

# VIDEO SECURITY 2017

SECURITY SOLUTIONS BY GRUNDIG







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#### 2 Megapixel Full HD Box IP-Camera ICR

- 2 Megapixel IP Camera with Full HD 1080P real time video
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- H.264 & MJPEG compression modes (max. 30/25 fps)
- SDHC memory card slot for alarm and schedule image recording
- Power Input AC24V/DC12V and PoE



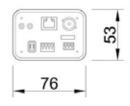


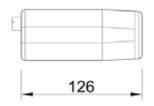






#### DIMENSIONS (mm)





#### **ACCESSORIES**



Image Sensor:	1/2.7" Progressive scan CMOS 2 Megapixel
Pixels - Total:	1920(H) x 1080(V)
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Sensitivity Colour:	0.5 Lux@F1.2 (IRE50), 0.2 Lux@F1.2 (IRE30)
Sensitivity B/W:	0.1 Lux@F1.2 (IRE50), 0.02 Lux@ F1.2 (IRE30)
Lens Mount:	C/CS mount with adaptor
Lens Drive Type:	Manual / DC auto iris
Shutter Speed:	1 ~ 1/10.000 sec
WDR:	Off/Low/Middle/High
BLC Back Light:	On/Off
Digital Noise Reduction:	On/off 2D/3D Noise Filter
Motion Detection:	On/ Off/ Sensitivity/ Area setting
Tampering Alarm:	On/Off
Privacy zones:	5 zones, rectangle
White Balance:	ATW, AWB, Manual, One Push
Digital Zoom:	Yes
Alarm Input/Output:	1/1
Web Browser:	MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari
Number of Clients:	Up to 20 simultaneously
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
Video Resolution:	1920x1080 (30/25fps), 1280x1024 (30/25fps), 1280x720 (30/25fps), 1024x768 (30/25fps), etc.
Video Streaming:	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG
Network Protocol:	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, UPnP, SMTP, ICMP, IGMP, SNMP, IEEE802.1x, QoS, ONVIF, FTP
Audio Input/Output:	Line In/Line Out (two way Audio)
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
Recording Types::	on Micro SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK) on NAS: Video (AVI)
Alarm Event:	Alarm Input, Motion Detection or Schedule: Image transfer or alarm message by FTP, Image transfer or alarm message by E-mail, recording on SD-card and enable alarm output
Audio Compression:	G.726, G.711
Audio Communication:	Bi-directional
LED Indicator:	Power, link, active
Video Outputs:	1Vpp, BNC
Input/Output sockets:	Video Out(BNC), Power(3-Pin Term), RJ-45, Micro SD Card Slot, Terminal 7-Pin (Alarm In 2-Pin, Alarm Out 2-Pin, RS485 2-Pin), Audio (2 mini Jack 3.5mm), Auto-Iris (4Pin)
Interfaces:	RS-485
PTZ Control:	Pan/Tilt/Zoom/Focus/Preset/Sequence, Pelco D/P
Firmware Upgrade:	Firmware upgrade by Web Browser
Configuration:	Upload & Download configuration on remote PC
Operating Temperature:	-10°C ~ +50°C
Humidity:	10 ~ 90% no condensation
Regulation:	CE, RoHS Compliant
Supply Voltage:	12 VDC / 24 VAC, PoE (IEEE 802.3af)
Dimensions (WxHxD):	76 x 53 x 126 mm - 2.99 x 2.09 x 4.96 ln:
Power Consumption (W):	4
Weight:	0.36 kg - 0.79 lbs

GCI-K1505B



#### 2 MP Full HD Box-IP-Kamera ICR WDR Ultra Low light

- 2 Megapixel IP Camera with Full HD 1080P real time video
- Ultra low light camera
- EXMOR™ sensor for low light sensitivity, XARINA™ DSP for advanced features
- Automatic Back-Focus adjustment: simplifies the lens setup
- WDR (Wide Dynamic Range) for extreme backlight situations
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- ONVIF Profile S compliant for maximum compatibility with VMS
- SDHC memory card slot for alarm and schedule image recording







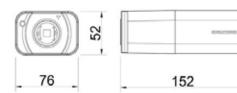








#### DIMENSIONS (mm)



#### **ACCESSORIES**



Image Sensor:	1/1.9" ExmorRS™ Sensor
Pixels - Total:	1920(H) x 1080(V)
Digital Signal Processor (DSP):	Sony Xarina Solution
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Sensitivity Colour:	0.01 Lux@F1.5(IRE30), 0.05 Lux@F1.5(IRE50)
Sensitivity B/W:	0.0005 Lux@F1.5 (IRE30), 0.005 Lux@ F1.5 (IRE50)
Lens Mount:	C/CS mount with adaptor
Lens Drive Type:	Manual / DC auto iris
BLC Back Light:	On/Off
WDR:	120dB
Focus Adjustment:	Auto back focus
Digital Zoom:	Off/2 ~ 16x
Shutter Speed:	1 ~ 1/10.000 sec
AGC:	Off, 3~72dB
White Balance:	AWB, Auto no boundery, ATW, Indoor, Outdoor, Manual
Digital Noise Reduction:	3DNR: Off, Low, Middle, High, 2DNR: On/Off
Digital Image Stabilization (DIS):	Off/On
Alarm Input/Output:	1/1
Alarm Trigger:	Alarm Input, Motion Detection, Network Failure detection, Tampering Alarm, Time lapse, Manual Trigger, Face detection, Audio detection
Schedule:	Single Day or Week, Time (Start, Duration), DAY or NIGHT Mode
	Enable Alarm Output, Send message by FTP or/and Email, Upload image
Alarm Event:	by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Off, Record to Micro SD Card
Camera ID:	15 character, 1 lines
Reverse:	Normal, Flip, Mirror, Vertical Mode (90°clockwise,90° counter clockwise), 180°
Privacy zones:	5 zones, rectangle
Motion Detection:	On/ Off/ Sensitivity/ Area setting
Tampering Alarm:	On/Off
OSD:	Yes, multi language
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
Recording Types::	on micro SD/SDHC CARD:Single Image Recording (JPEG)Video(AVI)on NAS: Video(AVI)
LED Indicator:	Power, link, active
Input/Output sockets:	Video Out(BNC), Power(3-Pin Term), RJ-45, Micro SD Card Slot, Terminal 7-Pin (Alarm In 2-Pin, Alarm Out 2-Pin, RS485 2-Pin), Audio (2 mini Jack 3.5mm), Auto-Iris (4Pin)
Network Interface:	1x 10/100 Base T/TX (RJ-45)
Video Outputs:	1Vpp, BNC
Web Browser:	MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Number of Clients:	Up to 20 simultaneously
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
Video Streaming:	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG
Video Resolution:	Full HD 1080p/ SXGA/ HD 720p/ XGA/SVGA/ D1/ VGA/ CIF/ QCIF
Frame Rate (Max@Resolution):	50/60fps@2MP, 25/30fps@2MP, 50/60fps@1,3MP, 25/30fps@1,3MP, etc.
Network Protocol:	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, UPnP, SMTP, ICMP, IGMP, SNMP, IEEE802.1x, QoS, ONVIF, ARP
Audio Input/Output:	Line In/Line Out (two way Audio)
Audio Compression:	G.711, G.726
Audio Communication:	Bi-directional
ONVIF compliant:	Profile S
Interfaces:	RS-485
PTZ Control:	Pan/Tilt/Zoom/Focus/Preset/Sequence, Pelco D/P
Firmware Upgrade:	Firmware upgrade by Web Browser
Configuration:	Upload & Download configuration on remote PC
Regulation:	CE, RoHS Compliant
Humidity:	10 ~ 90% no condensation
Operating Temperature:	-10°C ~ +50°C
Supply Voltage:	12 VDC / 24 VAC, PoE (IEEE 802.3af)
Dimensions ( W x H x D):	76 x 52 x 152 mm - 2.99 x 2.05 x 5.98 ln:
Power Consumption (W):	9
Weight:	0.36 kg - 0.79 lbs



#### 2 Megapixel Full HD Box IP-Camera ICR

- 2 Megapixel IP Camera with Full HD 1080P real time video
- STARVIS sensor for low light sensitivity, XARINA  $^{\text{TM}}$  DSP for advanced
- WDR (Wide Dynamic Range) for extreme backlight situations
- High frame rate of 60 frames per second at Full HD resolution (1080p)
- SDHC memory card slot for alarm and schedule image recording
- Power Input AC24V/DC12V and PoE





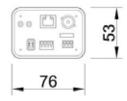


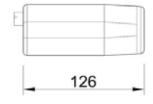






#### **DIMENSIONS (mm)**





#### **ACCESSORIES**



	4 /0 0 W 0 1 4 0 0 0 0 0 T 1 D 1 1 0 D 0 1 1 0
Image Sensor:	1/2.8" CMOS Sony STARVIS Progressive Scan
Pixels - Total:	1920(H) x 1080(V)
Digital Signal Processor (DSP):	Sony Xarina Solution
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Sensitivity Colour:	0.01 lux @ F1.2 (IRE30)
Sensitivity B/W:	0.1 Lux@F1.2 (IRE50), 0.02 Lux@ F1.2 (IRE30)
Lens Mount:	C/CS mount
Lens Drive Type:	DC Auto Iris, Manual Iris
Shutter Speed:	1 ~ 1/10.000 sec
BLC Back Light:	On/Off
WDR:	120dB
Digital Noise Reduction:	3DNR: Off, Low, Middle, High, 2DNR: On/Off
Digital Image Stabilization (DIS):	Off/On
White Balance:	AWB, Auto no boundery,ATW, Indoor, Outdoor, Manual
Motion Detection:	On/ Off/ Sensitivity/ Area setting
Privacy zones:	5 zones, rectangle
Tampering Alarm:	On/Off
Camera ID:	20 character 1/1
Alarm Input/Output:	MS Internet Explorer 6.0 (or higher), Firefox, Google
Web Browser:	Chrome, Safari
Number of Clients:	Up to 20 simultaneously
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
Video Streaming:	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG
Video Resolution:	Full HD 1080p/ SXGA/ HD 720p/ XGA/SVGA/ D1/ VGA/ CIF/ QCIF
Frame Rate (Max@Resolution):	50/60fps@2MP, 25/30fps@2MP, 50/60fps@1,3MP, 25/30fps@1,3MP, etc.
Network Protocol:	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, UPnP, SMTP, ICMP, IGMP, SNMP, IEEE802.1x, QoS, ONVIF, FTP
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
Recording Types::	on Micro SD/SDHC CARD Single Image Recording (JPEG)Video(AVI)
Alarm Event:	Alarm Input, Motion Detection or Schedule: Image transfer or alarm message by FTP, Image transfer or alarm message by E-mail, recording on SD-card and enable alarm output
Audio Input/Output:	Line In/Line Out (two way Audio)
Audio Compression:	G.711, G.726
LED Indicator:	Power, link, active
Audio Communication:	Bi-directional
Video Outputs:	1Vpp, BNC
Input/Output sockets:	Video Out(BNC), Power(3-Pin Term), RJ-45, Micro SD Card Slot, Terminal 7-Pin (Alarm In 2-Pin, Alarm Out 2-Pin, RS485 2-Pin), Audio (2 mini Jack 3.5mm), Auto-Iris (4Pin)
Interfaces:	RS-485
PTZ Control:	Pan/Tilt/Zoom/Focus/Preset/Sequence, Pelco D/P
Firmware Upgrade:	Firmware upgrade by Web Browser
Configuration:	Upload & Download configuration on remote PC
Regulation:	CE, RoHS Compliant
Humidity:	10 ~ 90% no condensation
Operating Temperature:	-10°C ~ +60°C
Supply Voltage:	12 VDC / 24 VAC, PoE (IEEE 802.3af)
Dimensions (W x H x D):	76 x 53 x 126 mm - 2.99 x 2.09 x 4.96 ln:
Power Consumption (W):	4
Weight:	0.36 kg - 0.79 lbs



GCI-K3505B

#### 2 Megapixel Full HD Box IP-Camera ICR

- 2 Megapixel IP Camera with Full HD 1080P real time video
- Automatic Back-Focus adjustment: simplifies the lens setup
- STARVIS sensor for low light sensitivity, XARINATM DSP for advanced features [COPY]
- WDR (Wide Dynamic Range) for extreme backlight situations
- High frame rate of 60 frames per second at Full HD resolution
- Power Input AC24V/DC12V and PoE





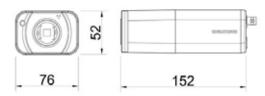








#### DIMENSIONS (mm)



#### **ACCESSORIES**



Image Sensor:	1/2.8" CMOS Sony STARVIS Progressive Scan
Pixels - Total:	1920(H) x 1080(V)
Digital Signal Processor (DSP):	Sony Xarina Solution
Sensitivity Colour:	0.01 lux @ F1.2 (IRE30)
Sensitivity B/W:	0.001 lux @ F1.2 (IRE30)
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Lens Mount:	C/CS mount
Lens Drive Type:	Manual / DC auto iris
Focus Adjustment:	Auto back focus
Digital Zoom:	Off/2 ~ 16x
Shutter Speed:	1 ~ 1/10.000 sec
AGC:	Off, 3~72dB
BLC Back Light:	On/Off
WDR:	
	120dB
White Balance:	AWB, Auto no boundery,ATW, Indoor, Outdoor, Manual
Privacy zones:	5 zones, rectangle
Motion Detection:	On/ Off/ Sensitivity/ Area setting
Digital Noise Reduction:	3DNR: Off, Low, Middle, High, 2DNR: On/Off
gital Image Stabilization (DIS):	Off/On
Tampering Alarm:	On/Off
Reverse:	Normal, Flip, Mirror, Vertical Mode [90°clockwise,90° counter clockwise 180°
Camera ID:	15 character, 1 lines
OSD:	Yes, multi language
Alarm Event:	Enable Alarm Output, Send message by FTP or/and Email, Upload image by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Off Record to Micro SD Card
Alarm Input/Output:	1/1
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat[fat32] format)
Recording Types::	on micro SD/SDHC CARD:Single Image Recording (JPEG)Video(AVI)on NA Video(AVI)
LED Indicator:	Power, link, active
Input/Output sockets:	Video Out(BNC), Power(3-Pin Term), RJ-45, Micro SD Card Slot, Termina 7-Pin (Alarm In 2-Pin, Alarm Out 2-Pin, RS485 2-Pin), Audio (2 mini Jack 3.5mm), Auto-Iris (I4Pin)
Network Interface:	1x 10/100 Base T/TX (RJ-45)
Video Outputs:	1Vpp, BNC
Interfaces:	RS-485
Web Browser:	MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari
PTZ Control:	Pan/Tilt/Zoom/Focus/Preset/Sequence, Pelco D/P
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Number of Clients:	Up to 20 simultaneously
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
Video Streaming:	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG
Video Resolution:	Full HD 1080p/ SXGA/ HD 720p/ XGA/SVGA/ D1/ VGA/ CIF/ QCIF
rame Rate (Max@Resolution):	50/60fps@2MP, 25/30fps@2MP, 50/60fps@1,3MP, 25/30fps@1,3MP, etc
Network Protocol:	IPV4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, UPPP, SMTP, ICMP, IGMP, SNMP, IEEE802.1x, QoS, ONVIF, FTP
Audio Input/Output:	Line In/Line Out (two way Audio)
Audio Compression:	G.711, G.726
Audio Communication:	Bi-directional
ONVIF compliant:	Profile S
Firmware Upgrade:	Firmware upgrade by Web Browser
Configuration:	Over Web Browser, Upload & Download configuration file
	10 ~ 90% no condensation
Humidity:	
Regulation:	CE, RoHS Compliant
Operating Temperature:	-20°C ~ +60°C
Supply Voltage:	12 VDC / 24 VAC, PoE (IEEE 802.3af)
Dimensions ( W x H x D):	76 x 52 x 152 mm - 2.99 x 2.05 x 5.98 ln:
Power Consumption (W):	9.5 0.4 kg - 0.88 lbs



#### 2 Megapixel Full HD 18x Zoom Box IP-Camera ICR WDR<sup>\*</sup>

- 18x Auto Focus Zoom lens
- $\bullet~$  EXMORTM sensor for low light sensitivity, XARINATM DSP for advanced features
- High frame rate of 60 frames per second at Full HD resolution
- WDR (Wide Dynamic Range) for extreme backlight situations
- Micro SD/SDHC memory card slot for alarm image recording
- RS485 Interface for controlling Pan and Tilt Units







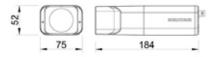








#### DIMENSIONS (mm)



#### **ACCESSORIES**



Image Sensor:	1/2.8" CMOS Sony Exmor™ Progressive Scan
Pixels - Total: Digital Signal Processor	1920(H) x 1080(V)
(DSP):	Sony Xarina Solution
Col/B:	On/Off/Auto/Ext, IR-cut filter removable (ICR)
Sensitivity Colour:	0.05 Lux@F1.6 (IRE50)
Sensitivity B/W: Lens Drive Type:	0.004 lux @ F1.6 (50IRE) Auto Iris (DC), Motorized Zoom & Focus
Lens Focal Length:	4.7 ~ 84.6 mm
Horizontal Viewing Angle:	55.2° (Wide) ~ 3.2° (Tele)
0 1 17 0 1	
Optical Zoom Ratio: Shutter Speed:	18x 1 ~ 1/10.000 sec
Focus Adjustment:	Auto, Manual
BLC Back Light:	On/Off
Wide Dynamic Range:	120 dB
Privacy zones:	5 zones, rectangle
Motion Detection:	On/ Off/ Sensitivity/ Area setting
Region of Interest: White Balance:	4 Areas AWB, Auto no boundery,ATW, Indoor, Outdoor, Manual
Digital Noise Reduction:	3DNR: Off, Low, Middle, High, 2DNR: On/Off
Digital Image Stabilization (DIS):	Off/On
Alarm Trigger:	Motion detection, Tampering, Network disconnect,
	Alarm Input, Audio detection, Schedule Image transfer or alarm message by FTP, Image
Alarm Event:	transfer or alarm message by E-mail, recording on SD-card and enable alarm output
Alarm Input/Output:	1/1 Normal, Flip, Mirror, Vertical Mode (90°clockwise,90°
Reverse:	counter clockwise), 180°
Camera ID:	20 character
Network Interface:	1 x 10/100/1000Mbps PoE port, RJ-45
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG  Quad stream: 4xH.264 or 3xH.264 MJPEG Triple:
Video Streaming:	3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG
Video Resolution:	Full HD 1080p/ SXGA/ HD 720p/ XGA/SVGA/ D1/ VGA/ CIF/ QCIF
Frame Rate (Max@Resolution):	50/60fps@2MP, 25/30fps@2MP, 50/60fps@1,3MP, 25/30fps@1,3MP, etc.
Network Protocol:	DHCP, TCP/IP, RTP, PPPoE, HTTP, RTSP, UPnP, UDP, SMTP, FTP, SNMP, HTTPS, IPv4/IPv6, IGMP, ONVIF, QoS, IEEE 802.1 X, ICMP
Access protection:	By log-in and Password, IP filter, IEEE802.1x
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
Recording Types::	on Micro SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK) on NAS: Video (AVI)
Audio Input/Output:	Line In/Line Out (two way Audio)
Audio Communication:	Bi-directional
Audio Compression: Interfaces:	G.711/G.726 ADPCM/AAC RS-485
PTZ Control:	Pan/Tilt/Zoom/Focus/Preset/Sequence, Pelco D/P
Web Browser:	MS Internet Explorer 6.0 (or higher), Mozilla Firefox, Apple Safari
Number of Clients:	Up to 20 simultaneously
ONVIF compliant:	Profile S
Firmware Upgrade:	Firmware upgrade by Web Browser
Configuration:	Over Web Browser, Upload & Download configuration file
Operating Temperature:	-20°C ~ +55°C
Regulation: Supply Voltage:	CE, RoHS Compliant PoE (IEEE 802.3af), 12 VDC / 24 VAC
Dimensions ( W x H x D):	184 x 81 x 53 mm - 7.24 x 3.19 x 2.09 ln:
Power Consumption (W):	9
Weight:	0.45 kg - 0.99 lbs



#### 3 Megapixel Real Time IP-Camera ICR WDR

- 3 Megapixel IP Camera with real time video streaming
- Automatic Back-Focus adjustment: simplifies the lens setup
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- P-Iris:system to give precise control over the iris opening
- WDR (Wide Dynamic Range) for extreme backlight situations
- ONVIF protocol support

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- SDHC memory card slot for alarm and schedule image recording
- Bidirectional Audio Support







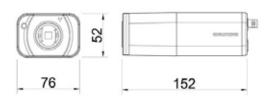








#### DIMENSIONS (mm)



#### **ACCESSORIES**



	4/9.00.0 5 70.00.00.00
Image Sensor:	1/2.8" Sony Exmor™ CMOS, 3 Megapixel
Pixels - Total:	2048 (H) x 1536 (V)
Sensitivity Colour:	0.5 Lux@F1.2 (IRE50), 0.2 Lux@F1.2 (IRE30)
Sensitivity B/W:	0.1 Lux@F1.2 (IRE50), 0.02 Lux@ F1.2 (IRE30)
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Lens Mount:	C/CS mount
Focus Adjustment:	Auto back focus
Lens Drive Type:	P-Iris
Digital Zoom:	On/Off
Shutter Speed:	1 ~ 1/10.000 sec
WDR:	120dB
BLC Back Light:	On/Off
White Balance:	ATW, AWB, Manual, One Push
Digital Noise Reduction:	2DNR/3DNR: Off/Low/Mid/High
Motion Detection:	On/ Off/ Sensitivity/ Area setting
Network failure detection:	On, Off, by Schedule
Tampering Alarm:	On, Off, by Schedule
Time Lapse:	Off, On (60~3600s)
Manual Trigger:	On, Off
Schedule:	Single Day or Week, Time (Start, Duration), DAY or NIGHT Mode
Reverse:	Normal, Flip, Mirror, Vertical Mode (90°clockwise,90° counter clockwise), 180°
Privacy zones:	5 zones, rectangle
Network Interface:	1x 10/100 Base T/TX (RJ-45)
Alarm Event:	Enable Alarm Output, Send message by FTP or/and Email, Upload image by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Off, Record Video Clip
Audio detection:	Off, On
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
ONVIF compliant:	Profile S
Video Streaming:	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG
Video Resolution:	2048x1536 (30/25fps), 1920x1080 (30/25fps), 1280x1024 (30/25fps), 1280x720 (30/25fps),etc.
Streaming Method:	Unicast, Multicast
Audio Input/Output:	Line In/Line Out (two way Audio)
Audio Compression:	G.711, G.726
Audio Communication:	Bi-directional
Alarm Input/Output:	1/1
Alarm Inputs:	1x (5V, 10K0hms): On, Off, by Schedule
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Number of Clients:	Up to 20 simultaneously
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
Recording Types::	on Micro SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK) on NAS: Video (AVI)
NAS Recording::	Yes
Web Browser: Network Protocol:	MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, UPnP,
Firmware Upgrade:	SMTP, ICMP, IGMP, SNMP, IEEE802.1x, QoS, ONVIF, FTP Firmware upgrade by Web Browser or Grundig finder ver.1.17
Configuration:	Over Remote PC
fulti Language Webpage::	English, German, French, Italian, Russian, Turkish
LED Indicator:	Power, link, active
Interfaces:	RS-485
PTZ Control:	Pan/Tilt/Zoom/Focus/Preset/Sequence, Pelco D/P
Video Outputs:	1Vpp, BNC
Input/Output sockets:	Video OUT(BNC), Power(DC Jack), RJ-45, Micro SD Card Slot, Alarm Terminal 4-Pin(Alarm In 2-Pin, Alarm Out 2-Pin), Audio (2 mini Jack 3.5mm)
Operating Temperature:	-20°C ~ +60°C
Operating Humidity:	10% ~ 90%, non-condensing
Regulation:	CE, RoHS Compliant
=	PoE (IEEE 802.3af), 12 VDC / 24 VAC
Supply voltage:	. 52 (.222 002.0df), 12 +DO / 24 YAO
Supply Voltage: Dimensions ( W x H x D):	76 x 52 x 152 mm - 2 99 x 2 05 x 5 98 ln·
Dimensions (W x H x D):  Power Consumption (W):	76 x 52 x 152 mm - 2.99 x 2.05 x 5.98 ln: 4



#### 8 MP Ultra HD Auto-Back-Focus Box IP-Camera **ICR**

- 4K Resolution for super detailed images
- Automatic Back-Focus adjustment: simplifies the lens setup
- Day/Night feature with IR cut filter removable, for higher sensitivity
- ONVIF Profile S compliant for maximum compatibility with VMS
- SD/SDHC/SDXC memory card slot for alarm and schedule image recording
- Bidirectional Audio Support



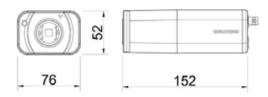








#### DIMENSIONS (mm)



#### **ACCESSORIES**



Image Sensor:	1/1.7" Sony Progressive CMOS 12 MP
Pixels - Total:	3840(H) x 2160(V)
Sensitivity Colour:	0.5 Lux@F1.2 (IRE50), 0.2 Lux@F1.2 (IRE30)
Sensitivity B/W:	0.1 Lux@F1.2 (IRE50), 0.02 Lux@ F1.2 (IRE30)
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Lens Mount:	C/CS mount
Lens Drive Type:	Manual / DC auto iris
Focus Adjustment:	Auto back focus
WDR:	72dB (Digital Wide Dynamic Range) Off/Low/Middle/High
Digital Zoom:	Off/1 ~ 10x
Shutter Speed:	1 ~ 1/10.000 sec
BLC Back Light:	On/Off
White Balance:	ATW, AWB, Manual, One Push
Digital Noise Reduction:	2DNR: ON/OFF, 3DNR/ColorNR: Off/Low/Mid/High
Alarm Trigger:	Alarm Input, Motion Detection, Network Failure detection, Tampering Alarm, Time lapse, Manual Trigger, Audio detection
Schedule:	Daily, Weekly, Start Time and Duration
Alarm Event:	Alarm Input, Motion Detection or Schedule: Image transfer or alarm message by FTP, Image transfer or alarm message by E-mail, recording on SD-card and enable alarm output
Privacy Zone Type:	rectangle, Color selection
Video Text Overlay:	Text string (15 character), Subtitel (5 lines @ 16 character)
Reverse:	Normal, Flip, Mirror, Vertical Mode (90° clockwise, 90° counter clockwise), 180°
Privacy zones:	5 zones (rectangle/color selection)
Motion Detection:	On/ Off/ Sensitivity/ Area setting
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
Video Resolution:  ONVIF compliant:	8MP(3840x2160)/5,7MP(3200x1800)/Full HD 1080p/SXGA/HD720/XGA/SVGA/4CIF/VGA/CIF/QVGA Profile S
•	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264
Video Streaming: Frame Rate (Max@Resolution):	MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG 25fps@8MP, 25fps@6MP, 25fps@5MP, 25fps@3MP, 25fps@2MP,
_	25fps@1,3MP, etc.
Streaming Method:	Unicast, Multicast
Audio Compression:	G.711, G.726 Bi-directional
Audio Communication: Audio Input/Output:	Line In/Line Out (two way Audio)
Alarm Input/Output:	1/1
Number of Clients:	Up to 20 simultaneously
NAS Recording::	Yes
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
Recording Types::	on Micro SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK) on NAS: Video (AVI)
Web Browser:	MS Internet Explorer 7.0 (or higher)
Network Protocol:	ARP, DHCP, FTP, HTTP, HTTPS, ICMP, IEEE 802.1 X, IGMP, IPv4/IPv6, ONVIF, PPPoE, QoS, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP
Security:	IP address filtering, User access log, IEEE-802.1x
Firmware Upgrade:	by Web Browser or Grundig finder (from ver.1.17)
Configuration:	Upload & Download configuration on remote PC
Multi Language Webpage::	English, German, French, Italian, Russian
LED Indicator:	Power, link, active 1Vpp, BNC
Video Outputs: Serial Protocol:	Pelco D, Pelco P
Input/Output sockets:	Video OUT(BNC), Power(DC Jack with adapter 2PIN for 24VAC), RJ-45, Micro SD Card Slot, Alarm Terminal 4-Pin(Alarm In 2-Pin, Alarm Out 2-Pin), Audio (2 mini Jack 3.5mm)
Operating Humidity:	10% ~ 90%, non-condensing
Regulation:	CE, RoHS Compliant
Operating Temperature:	-10°C ~ +50°C
Supply Voltage:	PoE (IEEE 802.3af), 12 VDC / 24 VAC
Dimensions ( W x H x D):	76 x 52 x 152 mm - 2.99 x 2.05 x 5.98 ln:
Power Consumption (W):	4
Weight:	0.36 kg - 0.79 lbs



GCI-K1627D

#### 2 MP Full HD Indoor Dome IP-Camera 2.8~12mm ICR IR LED WDR

- 2 Megapixel IP Camera with Full HD 1080P real time video
- STARVIS sensor for low light sensitivity, XARINATM DSP for advanced features
- WDR (Wide Dynamic Range) for extreme backlight situations
- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- 3 Axis Gimbal, to mount on Wall or Ceiling
- ONVIF Profile S compliant for maximum compatibility with VMS















#### DIMENSIONS (mm)





#### **ACCESSORIES**



Image Sensor:	1/2.8" CMOS Sony STARVIS Progressive Scan
Pixels - Total:	1920(H) x 1080(V)
Digital Signal Processor (DSP):	Sony Xarina Solution
Sensitivity Colour:	0.03 lux @ F1.4 (IRE30)
Sensitivity B/W:	0.003 lux @ F1.4 (IRE30)
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Lens Focal Length:	2.8 ~ 12 mm
Horizontal Viewing Angle:	98° (Wide) ~ 36° (Tele)
Digital Zoom:	Off/2 ~ 16x
Iris F-Number:	F= 1.4 ~ 360
Lens Drive Type:	Auto Iris (DC)
Focus Adjustment:	Manual
IR LED: Max. IR Distance:	4 x 95° and 2 x 60° illumination angle up to 25m
Max. IR Distance: Wavelength:	up to 25m 850nm
Shutter Speed:	1 ~ 1/10.000 sec
BLC Back Light:	On/Off
WDR:	120dB
White Balance:	AWB, Auto no boundery,ATW, Indoor, Outdoor, Manual
Digital Noise Reduction:	2DNR/3DNR: Off/Low/Mid/High
Digital Image Stabilization (DIS):	Off/On
,	
Alarm Trigger:	Alarm Input, Manual Trigger, Motion detection, Network disconnect, Tampering, Time lapse
Schedule:	Single Day or Week, Time (Start, Duration), DAY or NIGHT Mode
Alarm Input/Output:	1/1  Enable Alarm Output Send message by ETP or/and Email Unlead image
Alarm Event:	Enable Alarm Output, Send message by FTP or/and Email, Upload image by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Off, Record to Micro SD Card
Motion Detection:	On, Off, by Schedule
Tampering Alarm:	On/Off
Time Lapse:	Off, On (60~3600s)
Manual Trigger:	On, Off
Camera ID:	20 character
Reverse:	Normal, Flip, Mirror, Vertical Mode, 180°
Privacy zones:	5 zones, rectangle
Network Interface:	1x 10/100 Base T/TX (RJ-45) H.264 (MPEG-4Part 10/AVC), MJPEG
Video Compression: Privacy Zone Type:	H.264 (MPEG-4Part 10/AVC), MJPEG rectangle, Color selection
ONVIF compliant:	rectangle, Color selection  Profile S
·	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264
Video Streaming:	MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG
Video Resolution:	Full HD 1080p/ SXGA/ HD 720p/ XGA/SVGA/ D1/ VGA/ CIF/ QCIF
Frame Rate (Max@Resolution):	50/60fps@2MP, 25/30fps@2MP, 50/60fps@1,3MP, 25/30fps@1,3MP, etc.
Streaming Method:	Unicast, Multicast
Audio Input/Output: Audio Communication:	Line In/Line Out (two way Audio) Bi-directional
Audio Communication: Access protection:	Bi-directional By log-in and Password, IP filter, IEEE802.1x
Access protection: Number of Clients:	By log-in and Password, IP filter, IEEE802.1x  Up to 20 simultaneously
SD memory:	Up to 2U simultaneously supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
Recording Types::	on Micro SD/SDHC CARD Single Image Recording (JPEG)Video(AVI)
Web Browser:	MS Internet Explorer 6.0 (or higher)
Network Protocol:	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, UPnP, SMTP, ICMP, IGMP, SNMP, IEEE802.1x, QoS, ONVIF, FTP, ARP
Firmware Upgrade:	by Web Browser or Grundig finder (from ver.1.17)
Configuration:	by web interface
Multi Language Webpage::	English, German, French, Italian, Russian, Turkish
LED Indicator:	Power, link, active
Video Outputs:	1Vpp, BNC
Input/Output sockets:	Power (Terminal 3-Pin), RJ-45, Micro SD Card Slot, 8-Pin Terminal (4-Pin Alarm IN/OUT), Audio IN/OUT (4-Pin), Video Output
Regulation:	CE, RoHS Compliant
Humidity:	10 ~ 90% no condensation -10°C ~ +50°C
Operating Temperature: Supply Voltage:	-10°C ~ +50°C 12 VDC / 24 VAC, PoE (IEEE 802.3af)
Supply voltage:	IZ TOO / ZT THO, I UE HELL OUZ.JdH
Power Consumption (W)	11 (LED ON)
Power Consumption (W): Weight:	11 (LED 0N)
•	



#### 2 Megapixel Full HD Indoor Dome IP-Camera 3~9mm AFZ Modul P-Iris ICR IR LED WDR

- 2 Megapixel IP Camera with Full HD 1080P real time video
- STARVIS sensor for low light sensitivity, XARINATM DSP for advanced features
- P-Iris:system to give precise control over the iris opening
- WDR (Wide Dynamic Range) for extreme backlight situations
- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- 3 Axis Gimbal, to mount on Wall or Ceiling















#### DIMENSIONS (mm)





#### **ACCESSORIES**



	1/2.0" CMOC C CTADVIC D
Image Sensor:	1/2.8" CMOS Sony STARVIS Progressive Scan
Pixels - Total: Digital Signal Processor (DSP):	1920(H) x 1080(V) Sony Xarina Solution
Sensitivity Colour:	0.05 Lux@F1.3 (50IRE)
Sensitivity B/W:	0.005 Lux @ F1.3 (50IRE)
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Lens Focal Length:	3 ~ 9 mm
Horizontal Viewing Angle:	107° (Wide) ~ 36° (Tele)
Optical Zoom Ratio:	x 3
Digital Zoom:	Off/2 ~ 16x
Digital Noise Reduction:	2DNR/3DNR: Off/Low/Mid/High
Digital Image Stabilization (DIS):	Off/On
Iris F-Number:	F= 1.2 ~ 360
Lens Drive Type:	Tamron® Auto-Focus-Zoom Module, P-Iris
Focus Adjustment:	Auto, Manual
IR LED:	6 pcs., 130° illumination angle
Max. IR Distance:	up to 25m 850nm
Wavelength:	850nm 1 ~ 1/10.000 sec
Shutter Speed: BLC Back Light:	0n/Off
WDR:	120dB
White Balance:	AWB, Auto no boundery,ATW, Indoor, Outdoor, Manual
Motion Detection:	On, Off, by Schedule
Alarm Input:	On, Off, by Schedule
Tampering Alarm:	On, Off, by Schedule
Time Lapse:	Off, On (60~3600s)
Manual Trigger:	On, Off
Schedule:	Single Day or Week, Time (Start, Duration), DAY or NIGHT Mode
	Alarm Input, Motion Detection or Schedule: Image Transfer or Alarm
Alarm Event:	Message by FTP, Image Transfer or Alarm Message by E-mail, Recording on SD-Card, enable Alarm Output and send HTTP Notification
Camera ID:	15 character, 1 lines
Reverse:	Normal, Flip, Mirror, Vertical Mode, 180°
Privacy zones:	5 zones, rectangle
Network Interface:	1x 10/100 Base T/TX (RJ-45)
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
ONVIF compliant:	Profile S
Video Streaming:	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264
Video Resolution:	MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG Full HD 1080p/ SXGA/ HD 720p/ XGA/SVGA/ D1/ VGA/ CIF/ QCIF
Frame Rate (Max@Resolution):	50/60fps@2MP, 25/30fps@2MP, 50/60fps@1,3MP, 25/30fps@1,3MP, etc.
Streaming Method:	Unicast, Multicast
Audio Input/Output:	Line In/Line Out (two way Audio)
Audio Compression:	G.711, G.726
Audio Communication:	Bi-directional
Alarm Input/Output:	1/1
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Number of Clients:	Up to 20 simultaneously
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32)
•	format) on Micro SD/SDHC/SDXC CARD Single Image Recording (JPEG)Video(AVI,
Recording Types::	LCK)
Video enhancement:	3D DNR, AGC, Back Light Compensation (BLC), Digital Image Stabilization (DIS)
Web Browser:	MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari,
Network Protocol:	Access over Mobile Devices  IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, UPnP,  SMTP, ICMP, IGMP, SNMP, IEEE802.1x, QoS, ONVIF, FTP, ARP
Firmware Upgrade:	by Web Browser or Grundig finder (from ver.1.17)
Configuration:	by web interface
Multi Language Webpage::	English, German, French, Italian, Russian, Turkish
LED Indicator:	Power, link, active
Video Outputs:	1Vpp, BNC
Input/Output sockets:	Power (Terminal 3-Pin), RJ-45, Micro SD Card Slot, 8-Pin Terminal (4-Pin Alarm IN/OUT), Audio IN/OUT (4-Pin), Video Output
Operating Temperature:	-10°C ~ +50°C
Humidity:	10 ~ 90% no condensation
Regulation:	CE, RoHS Compliant
Supply Voltage:	12 VDC / 24 VAC, PoE (IEEE 802.3af)
Power Consumption (W):	12 (LED 0N)
Weight:	0.37 kg - 0.82 lbs
Dimensions:	123 x 107 mm - 4.84 x 4.21 ln

#### GCI-F4687D



#### 3MP Intelligent IP Indoor Fixed Dome Camera with IR WDR

- Motorized Vario Focal lens (Zoom & Focus), DC Iris
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- WDR (Wide Dynamic Range) for extreme backlight situations
- Embedded analytics: face detection, audio detection, advanced motion, tampering
- IR LEDs Integrated with Smart-IR Control
- ONVIF protocol support
- 3 Axis Gimbal, to mount on Wall or Ceiling

















Image Sensor:	1/2.8" Progressive Scan CMOS
Pixels - Total:	2048 (H) x 1536 (V)
Sensitivity Colour:	0.07 lux @ F1.2
Sensitivity B/W:	0.007 lux @ F1.4
Iris F-Number:	F= 1.2 ~ 360
Shutter Speed:	1/3 ~ 1/100,000 sec
Col/B:	Auto, IR-cut filter removable (ICR)
Lens Drive Type:	Motorized Zoom & Focus, DC Auto Iris
Lens Focal Length:	2.8 ~ 12 mm
Horizontal Viewing Angle:	94.5° (Wide) ~ 30.5° (Tele)
IR LED:	24 pcs.
Max. IR Distance:	up to 30m
BLC Back Light:	On/Off, Area
WDR:	120dB
Digital Noise Reduction:	3D-DNR, auto
Privacy zones:	4 zones, rectangle
Reverse:	Normal, Flip, Mirror, Vertical Mode, 180°
AGC:	Adjustable
White Balance:	ATW, AWB, Manual, One Push
Intelligent Video Analytics:	Tampering, Virtual line, Enter/Exit, Appear / Disappear, Audio detection, Face detection, network disconnect, IP address conflict, storage exception
Image settings:	Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser
OSD:	Yes
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
Video Streaming:	Triple Stream, H.264 and MJPEG
Video Resolution:	Main: 2048x1536 (45fps), 1920x1080 (50/60fps), 1280x960 (50/60fps), 1280x720 (50/60fps), Sub: 704x576(50/60fps), 640x480(50/60fps), 352x288(50/60fps), Third Stream: 2048x1536 (50/60fps), 1920x1080 (50/60fps), 1280x960 (50/60fps), 1280x720 (50/60fps), 704x5076 (50/60fps), 352x288(50/60fps)
Bit Rate:	Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps
Alarm Input/Output:	1/1
Audio Input/Output:	Line In/Line Out (two way Audio)
Audio Compression:	G.711 (64kbps) / G.726 (16kbps) / MP2L2
Audio Communication: Alarm Trigger:	Bi-directional  Motion detection, Tampering, Network disconnect, IP address conflict, Alarm Input, Storage error, Intelligent video analytics, Audio detection, Time lapse
Network Streaming:	TCP, UDP (Unicast, Multicast)
Network Protocol:	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI
System Compatibility:	ONVIF, PSIA, CGI
ONVIF compliant:	Profile S, Profile G
Web Browser:	MS Internet Explorer 7.0 (or higher)
Security:	HTTPS, IP FILTER, IEEE802.1x, Admin/User account
Firmware Upgrade:	Firmware upgrade by Web Browser
Video Outputs:	1Vpp/750hm, BNC cable
SD memory:	supports up to 128 GB capacity of micro SD memory
Recording:	H.264, Image Capture (Time-Lapse), JPEG format, Support NAS Server
Network Interface:	4 40/4
	1x 10/100 Base T/TX (RJ-45)
Protection Rating:	IK10
Protection Rating: Humidity:	IK10 less than 90%, non condensing
Protection Rating: Humidity: Operating Temperature:	IK10 less than 90%, non condensing -30°C ~ +60°C
Protection Rating: Humidity: Operating Temperature: Supply Voltage:	IK10 less than 90%, non condensing
Protection Rating: Humidity: Operating Temperature:	IK10 less than 90%, non condensing -30°C ~ +60°C
Protection Rating: Humidity: Operating Temperature: Supply Voltage:	IK10 less than 90%, non condensing -30°C ~ +60°C 12 VDC / PoE IEEE 802.3af



#### 6 MP Fisheye Dome IP-Camera with IR LED

- ImmerVision certified camera due to the Panomorph/Stereographic lens
- 360° field of view
- 6 Megapixels CMOS, Colour/B&W Camera
- Dewarping function Built-In
- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- SDHC memory card slot for alarm and schedule image recording
- Ceiling or Wall Mount possibility







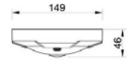








#### DIMENSIONS (mm)





#### **ACCESSORIES**

GAC-C2030A



Image Sensor:	1/1.8" Sony Progressive Scan CMOS, 6 megapixel
Pixels - Total:	3072 x 2048
Sensitivity Colour:	0.2 Lux @ F2.8
Sensitivity B/W:	0.02 Lux @ F2.8
Lens:	Stereo Projection 1/2.5" Panomorph 1.05 mm
Lens Focal Length: Iris F-Number:	F 2.8
IR LED:	6 pieces
Wavelength:	850nm
Max. IR Distance:	Ø 6 m @ 3m
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
WDR:	72dB (Digital Wide Dynamic Range) Off/Low/Middle/High
Viewing Angle:	180° @ Full Resolution
Lens Drive Type:	Fixed Iris
Digital Zoom: Shutter Speed:	Yes 1 ~ 1/10.000 sec
PTZ Control:	digital Pan/Tilt/Zoom
BLC Back Light:	On/Off
White Balance:	ATW, AWB, Manual
Privacy zones:	5 zones, rectangle
Schedule:	Daily, Weekly, Start Time and Duration
Motion Detection:	On, Off, by Schedule
Tampering Alarm:	On/Off
Manual Trigger:	On, Off
Time Lapse:	Off, On (60~3600s)  Normal, Flip, Mirror, Vertical Mode (90°clockwise,90° counter clockwise),
Reverse:	180°
Digital Noise Reduction:	2DNR: ON/OFF, 3DNR/ColorNR: Off/Low/Mid/High
Camera ID:	20 character
Alarm Event:	Enable Alarm Output, Send message by FTP or/and Email, Upload image by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Off, Record to Micro SD Card
Access protection:	By log-in and Password, IP filter, IEEE802.1x
IR Light Compensation:	0n, 0ff
Video Compression: Number of Clients:	H.264 (MPEG-4Part 10/AVC), MJPEG  Up to 20 simultaneously
ONVIF compliant:	Profile S
ImmerVison Enables:	RPL: B5SST
Video Streaming: Video Resolution:	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG Backend dewarp: 3072x2048,1920x1080, 1280x1024, 1280x702, 1024x768, 800x600, 720x576, 640x480, 352x288, 320x240, Front End Dewarp:
Frame Rate (Max@Resolution):	2048x2048, 2048x1536,1920x1080, 1600x1200,1408x1408, 960x960, 960x720, 960x544 25fps@6MP, 25fps@4MP, 25fps@3MP, 50fps@2MP, 50fps@1.3MP, etc.
Streaming Method:	Unicast, Multicast
Fisheye settings:	360°, 180°, Back- and Front End Dewarping
Frontend Dewarp function:	Yes, 2 Streams(4MP&2MP)
Back End Dewarp function:	Yes, 6MP, up to 4 Streams
Audio Compression:	G.711, G.726
Audio Communication:	Bi-directional
Audio Input/Output:	Line In/Line Out (two way Audio) 1/1
Alarm Input/Output: Web Browser:	MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari
Network Protocol:	DHCP, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4/IPv6, PPPoE, QoS, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
NAS Recording::	Yes
Recording Types:: LED Indicator:	on Micro SD/SDHC/SDXC CARD Single Image Recording (JPEG)Video(AVI, LCK) Power, link, active
Input/Output sockets:	Micro SD card slot, 2Pin Power Screw block, RJ45 Network connector, All in one cable: Power DC connector, 4 Pin Alarm I/O, Audio I/O 2 x mini jack plug
Firmware Upgrade:	Firmware upgrade by Web Browser
Configuration:	Upload & Download configuration on remote PC
Multi Language Webpage::	English, German, French, Italian, Russian, Turkish
Mount: Alarm Trigger:	Indoor Ceiling & Wall  Alarm Input, Motion Detection, Network Failure detection, Tampering
Video Text Overlay:	Alarm, Time lapse, Manual Trigger Text string (20 character), Subtitel (5 lines @ 16 character)
Regulation:	CE, RoHS Compliant
Operating Temperature:	-10°C ~ +50°C
Operating Humidity:	10% ~ 90%, non-condensing
Supply Voltage:	12 VDC / 24 VAC, PoE (IEEE 802.3af)
Power Consumption (W):	8
Weight:	0.35 kg - 0.77 lbs
Dimensions:	149 x 46 mm - 5.87 x 1.81 ln

## GRUDDIG

GCI-K1527V-1

#### 2 MP Full HD AV Dome IP-Camera 2.8~12mm ICR IR LED WDR

- STARVIS sensor for low light sensitivity, XARINATM DSP for advanced
- WDR (Wide Dynamic Range) for extreme backlight situations
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- ONVIF Profile S compliant for maximum compatibility with VMS
- 3 Way Axis Gimbal, wall mountable
- 0 Lux: Integrated EXTREM IR Powerful and wide angle LED Illuminator
- Easy cable management in the upper dome no external connection box necessary











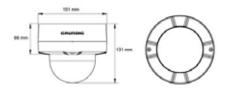








#### **DIMENSIONS (mm)**



#### **ACCESSORIES**

GBR-WA02 GHO-M028 GBR-IC02 GBR-CM02









GBR-AM02 GAC-B1514A GAC-B0214A







Image Sensor:	1/2.8" CMOS Sony STARVIS Progressive Scan
Pixels - Total:	1920(H) x 1080(V)
Digital Signal Processor (DSP):	Sony Xarina Solution
Sensitivity Colour:	0.03 lux @ F1.4 (IRE30)
Sensitivity B/W:	0.003 lux @ F1.4 (IRE30)
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Lens Focal Length:	2.8 ~ 12 mm
Horizontal Viewing Angle:	98° (Wide) ~ 36° (Tele)
Digital Zoom: Iris F-Number:	Off/2 ~ 16x F= 1.4
IR LED:	6 pcs., 95° illumination angle
Max. IR Distance:	30/45 m (according to scene reflexion)
Wavelength:	850nm
Shutter Speed:	1 ~ 1/10.000 sec
Digital Noise Reduction:	3DNR: Off, Low, Middle, High, 2DNR: On/Off
Digital Image Stabilization (DIS):	·
	Off/On
BLC Back Light:	On/Off
WDR:	120dB
Video enhancement:	3D DNR, AGC, Back Light Compensation (BLC), Digital Image Stabilization (DIS)
White Balance:	AWB, Auto no boundery, ATW, Indoor, Outdoor, Manual
Motion Detection:	On, Off, by Schedule
Tampering Alarm: Time Lapse:	On, Off, by Schedule Off, On (60~3600s)
Manual Trigger:	On, Off
Schedule:	Single Day or Week, Time (Start, Duration), DAY or NIGHT Mode
Alarm Event:	Enable Alarm Output, Send message by FTP or/and Email, Upload image by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Off, Record to Micro SD Card
Video Text Overlay:	15 character, 1 lines
Reverse:	Normal, Flip, Mirror, Vertical Mode, 180°
Privacy zones:	5 zones, rectangle
Network Interface:	1x 10/100/1000 Base T/TX (RJ-45)
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
ONVIF compliant:	Profile S
Video Streaming:  Video Resolution:	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG Full HD 1080p/ SXGA/ HD 720p/ XGA/SVGA/ D1/ VGA/ CIF/ QCIF
Frame Rate (Max@Resolution):	50/60fps@2MP, 25/30fps@2MP, 50/60fps@1,3MP, 25/30fps@1,3MP, etc.
Streaming Method:	Unicast, Multicast
Audio Compression:	G.711, G.726
Audio Communication:	Bi-directional
Audio Input/Output:	Line In/Line Out (two way Audio)
Alarm Input/Output:	1/1
Intelligent Video Analytics:	Face Detection, Motion Detection, Tampering
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Number of Clients:	Up to 20 simultaneously
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
Web Browser:	MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices
Network Protocol:	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, UPnP, SMTP, ICMP, IGMP, SNMP, IEEE802.1x, QoS, ONVIF, FTP, ARP
Firmware Upgrade:	by Web Browser or Grundig finder (from ver.1.17)
Configuration:	Over Remote PC
Multi Language Webpage::	English, German, French, Italian, Russian, Turkish
Video Outputs:	1x CVBS (1Vpp), BNC  1x RJ-45, 1x Video OUT (BNC), Power 4-Pin Terminal Block (2 Pin VDC, 2 Pin VAC), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PiN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN)
Protection Rating:	IK10, IP66
Operating Temperature:	-25°C ~ +55°C
Humidity:	10 ~ 90% no condensation
Regulation:	CE, RoHS Compliant
Supply Voltage:	PoE (IEEE 802.3af), 12 VDC / 24 VAC
Power Consumption (W):	8.1 (LED ON)
347 1 1 1	1 kg 2 2 lbg

1 kg - 2.2 lbs

151 mm - 5.94 In

Weight: Dimensions:



#### 2 MP Full HD AV Dome IP-Camera 3~9mm AFZ Modul P-Iris ICR IR LED WDR

- STARVIS sensor for low light sensitivity, XARINATM DSP for advanced features
- Tamron® Auto-Focus Module, Focal length 3-9 mm
- P-Iris:system to give precise control over the iris opening
- WDR (Wide Dynamic Range) for extreme backlight situations
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- 3 Way Axis Gimbal, wall mountable
- Easy cable management in the upper dome no external connection box necessary













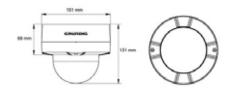








#### DIMENSIONS (mm)



#### **ACCESSORIES**

GBR-WA02 GHO-M028 GBR-IC02 GBR-CM02









GBR-AM02

GAC-B1514A GAC-B0214A







Image Sensor:	1/2.8" CMOS Sony STARVIS Progressive Scan
Pixels - Total:	1/2.6 CMOS SORY STARVIS Progressive Scali
Digital Signal Processor (DSP):	Sony Xarina Solution
Sensitivity Colour:	0.01 lux @ F1.3 (IRE30)
Sensitivity B/W:	0.0005 lux @ F1.3 (IRE30)
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Lens Focal Length:	3 ~ 9 mm
Horizontal Viewing Angle:	113° (Wide) ~ 36° (Tele)
Optical Zoom Ratio:	3x
Digital Zoom:	0ff/2 ~ 16x F= 1.3 ~ 360
Iris F-Number: Lens Drive Type:	F= 1.3 ~ 360  Tamron® Auto-Focus-Zoom Module, P-Iris
Focus Adjustment:	One-Shot AF / Manual / Zoom Trigger
IR LED:	8 pcs., 90° illumination angle
Max. IR Distance:	30/45 m (according to scene reflexion)
Wavelength:	850nm
Shutter Speed:	1 ~ 1/10.000 sec
BLC Back Light:	On/Off
WDR:	120dB
Video enhancement:	3D DNR, AGC, Back Light Compensation (BLC), Digital Image Stabilization (DIS)
White Balance:	AWB, Auto no boundery,ATW, Indoor, Outdoor, Manual
Digital Image Stabilization (DIS):	Off/On
Digital Noise Reduction:	3DNR: Off, Low, Middle, High, 2DNR: On/Off
Motion Detection:	On, Off, by Schedule
Alarm Input:	On, Off, by Schedule
Tampering Alarm:	On, Off, by Schedule
Time Lapse: Manual Trigger:	Off, On (60~3600s) On, Off
Schedule:	Single Day or Week, Time (Start, Duration), DAY or NIGHT Mode
Alarm Event:	Enable Alarm Output, Send message by FTP or/and Email, Upload image by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Off, Record to Micro SD Card
Video Text Overlay:	15 character, 1 lines
Reverse:	Normal, Flip, Mirror, Vertical Mode, 180°
Privacy zones:	5 zones, rectangle
Network Interface: Video Compression:	1x 10/100 Base T/TX (RJ-45) H.264 (MPEG-4Part 10/AVC), MJPEG
ONVIF compliant:	Profile S
Video Streaming:	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG
Video Resolution:	Full HD 1080p/ SXGA/ HD 720p/ XGA/SVGA/ D1/ VGA/ CIF/ QCIF
Frame Rate (Max@Resolution):	50/60fps@2MP, 25/30fps@2MP, 50/60fps@1,3MP, 25/30fps@1,3MP, etc.
Streaming Method:	Unicast, Multicast
Audio Compression:	G.711, G.726
Audio Communication:	Bi-directional
Audio Input/Output:	Line In/Line Out (two way Audio)
Alarm Input/Output: Intelligent Video Analytics:	1/1 Face Detection, Motion Detection, Tampering
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Number of Clients:	Up to 20 simultaneously
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
Web Browser:	MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices
Network Protocol:	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, UPnP, SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP
Firmware Upgrade:	by Web Browser or Grundig finder (from ver.1.17)  Over Remote PC
Configuration: Multi Language Webpage::	Uver Remote PC  English, German, French, Italian, Russian, Turkish
Video Outputs:	english, German, French, Italian, Russian, Turkish  1x CVBS (1Vpp), BNC
Input/Output sockets:	1x RJ-45, 1x Video OUT (BNC), Power 4-Pin Terminal Block (2 Pin VDC, 2 Pin VAC), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN)
Protection Rating:	IK10, IP66
Operating Temperature:	-25°C ~ +55°C
Humidity:	10 ~ 90% no condensation
Regulation:	CE, FCC, RoHS Compliant
Supply Voltage:	PoE (IEEE 802.3af), 12 VDC / 24 VAC
Power Consumption (W):	12.4 (LED ON)
Weight: Dimensions:	1 kg - 2.2 lbs 151 mm - 5.94 ln
Difficusions:	101 111111 - 0.74 111

#### GCI-F4687V



#### 3MP Intelligent IP Outdoor Fixed Dome Camera with IR WDR

- Motorized Vario Focal lens (Zoom & Focus), DC Iris
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- WDR (Wide Dynamic Range) for extreme backlight situations
- Embedded analytics: face detection, audio detection, advanced motion, tampering
- IR LEDs Integrated with Smart-IR Control
- ONVIF protocol support
- 3 Axis Gimbal, to mount on Wall or Ceiling





















	4/0.00 D
Image Sensor:	1/2.8" Progressive Scan CMOS
Pixels - Total: Sensitivity Colour:	2048 (H) x 1536 (V)
Sensitivity Cotour:	0.07 lux @ F1.2 0.007 lux @ F1.4
Shutter Speed:	1/3 ~ 1/100,000 sec
Col/B:	Auto, IR-cut filter removable (ICR)
Lens Drive Type:	Motorized Zoom & Focus, DC Auto Iris
Lens Focal Length:	2.8 ~ 12 mm
Iris F-Number:	F= 1.2 ~ 360
Horizontal Viewing Angle:	94.5° (Wide) ~ 30.5° (Tele)
IR LED:	28 pcs.
Max. IR Distance: BLC Back Light:	40 m On/Off, Area
WDR:	120dB
Digital Noise Reduction:	3D-DNR, auto
Privacy zones:	4 zones, rectangle
Reverse:	Normal, Flip, Mirror, Vertical Mode, 180°
AGC:	Adjustable
White Balance:	Auto/Off
Intelligent Video	Tampering, Virtual line, Enter/Exit, Appear / Disappear,
Analytics:	Audio detection, Face detection, network disconnect, IP address conflict, storage exception
	Rotate mode, saturation, brightness, contrast, grayscale
Image settings:	adjustable through client software or web browser
OSD:	Yes
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
Video Streaming:	Triple Stream, H.264 and MJPEG
Video Resolution:	Main: 2048x1536 [45fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576(50/60fps], 640x480(50/60fps), 352x288(50/60fps), Third Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288(50/60fps]
Bit Rate:	Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps
Audio Compression:	G.711 (64kbps) / G.726 (16kbps) / MP2L2
Audio Communication:	Bi-directional
Audio Input/Output:	Line In/Line Out (two way Audio)
Alarm Trigger:	Motion detection, Tampering, Network disconnect, IP address conflict, Alarm Input, Storage error, Intelligent video analytics, Audio detection, Time lapse
Alarm Input/Output:	1/1
Network Streaming:  Network Protocol:	TCP, UDP (Unicast, Multicast) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI
System Compatibility:	ONVIF, PSIA, CGI
ONVIF compliant:	Profile S, Profile G
Web Browser:	MS Internet Explorer 7.0 (or higher)
Security:	HTTPS, IP FILTER, IEEE802.1x, Admin/User account
Firmware Upgrade:	Firmware upgrade by Web Browser
Video Outputs:	1Vpp/750hm, BNC cable
SD memory:	supports up to 128 GB capacity of micro SD memory
Recording:	H.264, Image Capture (Time-Lapse), JPEG format, Support NAS Server
Network Interface:	1x 10/100 Base T/TX (RJ-45)
Protection Rating:	IP66, IK10
Humidity:	less than 90%, non condensing
Operating Temperature:	-30°C ~ +60°C
Supply Voltage: Power Consumption (W):	PoE (IEEE 802.3af), 12VDC
·	9 2.10 kg // 2 kg
Weight:	2.10 kg - 4.63 lbs
Dimensions:	165 x 127 mm - 6.5 x 5 ln



#### 3 MP Real Time AV Dome IP-Camera 3~9mm AFZ Modul P-Iris ICR IR LED WDR

- 3 Megapixel IP Camera with real time video streaming
- Tamron P-Iris lens with Auto Focus Zoom Modul, for easy and precise remote settings
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- WDR (Wide Dynamic Range) for extreme backlight situations
- Vandal- and weather-proof
- 3 Way Axis Gimbal, wall mountable
- Easy cable management in the upper dome no external connection box necessary









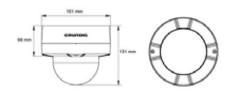








#### DIMENSIONS (mm)



#### **ACCESSORIES**

GBR-CM02 GHO-M028 GBR-IC02 GAC-B1514A









GAC-B0214A GBR-WA02

GBR-AM02







Penets - Tetals   2068   IP.) 1536   IV   Sensitivity Colour	Image Sensor:	1/2.8" Sony Exmor™ CMOS, 3 Megapixel
Sensitivity B/W:   Co/US	Pixels - Total:	2048 (H) x 1536 (V)
Lens Focal Length  Lens Focal Length  Jewing Angle  Optical Zoom Ratio  Digital Zoom Ratio  Lens Drive Type:  Tamron® Auto-Focus-Zoom Module, P-iris  Lens Drive Type:  Tamron® Auto-Focus-Zoom Module, P-iris  Lens Drive Type:  Tamron® Auto-Focus-Zoom Module, P-iris  Auto, Manual  IR LED:  Auto, Manual  IR LED:  Auto, Manual  Max. IR Oblance:  Wavelength:  Shutter Speed:  1 - 1/10.000 sec  WDR:  1208  BLC Back Light:  Winte Balance:  Digital Noise Reduction:  Motion Detection:  Alarm Input:  Network failure detection:  Tampering Alarm:  Time Lapse:  Manual Trigger:  On, Off, by Schedule  Tampering Alarm:  Time Lapse:  Manual Trigger:  On, Off, by Schedule  Camera ID:  Reversae:  Network Interface:  Normal, Filp, Mirror, Vertical Mode (Por-Lockwise, 99° counter clockwise), Bibr Oxide Compression:  Normal, Filp, Mirror, Vertical Mode (Por-Lockwise, 99° counter clockwise), Bibr Oxide Compression:  Normal, Filp, Mirror, Vertical Mode (Por-Lockwise, 99° counter clockwise), Bibr Oxide Compression:  Normal, Filp, Mirror, Vertical Mode (Por-Lockwise, 99° counter clockwise), Bibr Oxide Compression:  Audio Compression:	Sensitivity Colour:	0.04 Lux @ F1.7 (IRE30)
Lens Focal Length: Viewing Angle Optical Zoom Digital Zoom Liris F-Number: Lens Drive Type: Focus Adjustment: RED Max. IR Distance: Wavelength: Shutter Speed: Work BLD Back Light: Work Unite Balance: Digital Noise Reduction: Motion Detection: Alarm Input: Network failure detection: Alarm Input: Network failure detection: Schedule: Camera ID: Reverse: Manual Trigger: Audio detection: Schedule: Camera ID: Reverse: Network Interface: Network Interfa	•	-
Optical Zoom Natio Digital Zoom Iris F-Number Lens Drive Type: Tamron® Auto-Focus-Zoom Module, P-Iris Auto, Manual Iris F-Number IR LED Aux R Bistance: Wavelength Shutter Speed WOR BLC Back Light: White Balance: Digital Noise Reduction: Auto, Morion Detection Alarm Input Network failure detection: Tampering Alarm Time Lapse: Manual Trigger: Auto, Morion Detection On, Off, by Schedule Tampering Alarm Time Lapse: Manual Trigger: Auto detection: On, Off, by Schedule Camera ID, Recerate: Network Interface: Alarm Event: Video Compression: ONVIF Compliant: Video Streaming: Video Resolution: Stream Rete (Max@Resolution): Stream Rete (Max@Resolution): Streaming Method: Audio Communication: Audio Communication: Audio Compression: Audio Communication: Audio Province: Audio Compression: Audio	·	
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Iris F-Number: Lens Drive Type: Focus Adjustment: Auto, Manual IR LED: Max. IR Distance: Wavelength: Shutter Speed: Work Butter Speed: WOR: Shutter Speed: WOR: BLC Back Light: White Balance: AIW, AWB, Manual, One Push Digital Noise Reduction: Alarm Input: Network failure detection: Tampering Alarm: Time Lapse: Manual Trigger: Auto, More Alarm Drive Lapse: Manual Trigger: Auto detection: Shutter Speed: Work: Auto, More Alarm Drive Lapse: Manual Trigger: Auto detection: Single Day or Week, Time Istart, Duration), DAY or NIGHT Mode Camera ID: Reverse: Network Interface: Alarm Event: Video Compression: ONVIF Compliant: Video Compression:	•	
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Shutter Speed:  WIR:  BLC Back Light: White Balance: Digital Noise Reduction: Motion Detection: Alarm Input: On, Off, by Schedule Alarm Input: On, Off, by Schedule Tampering Alarm: Time Lapse: On, Off,	Max. IR Distance:	40/50 m (according to scene reflexion)
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BLC Back Light: White Balance: Digital Noise Reduction: Motion Detection: Motion Detection: Alarm Input: Network failure detection: Tampering Alarm: Time Lapse: Manual Trigger: Audio detection: On, Off, by Schedule Network failure detection: On, Off, by Schedule Tampering Alarm: Time Lapse: Manual Trigger: Audio detection: Off, On 60-3400s) Manual Trigger: Audio detection: Normal, Flip, Mirror, Vertical Mode Glore/Cuckwise,90° counter clockwisel, 180° Privacy zones: Science, rectangle 1x 10/100 Base T/TX IRJ-45] Enable Alarm Output, Send message by FTP or/and Email, Upload image by FTP or/and Email, Send HTTP norfication, IR CUT filter switch On/Off, Record Video Clip Video Compression: Audio Compression: Audio Communication: Audio Communicati	•	
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Reverse:  Normal, Flip, Mirror, Vertical Mode (190°clockwise,90° counter clockwise), 180°  Privacy zones:  Network Interface:  Alarm Event:  Alarm Event:  Video Compression:  ONVIF compliant:  Video Streaming:  Video Resolution:  Video Resolution:  Streaming Method:  Audio Compression:  Audio Compression:  Audio Compression:  Streaming Method:  Audio Compression:  Audio Compression:  Audio Privacy Zones:  Audio Compression:  Streaming Method:  Audio Compression:  Audio Privacy Zones:  Audio Compression:  Audio Privacy Zones:  Audio Compression:  Audio Compression:  Audio Privacy Zones:  Audio Compression:  Audio Compression:  Audio Compression:  Audio Privacy Zones:  Audio Compression:  Audio Compression:  Audio Privacy Zones:  Audio Compression:  Audio Compression:  Audio Privacy Zones:  Audio Compression:  Audio Compression:  Audio Compression:  Audio Compression:  Audio Compression:  Bridirectional  Unicast, Multicast  Unicast, Multicast  Unicast, Multicast  Audio Privacy Zones:  Brivacy Zones:  Brivacy Zones:  Brivacy Zones:  Audio Compression:  Audio Compression:  Audio Compression:  Brivacy Zones:  Brivacy Zones:  Brivacy Zones:  Brivacy Zones:  Brivacy Zones:  Brivacy Zones:  Audio Compression:  Audio Compression:  Brivacy Zones:  Brivacy Zones:  Brivacy Zones:  Brivacy Zones:  Brivacy Zones:  Brivacy Zones:  Audio Compression:  Audio Compression:  Brivacy Zones:  Audio Compression:  Audio Compression:  Brivacy Zones:  Brivacy Zones:  Brivacy Zones:  Brivacy Zones:  Brivacy Audio Compresion:  Audio Compression:  Brivacy Zones:  Brivacy Zones:  Briva	Audio detection:	Off, On
Reverse: Privacy zones: Privacy zones: Sones, rectangle  1x 10/100 Base T/TX (RJ-45)  Enable Alarm Output, Send message by FTP or/and Email, Upload image by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Off, Record Video Clip  Video Compression: ONVIF compliant: Video Streaming: Video Resolution: Video Resolution: Streaming Method: Audio Compression: Audio Input/Output: Alarm Input/O	Schedule:	Single Day or Week, Time (Start, Duration), DAY or NIGHT Mode
Privacy zones:  Network Interface:  Network Interface:  Alarm Event:  Alarm Event:  Video Compression:  ONVIF compliant:  Video Streaming:  Video Streaming:  Video Resolution:  Video Resolution:  Video Resolution:  Video Compression:  Oud stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or MJPEG  Video Streaming:  Video Resolution:  Video Resolution:  Video Resolution:  Video Compression:  Video Resolution:  Video Streaming Method:  Audio Communication:  Audio Communication:  Audio Input/Output:  Alarm Input/Output:  Alarm Input/Output:  Access protection:  Number of Clients:  Video Streaming:  Web Browser:  Network Protocol:  Network Protocol:  Firmware Upgrade:  On Micro SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK) on NAS: Video (AVI)  Multi Language Webpage::  Input/Outputs Series (AVI)  Alarm Input/Outputs (AVI)  Multi Language Webpage::  Input/Outputs (AVI)  Recording (AVI)  Protection Rating:  Operating Humidity:  Operating Humidity:  Regulation:  Supply Voltage:  12 VDC / 24 VAC, PoE+ (IEEE 802.3at)  Power Consumption (WI)  Video (AVI)  Vide	Camera ID:	
Privacy zones:  Network Interface:  Alarm Event:  Alarm Event:  Alarm Event:  Wideo Compression:  ONVIF compliant:  Video Streaming:  Video Resolution:  Video Resolution:  Streaming Method:  Audio Compression:  Audio Compression:  Streaming Method:  Audio Compression:  Audio Compression:  Streaming Method:  Audio Compression:  Audio Compression:  Audio Compression:  Streaming Method:  Audio Compression:  Audio Compression:  Audio Compression:  Audio Compression:  Audio Compression:  Audio Compression:  Audio Input/Output:  Access protection:  Number of Clients:  SD memory:  Web Browser:  Network Protocol:  Frimware Upgrade:  Configuration:  Method Nationary (Apple Configuration:  Multi Language Webpage::  LED Indicator:  Video Outputs:  Input/Outputs sockets:  Profile S  Av 12,64 (MPEG Alpret 10/AVC), MJPEG  Qual stream: 4x1.264 or 2x1.264 MJPEG Single: 13.264 or 2x1.264 or MJPEG  Web Browser:  Bi-directional  Line In/Line Out (two way Audio)  Line In/Line Out (two way Audio)  Alarm Input/Output:  1/1  Access protection:  By log-in and Password, IP filter, IEEE802.1x  Up to 20 simultaneously  supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat[fat32])  on Micro SD/SDHC CARD: Single image Recording IJPEG), Video(AVI, LCK) on NAS: Video (AVI)  Web Browser:  Network Protocol:  Firmware Upgrade:  On Micro SD/SDHC CARD: Single image Recording IJPEG), Video(AVI, LCK) on NAS: Video (AVI)  Firmware Upgrade:  Over Remote PC  English, German, French, Italian, Russian, Turkish  Power, Link, active  1 x RJ-45, 1x Video OUT (BINC), Micro-SD card slot, Power (2-Pin Term), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN)  Protection Rating:  Ceparating Temperature:  Operating Tem	Reverse:	
Alarm Event: by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Olf, Record Video Clip Video Compression: ONVIF compliant: Video Streaming: Video Resolution: Video Resolution: Video Resolution: Video Resolution: Streaming Method: Audio Compression: Audio Compression: Audio Compression: Audio Compression: Audio Communication: Audio Input/Output: Alarm Input/Output: Alarm Input/Output: Alarm Input/Output: Alarm Recording: Web Browser: Network Protocol: Nas Recording: Network Protocol: Network Pr	Privacy zones:	
Alarm Event: Video Compression: Video Compression: ONVIF compliant: Video Streaming: Video Resolution: Video Resolution: Streaming Method: Audio Communication: Audio Input/Output: Access protection: Number of Clients: SD memory: Recording Types:: Network Protocol: Network Protocol: Network Protocol: Network Protocol: Network Protocol: Configuration: Multi Language Webpage:: LED Indicator: Video Outputs: Alary Input/Outputs Access over Mobile Devices Primware Upgrade: Configuration: Multi Language Webpage:: LED Indicator: Video Outputs: Alary Input/Outputs Access over Mobile Devices Primware Upgrade: Configuration: Multi Language Webpage:: LED Indicator: Video Outputs: Alary Input/Outputs Access over Mobile Devices Primware Upgrade: Configuration: Multi Language Webpage:: LED Indicator: Video Outputs: Alary Input/Output Schets: Alary Input/Outputs Access over Mobile Devices Primware Upgrade: Configuration: Multi Language Webpage:: LED Indicator: Video Outputs: Alary Input/Outputs Access over Mobile Devices Alary Input/Outputs Access over Mobile Devices Primware Upgrade: Configuration: Multi Language Webpage:: LED Indicator: Video Outputs: Alary Input/Outputs Access over Mobile Devices Alary Input/Output Sockets: Alary Input/Output Sockets	Network Interface:	1x 10/100 Base T/TX (RJ-45)
Nideo Compression: ONVIF compliant: ONVIF compliant: ONVIF compliant: ONVIF compliant: Video Streaming: Video Streaming: Video Resolution: Video Resolution: ONVIF compliant: Video Resolution: Video Resolution: 1280x720 (30)/25fps], 1280x1024 (30)/25f	Alarm Event	
ONVIF compliant:  Video Streaming:  Video Resolution:  Streaming Method:  Audio Compression:  Audio Compression:  Audio Input/Output:  Alarm Input/Output:  Alarm Input/Output:  Alarm Rote Clients:  SD memory:  Recording Types::  Web Browser:  Network Protocol:  Network Protocol:  Firmware Upgrade:  Configuration:  Multi Language Webpage::  LED Indicator:  Video Outputs:  Input/Outputs Supports up to 128 GB capens or Grundig finder (from ver.1.17)  Configuration:  Multi Language Webpage::  LED Indicator:  Video Outputs:  Input/Outputs Supports up to 128 GB capens or Grundig finder (from ver.1.17)  Configuration:  Over Remote PC  Multi Language Webpage::  LED Indicator:  Video Outputs:  Input/Output sockets:  Operating Temperature:  Operating Temperatur		
Video Streaming:  Video Resolution:  Streaming Method:  Audio Compression:  Audio Compression:  Audio Compression:  Audio Input/Output:  Alarm Input/Output:  Alarm Input/Output:  Alarm Input/Output:  Alarm Input/Output:  Access protection:  Number of Clients:  SD memory:  Supports up to 128 GB capacity of SD/SDHC/SDXC memory (Vfatlfat32) format)  on Micro SD/SDHC CARD: Single Image Recording [JPEG], Video[AVI, LCK] on NAS: Video [AVI]  NAS Recording:  Yes  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  Network Protocol:  Firmware Upgrade:  Configuration:  Video Outputs:  IPV4/v6, TCP/IP, UDP, RTP, RTSP, HTP, HTTP, DHCP, PPPoE, UPPP, SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  by Web Browser or Grundig finder (from ver.1.17)  Over Remote PC  Multi Language Webpage::  LED Indicator:  Video Outputs:  Input/Output sockets:  Input/Output sockets:  Video Outputs:  1x RJ-45, 1x Video OUT (SNC), Micro-SD card slot, Power (2-Pin Term), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN)  Protection Rating:  Operating Temperature:  Operating Temp	Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
Video Resolution:  Video Resolution:  Video Resolution:  Video Resolution:  Video Resolution:  Video Resolution:  Streaming Method: Audio Compression: Audio Communication: Audio Input/Output: Alarm Input/Output: Alarm Input/Output: Access protection: Number of Clients: SD memory: Recording Types::  NAS Recording: Web Browser: Network Protocol: Network Protocol: Firmware Upgrade: Configuration: Audio Language Webpage:: LED Indicator: Video Outputs: LED Indicator: Video Outputs: LED Indicator: Video Outputs: LED Indicator: Video Outputs: Recording Temperature: Operating Humidity: Reside Rasing Advances on the Market August Augus	ONVIF compliant:	
Frame Rate [Max@Resolution]:  Streaming Method: Audio Compression: Audio Input/Output: Alarm Input/Output: Access protection: Number of Clients: SD memory: Recording Types:: NAS Recording: Web Browser: Network Protocol: Network Protocol: Sirry Input/Outputs: Access web Mobile Devices Network Protocol: Mutti Language Webpage:: LED Indicator: Video Outputs: Input/Outputs sockets: Operating Temperature: Operating Types:  125fps@3MP, 25fps@2MP, 25fps@1,3MP, etc. Unicast, Mutticast U	_	MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG
Streaming Method: Audio Compression: Audio Compression: Audio Input/Output: Alarm Input/Output: Access protection: Number of Clients: SD memory: Recording Types: Web Browser: Network Protocol: Firmware Upgrade: Configuration: Configuration: Audio Input/Output: Alarm Input/Output: Access protection: Number of Clients: SD memory:  Web Browser: Access over Mobile Devices  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, TTPS, DHCP, PPPoE, UPPP, SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP by Web Browser or Grundig finder (from ver.1.17) Over Remote PC  Multi Language Webpage: LED Indicator: Video Outputs: Input/Output sockets: Input/Output sockets: Input/Output sockets: Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN) Protection Rating: Operating Temperature: Operating Temperature: Operating Temperature: Operating Humidity: Regulation: Supply Voltage: Power Consumption (W): Veight: Output Continued and Password, IP filter, IEEE802.1x Input/Output sockets: IPV4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, Tirefox, Google Chrome, Safari, Access over Mobile Devices IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, THTPS, DHCP, PPPoE, UPPP, SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP by Web Browser or Grundig finder (from ver.1.17) Over Remote PC Ix RJ-45, 1x Video OUT (BNC), Micro-SD card slot, Power (2-Pin Term), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN) IK10, IP66  Operating Temperature: Operating Humidity: CE, RoHS Compliant Supply Voltage: Power Consumption (W): Veight: O. 8 kg - 1.76 lbs		1280x720 (30/25fps),etc.
Audio Commension: Audio Input/Output: Audio Input/Output: Alarm Input/Output: Access protection: Number of Clients: SD memory: Recording Types:: NAS Recording:: Web Browser: Network Protocol: Firmware Upgrade: Configuration: Audio Input/Output: Access protection: By log-in and Password, IP filter, IEEE802.1x Up to 20 simultaneously supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format) on Micro SD/SDHC CARD: Single Image Recording [JPEG], Video(AVI, LCK) on NAS: Video (AVI) Yes MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices IPv4/v6, TCP/IP, UDP, TP, RTP, HTTP, DHCP, PPPoE, UPnP, SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP by Web Browser or Grundig finder (from ver.1.17) Over Remote PC Multi Language Webpage: LED Indicator: Video Outputs: IRJ-45, 1x Video OUT (BNC), Micro-SD card slot, Power (2-Pin Term), Terminal 9 Pin (Alarm IN 2PIn, Alarm OUT 2PIn, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN) Protection Rating: Operating Temperature: Operating Temperature: Operating Temperature: Operating Humidity: Regulation: Supply Voltage: Power Consumption (W): Veight: Out 2 VIDE OUT (24 VAC, PoE+ (IEEE 802.3at)) Veight: Out 2 VIDE OUT (25 VAC, PoE+ (IEEE 802.3at))		
Audio Communication: Audio Input/Output: Alarm Input/Output: Access protection: Number of Clients: SD memory: Recording Types:: On Micro SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK) on NAS: Video (AVI)  NAS Recording:: Web Browser: Network Protocol: Firmware Upgrade: Configuration: Configuration: Multi Language Webpage:: LED Indicator: Video Outputs: Input/Output sockets: Input/Output sockets: Operating Temperature:	<del>-</del>	·
Audio Input/Output:  Alarm Input/Output:  Access protection:  Number of Clients:  SD memory:  Recording Types::  NAS Recording::  Web Browser:  Network Protocol:  Firmware Upgrade:  Configuration:  Multi Language Webpage::  LED Indicator:  Video Outputs:  LED Indicator:  Video Outputs:  Input/Output sockets:  Input/Output sockets:  Operating Temperature:  Operatin	·	·
Alarm Input/Output:  Access protection:  Number of Clients:  SD memory:  Recording Types::  NAS Recording::  Web Browser:  Network Protocol:  Firmware Upgrade:  Configuration:  Multi Language Webpage::  LED Indicator:  Video Outputs:  Input/Output sockets:  Input/Output sockets:  Operating Temperature:  Operating Tem		
Access protection: Number of Clients: SD memory: SD memory: Recording Types:: On Micro SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK) on NAS: Video (AVI)  NAS Recording:: Web Browser: Network Protocol: Firmware Upgrade: Configuration: Multi Language Webpage:: LED Indicator: Video Outputs: Input/Output sockets: Input/Output sockets: Operating Temperature: Operating Temperatu	·	
Number of Clients:  SD memory:  SD memory:  Recording Types::  NAS Recording::  Web Browser:  Network Protocol: Firmware Upgrade: Configuration:  Multi Language Webpage:: LED Indicator: Video Outputs: Input/Output sockets: Input/Output sockets: Operating Temperature: SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK) on NAS: Video (AVI)  Yes  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, UPnP, SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  by Web Browser or Grundig finder (from ver.1.17) Over Remote PC  English, German, French, Italian, Russian, Turkish Power, link, active 1Vpp, BNC  1x RJ-45, 1x Video OUT (BNC), Micro-SD card slot, Power (2-Pin Term), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN)  Regulation: Supply Voltage: Power Consumption (W):  Veight:  12 VDC / 24 VAC, PoE+ (IEEE 802.3at) Power Consumption (W): Veight:  0.8 kg - 1.76 lbs	·	
SD memory:  Recording Types::  On Micro SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK) on NAS: Video (AVI)  NAS Recording::  Web Browser:  Network Protocol:  Firmware Upgrade:  Configuration:  Multi Language Webpage::  LED Indicator:  Video Outputs:  Input/Output sockets:  Input/Output sockets:  Operating Temperature:  Operati	·	
Recording Types::  On Micro SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK) on NAS: Video (AVI)  NAS Recording::  Web Browser:  Network Protocol:  Firmware Upgrade:  Configuration:  Multi Language Webpage::  LED Indicator:  Video Outputs:  Input/Output sockets:  Input/Output sockets:  Operating Temperature:  Operating Temperature:  Operating Humidity:  Regulation:  Supply Voltage:  Power Consumption (W):  Web Browser of Sol (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  Access over Mobile Devices  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  Access over Mobile Devices  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  Access over Mobile Devices  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  Access over Mobile Devices  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  Access over Mobile Devices  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  MC Explorer, Firefox, Google Chrome, Safari, Access over Mobile Devices  MC Explorer, Firefox, Google Chrome, Safari, Access over Mobile Devices  MC Explorer, Firefox, Google Chrome, Safari, Access over Mobile Devices  MC Explorer, Firefox, Google Chrome, Safari, Access over Mobile Devices  MC Explorer, Firefox, Google Chrome, Safari, Access over Mobile Devices  MC Explorer, Firefox, Google Chrome, Safari, Access over Mobile Devices  MC Explorer, Firefox, Google Chrome, Safari, Access over Mobile Devices		supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32)
NAS Recording::  Web Browser:  Network Protocol:  Firmware Upgrade:  Configuration:  Multi Language Webpage::  LED Indicator:  Video Outputs:  Input/Output sockets:  Input/Output sockets:  Operating Temperature:  Operating Humidity:  Regulation: Supply Voltage:  Power Consumption (W):  Weight:  On MSI Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, UPnP, SMTP, ICMP, IGMP, SMMP, IEEE802.1x, OoS, ONVIF, FTP, ARP  by Web Browser or Grunding firmer, FTP, ARP  Dever Consumption (W):  Over Remote PC  Dever Remote PC  Dever Remote PC  Iv RJ-46, 1x Video OUT (BNC), Micro-SD card slot, Power (2-Pin Term), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio, GND 1 PIN)  Fortical Park Audio, GND 1 PIN)  IK10, IP66  Operating Temperature:  Operating Humidity:  10% ~ 90%, non-condensing  CE, RoHS Compliant  Supply Voltage:  12 VDC / 24 VAC, PoE+ (IEEE 802.3at)  Power Consumption (W):  Olice Audio, GND 1 PIN)  Weight:  Olice Audio, GND 1 PIN)  OUT 2 PIN L/R, Audio, GND 1 PIN)  IK10, IP66  Operating Temperature:  Operating Temperature:  -40°C ~ +55°C  Operating Temperature:  Operating Temperature:  -40°C ~ +55°C  Operating Temperature:  Operating Temperature:  Operating Temperature:  Operating Temperature:  -40°C ~ +55°C	•	
Web Browser:  Network Protocol:  Network Protocol:  Network Protocol:  Firmware Upgrade:  Configuration:  Multi Language Webpage::  LED Indicator:  Video Outputs:  Input/Output sockets:  Input/Output sockets:  Operating Temperature:  Operating Temperature:  Operating Temperature:  Operating Humidity:  Regulation:  Supply Voltage:  Power Consumption (W:  Weight:  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices  IPv4/v6, TCP/IP, UDP, RTP, RTPS, HTTP, DHCP, PPPoE, UPnP, SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, IGMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, ICMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, ICMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, ICMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, ICMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, ICMP, SMMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  SMTP, ICMP, ICMP, SMMP, IEEE802.1x, QoS, ONVIF, ICMP, AUDIO  OVER TEMP, Audio, Info Audio Info	3 7.	on NAS: Video (AVI)
Network Protocol:  Network Protocol:  Network Protocol:  Firmware Upgrade:  Configuration:  Multi Language Webpage::  LED Indicator:  Video Outputs:  Input/Output sockets:  Input/Output sockets:  Operating Temperature:  Operating Temperature:  Operating Humidity:  Regulation:  Supply Voltage:  Power Consumption (W):  Network Protocol:  IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPDE, UPnP, SMTP, IEEE802.1x, QoS, ONVIF, FTP, ARP  by Web Browser or Grundig finder (from ver.1.17)  Over Remote PC  English, German, French, Italian, Russian, Turkish  Power, Link, active  1Vpp, BNC  1x RJ-45, 1x Video OUT (BNC), Micro-SD card slot, Power (2-Pin Term), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN)  Protection Rating:  Operating Temperature:  Operating Humidity:  Regulation:  Supply Voltage:  Power Consumption (W):  Veight:  Olive Temperature (August Person (Augu	NAS Recording::	
SMTP, ICMP, IGMP, SNMP, IEEE802.1x, QoS, ONVIF, FTP, ARP  Firmware Upgrade: Configuration:  Multi Language Webpage: LED Indicator: Video Outputs: Input/Output sockets: Input/Output sockets: Operating Temperature: Operating Temperature: Operating Humidity: Regulation: Supply Voltage: Power Consumption (W): Weight: SMTP, ICMP, IGMP, SNMP, IEEE802.1x, QoS, ONVIF, FTP, ARP by Web Browser or Grunding finder (from ver.1.17) Over Remote PC English, German, French, Italian, Russian, Turkish Power, Link, active 1Vpp, BNC 1x RJ-45, 1x Video OUT (BNC), Micro-SD card slot, Power (2-Pin Term), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN)  IK10, IP66  Operating Temperature: -40°C ~ +55°C Operating Humidity: Regulation: Supply Voltage: 12 VDC / 24 VAC, PoE+ (IEEE 802.3at) Power Consumption (W): 0.8 kg - 1.76 lbs	Web Browser:	Access over Mobile Devices
Configuration:  Multi Language Webpage::  LED Indicator: Video Outputs:  Input/Output sockets:  Protection Rating: Operating Temperature: Operating Humidity: Regulation: Supply Voltage: Power Consumption (W): Weight: Output Services  Over Remote PC  English, German, French, Italian, Russian, Turkish Power, Link, active  1Vpp, BNC  1x RJ-45, 1x Video OUT (BNC), Micro-SD card slot, Power (2-Pin Term), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN) IKTO, IP66  Operating Temperature: -40°C ~ +55°C Operating Humidity: 10% ~ 90%, non-condensing CE, RoHS Compliant Supply Voltage: 12 VDC / 24 VAC, PoE+ (IEEE 802.3at) Power Consumption (W): 0.8 kg ~ 1.76 lbs		SMTP, ICMP, IGMP, SNMP, IEEE802.1x, QoS, ONVIF, FTP, ARP
Multi Language Webpage::  LED Indicator: Video Outputs:  Input/Output sockets:  Protection Rating: Operating Temperature: Operating Humidity: Regulation: Supply Voltage: Power Consumption (W): Weight:  RED Indicator: Power, Link, active 1Vpp, BNC  1x RJ-45, 1x Video OUT (BNC), Micro-SD card slot, Power (2-Pin Term), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN)  IK10, IP66  Operating Temperature: -40°C ~ +55°C  Operating Humidity: Regulation: CE, RoHS Compliant Supply Voltage: 12 VDC / 24 VAC, PoE+ (IEEE 802.3at)  Power Consumption (W): 0.8 kg - 1.76 lbs		3
LED Indicator:  Video Outputs:  1vpp, BNC  1x RJ-45, 1x Video OUT (BNC), Micro-SD card slot, Power (2-Pin Term), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN)  Protection Rating:  Operating Temperature:  Operating Humidity:  Regulation:  Supply Voltage:  Power Consumption (W):  Weight:  Out 2 PIN L/R, Audio, GND 1 PIN)  IK10, IP66  OUT 2 PIN L/R, Audio, GND 1 PIN)  IK10, IP66  OUT 2 PIN L/R, Audio, GND 1 PIN)  IK10, IP66  OUT 2 PIN L/R, Audio, GND 1 PIN)  IK10, IP66  Out 2 PIN L/R 2 PIN, AUDIO  OUT 2 PIN L/R 2 PIN, AUDIO  OUT 2 PIN L/R, Audio, GND 1 PIN)  IK10, IP66  Out 2 PIN L/R 2 PIN, AUDIO  OUT 2 PIN L/R, Audio, GND 1 PIN)  IK10, IP66  Out 2 PIN L/R 2 PIN, AUDIO  OUT 2 PIN L/R 2 PIN, AUDIO  OUT 2 PIN L/R, Audio, GND 1 PIN)  IK10, IP66  Operating Temperature:  -40°C ~ +55°C  Operating Humidity:  10% ~ 90%, non-condensing  CE, RoHS Compliant  Supply Voltage:  12 VDC / 24 VAC, PoE+ (IEEE 802.3at)  OUT 2 PIN L/R 2 PIN, AUDIO  OUT 2 PIN L/R 2 PIN, AUDIO  OUT 2 PIN L/R 2 PIN, AUDIO  OUT 2 PIN L/R, Audio, GND 1 PIN)  IK10, IP66	•	
Video Outputs:  Input/Output sockets:  Input/Output sockets:  Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN)  Protection Rating:  Operating Temperature:  Operating Humidity:  Regulation:  Supply Voltage:  Power Consumption (W):  Weight:  100		
Input/Output sockets:  Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO OUT 2 PIN L/R, Audio, GND 1 PIN)  Protection Rating:  Operating Temperature:  Operating Humidity:  Regulation: Supply Voltage:  Power Consumption (W): Weight:  1x RJ-45, 1x Video OUT (BNC), Micro-SD card slot, Power (2-Pin Term), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO  IK10, IP66  1K10, IP66  10% ~ 90%, non-condensing  CE, RoHS Compliant  Supply Voltage:  12 VDC / 24 VAC, PoE+ (IEEE 802.3at)  Power Consumption (W):  0.8 kg ~ 1.76 lbs		
Protection Rating:  Operating Temperature:  Operating Humidity:  Regulation:  Supply Voltage:  Power Consumption (W):  Weight:  IK10, IP66  10% ~ 90%, non-condensing  CE, RoHS Compliant  12 VDC / 24 VAC, PoE+ (IEEE 802.3at)  20 (LED on)  Weight:  0.8 kg ~ 1.76 lbs	Input/Output sockets:	1x RJ-45, 1x Video OUT (BNC), Micro-SD card slot, Power (2-Pin Term), Terminal 9 Pin (Alarm IN 2Pin, Alarm OUT 2Pin, Audio IN L/R 2 PIN, AUDIO
Operating Humidity: 10% ~ 90%, non-condensing Regulation: CE, RoHS Compliant Supply Voltage: 12 VDC / 24 VAC, PoE+ (IEEE 802.3at) Power Consumption (W): 20 (LED on) Weight: 0.8 kg - 1.76 lbs	Protection Rating:	
Regulation:         CE, RoHS Compliant           Supply Voltage:         12 VDC / 24 VAC, PoE+ (IEEE 802.3at)           Power Consumption (W):         20 (LED on)           Weight:         0.8 kg - 1.76 lbs	Operating Temperature:	-40°C ~ +55°C
Supply Voltage:         12 VDC / 24 VAC, PoE+ (IEEE 802.3at)           Power Consumption (W):         20 (LED on)           Weight:         0.8 kg - 1.76 lbs	Operating Humidity:	
Power Consumption (W):         20 (LED on)           Weight:         0.8 kg - 1.76 lbs		·
Weight: 0.8 kg - 1.76 lbs		
•	•	
101 x 101 HHH - 0.74 x 0.10 H	-	
	Difficiliations.	101 X 101 IIIII



#### 4 Megapixel Compact Dome with IR Leds WDR

- 4 Megapixel IP Camera with Full HD 1080P real time video
- H.264 & MJPEG compression modes
- Lens: f = 2.8 mm, 106°

**GCI-L4617W** 

- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- Weatherproof Outdoor Installation (IP67)
- Built in analytics function, motion detection, trip wire, intrusion detection, tamper detection
- Ceiling or Wall Mount possibility









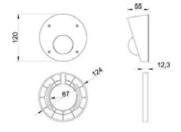




Image Sensor:

Pixels - Total:

#### DIMENSIONS (mm)



#### **ACCESSORIES**

GBR-WA06



Sensitivity Colour:	0.01 lux @ F1.2 (AGC 0N)
Sensitivity B/W:	0 Lux LED IR on
Col/B:	Auto/Timing/B&W/Color
Lens Focal Length:	2.8 mm
Horizontal Viewing Angle:	106°
Iris F-Number:	F 2.0
High Speed Shutter:	1/3 ~ 1/10.000 sec
IR LED:	10 pcs.
Max. IR Distance:	10 m
Wavelength:	850nm
BLC Back Light:	On/ Off/ Area/ Level
WDR:	120dB
Digital Noise Reduction:	3D-DNR, auto
White Balance:	Manual, AWB1, AWB2, Locked WB, Fluorescente lamp, Incandescent lamp, Warm light, Natural light
Reverse:	Normal, Flip, Mirror, Vertical Mode, 180°
Video Text Overlay:	Text string (28 character), Subtitel (1 lines @ 44 character)
Privacy zones:	4 zones, rectangle
Video Compression:	H.264, MJPEG, H.264+
Video Streaming:	Dual stream: H.264 + H.264 or H.264 + MJPEG
Video Resolution:	Main: 2688x1520 (20/20fps), 2048x1536 (20/20fpsfps), 1920x1080 (25/30fps), 1280x720 (25/30fps), Sub: 1280x720(25/30fps), 640x480(25/30fps), 352x288(25/30fps), 320x240(25/30fps)
Bit Rate:	Mainstream: 32kbps~16384kbps, Substream: 32kbps~8192Mbps
Alarm Trigger:	Motion detection, Video Tampering, Alarm Input, Network disconnect, IP address conflict, Storage exception, Line crossing Detection, Intrusion detection Bonjour, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, IEEE
Network Protocol:	802.1 X, IGMP, IPv4/IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP
System Compatibility:	CGI, ONVIF, PSIA
ONVIF compliant:	Profile S, Profile G
Web Browser:	MS Internet Explorer 7.0 (or higher)
Security:	HTTPS, IP FILTER, IEEE802.1x, Admin/User account
SD memory:	supports up to 128 GB capacity of micro SD/SDHC/SDXC memory
Network Interface:	1x 10/100 Base T/TX (RJ-45)
Protection Rating:	IP67, IK08
Operating Temperature:	-30°C ~ +60°C
Humidity:	less than 90%, non condensing
Supply Voltage:	PoE (IEEE 802.3af), 12VDC
Power Consumption (W):	5
Weight:	0.6 kg - 1.32 lbs
Dimensions:	120 x 55 mm - 4.72 x 2.17 ln

1/3" Progressive Scan CMOS 2688(H) x 1520 (V)



#### 4 MP Vandal Proof Fixed Dome Camera with IR LED **WDR**

- 4 Megapixel IP Camera with Full HD 1080P real time video
- Varifocal Lens: f = 2.8 12 mm
- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- Vandal Resistant Dome (IK10)
- Weatherproof Outdoor Installation (IP67)
- Built in analytics function, motion detection, trip wire, intrusion detection, tamper detection
- 3 Axis Gimbal, to mount on Wall or Ceiling









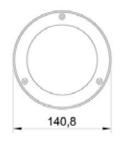


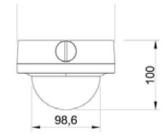






#### DIMENSIONS (mm)





#### **ACCESSORIES**

GAC-B0214B GBR-FB10 GBR-CE04 GBR-WA09







GBR-PM04



Power Consumption (W):

Weight:

Dimensions:









1/3" Progressive Scan CMOS Image Sensor: Pixels - Total: 2688(H) x 1520 (V) 0.01 lux @ F1.2 (AGC ON) Sensitivity Colour: Sensitivity B/W: 0 Lux LED IR on Col/B: Auto/Timing/B&W/Color Lens Focal Length: 2.8 ~ 12 mm Horizontal Viewing Angle: 112°(Wide) ~ 33.8°(Tele) Iris F-Number: F= 1.4 High Speed Shutter: 1/3 ~ 1/10.000 sec IR LED: 24 pcs. Max. IR Distance: 20/30m (according to scene reflexion) Wavelength: 850nm BLC Back Light: On/ Off/ Area/ Level WDR-120dB Digital Noise Reduction: 3D-DNR, auto Manual, AWB1, AWB2, Locked WB, Fluorescente lamp, White Balance: Incandescent lamp, Warm light, Natural light Normal, Flip, Mirror, Vertical Mode, 180° Reverse: Text string (28 character), Subtitel (1 lines @ 44 Video Text Overlay: character) Privacy zones: 4 zones, rectangle On/Off (8 Zones) Motion Detection: Video Compression: H.264, MJPEG, H.264+ Video Streaming: Dual stream: H.264 + H.264 or H.264 + MJPEG Main: 2688x1520 (20/20fps), 2048x1536 (20/20fpsfps), 1920x1080 (25/30fps), 1280x720 (25/30fps), Sub: Video Resolution: 1280x720(25/30fps), 640x480(25/30fps), 352x288(25/30fps), 320x240(25/30fps) Mainstream: 32kbps~16384kbps, Substream: Bit Rate: 32kbps~8192Mbps Motion detection, Tampering, Network disconnect, IP Alarm Trigger: address conflict, Storage error, Line crossing Detection, Intrusion detection Bonjour, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, IEEE Network Protocol: 802.1 X, IGMP, IPv4/IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP System Compatibility: CGI, ONVIF, PSIA ONVIF compliant: Profile S, Profile G Web Browser: MS Internet Explorer 7.0 (or higher) HTTPS, IP FILTER, IEEE802.1x, Admin/User account Security: supports up to 128 GB capacity of micro SD/SDHC/SDXC SD memory: memory Network Interface: 1x 10/100 Base T/TX (RJ-45) IK10, IP67 Protection Rating: Operating Temperature: -30°C ~ +60°C less than 90%, non condensing Humidity: Supply Voltage: PoE (IEEE 802.3af), 12VDC

5.5

1 kg - 2.2 lbs 141 mm - 5.55 In



#### 4 MP Vandal Proof Fixed Dome Camera with IR LED **WDR**

- 4 Megapixel IP Camera with real time video streaming
- Motorized Vario Focal lens

GCI-L4687V

- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- Vandal Resistant Dome (IK10)
- Weatherproof Outdoor Installation (IP67)
- Built in analytics function, motion detection, trip wire, intrusion detection, tamper detection
- 3 Axis Gimbal, to mount on Wall or Ceiling











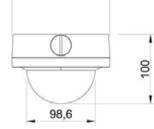






#### **DIMENSIONS (mm)**





#### **ACCESSORIES**

GAC-B0214B GBR-FB10 GBR-CE04 GBR-WA09









Network Interface:

Protection Rating:

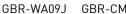
Humidity:

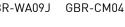
Weight:

Dimensions:

Supply Voltage: Power Consumption (W):

Operating Temperature:







GBR-PM04







Image Sensor:	1/3" Progressive Scan CMOS
Pixels - Total:	2688(H) x 1520 (V)
Sensitivity Colour:	0.01 lux @ F1.2 (AGC ON)
Sensitivity B/W:	0 Lux LED IR on
Col/B:	Auto/Timing/B&W/Color
Lens Focal Length:	2.8~12 mm Motorized vario lens
Horizontal Viewing Angle:	112°(Wide) ~ 33.8°(Tele)
Iris F-Number:	F= 1.4
High Speed Shutter:	1/3 ~ 1/10.000 sec
IR LED:	24 pcs.
Max. IR Distance:	20/30m (according to scene reflexion)
Wavelength:	850nm
BLC Back Light:	On/ Off/ Area/ Level
WDR:	120dB
Digital Noise Reduction:	3D-DNR, auto
White Balance:	Manual, AWB1, AWB2, Locked WB, Fluorescente lamp, Incandescent lamp, Warm light, Natural light
Reverse:	Normal, Flip, Mirror, Vertical Mode, 180°
Video Text Overlay:	Text string (28 character), Subtitel (1 lines @ 44 character)
Privacy zones:	4 zones, rectangle
Motion Detection:	On/Off (8 Zones)
Video Compression:	H.264, MJPEG, H.264+
Video Streaming:	Dual stream: H.264 + H.264 or H.264 + MJPEG
Video Resolution:	Main: 2688x1520 (20/20fps), 2048x1536 (20/20fpsfps), 1920x1080 (25/30fps), 1280x720 (25/30fps), Sub: 1280x720(25/30fps), 640x480(25/30fps), 352x288(25/30fps), 320x240(25/30fps)
Bit Rate:	Mainstream: 32kbps~16384kbps, Substream: 32kbps~8192Mbps
Alarm Trigger:	Motion detection, Tampering, Network disconnect, IP address conflict, Storage error, Line crossing Detection Intrusion detection
Network Protocol:	Bonjour, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, IEEE 802.1 X, IGMP, IPv4/IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP
System Compatibility:	CGI, ONVIF, PSIA
ONVIF compliant:	Profile S, Profile G
Web Browser:	MS Internet Explorer 7.0 (or higher)
Security:	HTTPS, IP FILTER, IEEE802.1x, Admin/User account
SD memory:	supports up to 128 GB capacity of micro SD/SDHC/SDXC memory

memory

1x 10/100 Base T/TX (RJ-45)

IK10, IP67 -30°C ~ +60°C

less than 90%, non condensing

PoE (IEEE 802.3af), 12VDC

7.5

1 kg - 2.2 lbs

141 x 100 mm - 5.55 x 3.94 ln



#### 6 MP Fisheye Vandalproof Dome IP Camera with IR LED

- Rugged antivandal body made of die-cast aluminium with polycarbonate lower dome for outdoor application
- 6 Megapixels CMOS, Colour/B&W Camera
- 360° field of view
- Dewarping function Built-In
- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- SDHC memory card slot for alarm and schedule image recording
- Ceiling or Wall Mount possibility











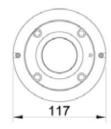








#### **DIMENSIONS (mm)**





#### **ACCESSORIES**

GBR-WA07 GBR-IC07





Image Sensor:	1/1.8" Sony Progressive Scan CMOS, 6 megapixel
Pixels - Total:	3072 x 2048
Sensitivity Colour:	0.04 Lux @ F2.0
Sensitivity B/W:	0.002 Lux @ F2.0
Col/B:	On/Off/SMART, IR-cut filter removable (ICR)
Lens Focal Length:	1.55 mm
Viewing Angle:	180° @ Full Resolution
Lens Drive Type:	Fixed Iris
Digital Zoom:	Yes
IR LED:	4 pcs.
IR Light Compensation:  Max. IR Distance:	On, Off 5/7 m (according to scene reflexion)
Max. IR Distance: Wavelength:	5// m (according to scene reflexion)  850nm
Shutter Speed:	1 ~ 1/10.000 sec
PTZ Control:	digital Pan/Tilt/Zoom
WDR:	Off/Low/Middle/High
BLC Back Light:	On/Off
White Balance:	ATW, AWB, Manual, One Push
Privacy zones:	5 zones, rectangle
Schedule:	Daily, Weekly, Start Time and Duration
Reverse:	Normal, Flip, Mirror, Vertical Mode [90°clockwise,90° counter clockwise],
Digital Noise Reduction:	180° 2DNR: ON/OFF, 3DNR/ColorNR: Off/Low/Mid/High
Digital Noise Reduction:	Enable Alarm Output, Send message by FTP or/and Email, Upload image
Alarm Event:	by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Off, Record to Micro SD Card
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
ONVIF compliant: Video Streaming:	Profile S Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG
Video Resolution:	Backend (SW) Dewarp: 3072x2048,1920x1080, 1280x1024, 1280x720, 1024x768, 800x600, 720x576, 640x480, 352x288, 320x240, Edge Dewarp: 2048x2048, 2048x1536,1920x1080, 1600x1200,1408x1408, 960x960, 960x720,
Frame Rate (Max@Resolution):	960x544 25fps@6MP, 25fps@4MP, 25fps@3MP, 50fps@2MP, 50fps@1.3MP, etc.
Streaming Method:	Unicast, Multicast
Fisheye settings:	360°, 180°, Back- and Front End Dewarping
Frontend Dewarp function:	Yes, 2 Streams(4MP&2MP)
Back End Dewarp function:	Yes, 6MP, up to 4 Streams
Audio Compression: Audio Communication:	G.726, G.711 Bi-directional
Audio Input/Output:	Line In/Line Out (two way Audio)
Alarm Input/Output:	1/1
Alarm Trigger:	Alarm Input, Motion Detection, Network Failure detection, Tampering Alarm, Time lapse, Manual Trigger, Audio detection
Web Browser:	MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari
Number of Clients:	Up to 20 simultaneously
Network Protocol:	IPv4, IPv6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, 802.1X IEEE, SMMP, QOS, ARP supports up to 128 GB capacity of SD/SDHC/SDXC memory [vfat[fat32]]
SD memory:	format)
NAS Recording::	Yes
Recording Types::	on Micro SD/SDHC/SDXC CARD Single Image Recording (JPEG)Video(AVI, LCK)
LED Indicator:	Power, link, active
Input/Output sockets:	Micro Card slot, All in one cable: RJ45 Plug, 2 Pin Power Connector, 4 Pin Alarm I/O, Audio I/O 2 x mini jack plug
Firmware Upgrade:	Firmware upgrade by Web Browser
Configuration:	Upload & Download configuration on remote PC
Multi Language Webpage::	English, German, French, Italian, Russian
Video Text Overlay: Mount:	Text string (15 character), Subtitel (5 lines @ 16 character)  Ceiling , wall
Protection Rating:	IP 66 / IK 10 (for metal casing)
Regulation:	CE, RoHS Compliant
Humidity:	10 ~ 90% no condensation
Operating Temperature:	-10°C ~ +55°C
Supply Voltage:	PoE (IEEE 802.3af), 12VDC
Power Consumption (W):	10
Weight:	0.5 kg - 1.1 lbs
Dimensions:	117 x 43 mm - 4.61 x 1.69 ln

# GRUDDIG

GCI-N0586V

#### 8 MP Ultra HD AV Dome IP-Camera 3.5~8mm motor. lens P-Iris ICR IR LED

- 4K Resolution for super detailed images
- Motorized Vario Focal lens (Zoom & Focus), P- Iris
- Infrared Power LED for wide angle and long distance IR
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- New connection technology
- ONVIF Profile S compliant for maximum compatibility with VMS
- SD/SDHC/SDXC memory card slot for alarm and schedule image
- Easy cable management in the upper dome no external connection box necessary











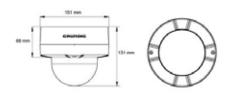








#### **DIMENSIONS (mm)**



#### **ACCESSORIES**

GHO-M028 GBR-WA02 GBR-PM01 GBR-CM01











GBR-AM02

GAC-B1514A GAC-B0114A









Image Sensor:	1/1.7" Sony Progressive CMOS 12 MP
Pixels - Total:	3840(H) x 2160(V)
Sensitivity Colour:	0.5 Lux@F1.2 (IRE50), 0.2 Lux@F1.2 (IRE30)
Sensitivity B/W:	0.1 Lux@F1.2 (IRE50), 0.02 Lux@ F1.2 (IRE30)
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Lens Focal Length:	3.5 ~ 8 mm
Iris F-Number:	F= 1.45 ~ 360C
Lens Drive Type:	Motorized Zoom & Focus, P- Iris 116° (Wide) ~ 52° (Tele)
Horizontal Viewing Angle:	Off/1 ~ 10x
Digital Zoom: Shutter Speed:	0π/1 ~ 10x 1 ~ 1/10.000 sec
IR LED:	6 pcs., 95° illumination angle
Max. IR Distance:	6 pcs., 75 itturimation angle 40 m
Wavelength:	850nm
BLC Back Light:	On/Off
WDR:	72dB (Digital Wide Dynamic Range) Off/Low/Middle/High
White Balance:	ATW, AWB, Manual, One Push
Privacy zones:	5 zones, rectangle
DIS: Digital Image Stabilization:	yes
Digital Noise Reduction:	2DNR: ON/OFF, 3DNR/ColorNR: Off/Low/Mid/High
Video Text Overlay:	Text string (15 character), Subtitel (5 lines @ 16 character)
Motion Detection:	On, Off, by Schedule
	Alarm Input, Motion Detection, Network Failure detection, Tampering
Alarm Trigger:	Alarm, Time lapse, Manual Trigger, Audio detection
Schedule:	Daily, Weekly, Start Time and Duration
Alarm Event:	Enable Alarm Output, Send message by FTP or/and Email, Upload image by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Off, Record to Micro SD Card
Reverse:	Normal, Flip, Mirror, Vertical Mode [90°clockwise,90° counter clockwise], 180°
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
ONVIF compliant:	Profile S
Video Streaming:  Video Resolution:	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG 8MP[3840x2160]/5,7MP[3200x1800]/FUIL HD
Frame Rate (Max@Resolution):	1080p/SXGA/HD720p/XGA/SVGA/4CIF/VGA/CIF/QVGA 25fps@8MP, 25fps@5,7MP, 50fps@2MP, 50fps@1,3MP,50fps@HD720p,
Streaming Method:	50fps@XGA, etc. Unicast, Multicast
Audio Compression:	6.711, G.726
Audio Communication:	Bi-directional
Audio Input/Output:	Line In/Line Out (two way Audio)
Alarm Input/Output:	1/1
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Number of Clients:	Up to 20 simultaneously
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
NAS Recording::	Yes
Recording Types::	on Micro SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK) on NAS: Video (AVI)
Web Browser:	MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices ARP, DHCP, FTP, HTTP, HTTPS, ICMP, IEEE 802.1 X, IGMP, IPv4/IPv6,
Network Protocol: Firmware Upgrade:	ONVIF, PPPoE, QoS, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP by Web Browser or Grundig finder (from ver.1.17)
Configuration:	Upload & Download configuration on remote PC
Multi Language Webpage::	English, German, French, Italian, Russian
LED Indicator:	Power, link, active
Video Outputs:	1Vpp, BNC
Input/Output sockets:	RJ-45 female connector, Micro SD Card Slot, Multicable with Video Out(BNC), Power(2-Pin Term), 9-Pin Terminal block (Alarm IN 2-Pin, Alarm Out 2-Pin), (Audio IN 2-Pin, Audio Out 2-Pin)
Operating Humidity:	10% ~ 90%, non-condensing
Regulation:	CE, RoHS Compliant
Operating Temperature:	-25°C ~ +55°C
Supply Voltage:	12 VDC / 24 VAC, PoE (IEEE 802.3af)
Power Consumption (W):	12.4 (LED ON)
Weight:	0.5 kg - 1.1 lbs
B: .	151 100 50/ 50/1

151 x 128 mm - 5.94 x 5.04 ln

Dimensions:



#### 12 MP Fisheye Vandalproof Dome IP Camera with IR LED

- 12 Megapixels CMOS, Colour/B&W Camera
- 360° field of view
- Rugged antivandal body made of die-cast aluminium with polycarbonate lower dome for outdoor application
- Dewarping function Built-In
- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- SDHC memory card slot for alarm and schedule image recording









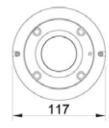








#### DIMENSIONS (mm)





#### **ACCESSORIES**

GBR-WA07 GBR-IC07





Image Sensor:	1/1.7" Sony Progressive CMOS 12 MP
Pixels - Total:	4000(H) x 3000(V)
Sensitivity Colour:	0. 01Lux/F2.8
Sensitivity B/W:	0.01 lux @ F2.8
Col/B:	On/Off/SMART, IR-cut filter removable (ICR)
Lens Focal Length:	1.65 mm
Viewing Angle:	190° @ Full Resolution
Iris F-Number:	F 2.8
Lens Drive Type:	Fixed Iris
Digital Zoom:	Yes
IR LED:	4 pcs.
IR Light Compensation:	On, Off
Max. IR Distance: Wavelength:	5 m 850nm
Shutter Speed:	1 ~ 1/10.000 sec
PTZ Control:	digital Pan/Tilt/Zoom
WDR:	On/Off
BLC Back Light:	On/Off
White Balance:	ATW, AWB, Manual, One Push
Privacy zones:	5 zones, rectangle
Motion Detection:	On, Off, by Schedule
Schedule:	Daily, Weekly, Start Time and Duration
Reverse:	Normal, Flip, Mirror, Vertical Mode (90°clockwise,90° counter clockwise), 180°
Digital Noise Reduction:	2DNR: ON/OFF, 3DNR/ColorNR: Off/Low/Mid/High
Alarm Event:	Enable Alarm Output, Send message by FTP or/and Email, Upload image by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Off, Record to Micro SD Card
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
ONVIF compliant:	Profile S
Video Streaming:	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG
Video Resolution:	Backend Dewarping: H.264 - 12M (4000 x 3000) / 8M (3840 x 2160) / 6M (3072 x 2048) / Full HD 1080p / SXGA / HD 720p / XGA / SVGA / D1 / VGA / CIF / OVGA MJPEG - Full HD 1080p / SXGA / HD 720p / XGA / SVGA / D1 / VGA / CIF / OVGA, Edge Dewarping: H.264 - 2048x2048 / 2688x1520 / 2048x1536 / 1920x1080 / 1600x1200 / 1408x1408 / 960x720 / 960x524 MJPEG - 1920x1080 / 1600x1200 / 1408x1408 / 960x720 / 960x554 MJPEG - 1920x1080 / 1600x1200 / 1408x1408 / 960x960 / 960x720 / 960x554
Frame Rate (Max@Resolution):	max.: H.264 12MP (4000x3000)@20fps, 4K(3840x2160)@24fps, 6MP(3200x1800)@25/30fps, 1080p@50/60fps, MJPEG 1080p@50/60fps
Streaming Method:	Unicast, Multicast
Fisheye settings:	360°, 180°, Back- and Front End Dewarping  Dual Streaming: H.264 [2048x2048]@20fps + H.264 1080P@20fps, H.264 [1408x1408]@25/30fps + H.264 1080p@25/30fps, H.264/MJPEG 1080p@50/60fps
Back End Dewarp function:	+ H.264/MJPEG 1080p@25/30fps Single Streaming: max.: H.264 12MP (4000x3000)@20fps, 4K(3840x2160)@24fps, 6MP(3200x1800)@25/30fps, 1080p@50/60fps, MJPEG 1080p@50/60fps, Dual Streaming: max.: H.264 12MP (4000x3000)@15fps + 1080p@15fps, H.264 4K(3840x2160)@20fps + 1080p@20fps, H.264 6MP(3200x1800)@25/30fps + 720p@25/30fps, H.264/MJPEG 1080p@50/60fps + H.264/MJPEG 1080p@25/30fps
Audio Input/Output:	Line In/Line Out (two way Audio)
Audio Compression:	G.726, G.711
Audio Communication:	Bi-directional
Alarm Input/Output:	1/1
Alarm Trigger:	Alarm Input, Motion Detection, Network Failure detection, Tampering Alarm, Time lapse, Manual Trigger, Audio detection
Web Browser:	MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari
Number of Clients:	Up to 20 simultaneously
Network Protocol:	IPv4, IPv6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP,
SD memory:	PPPoE, UPnP, IGMP, 802.1X IEEE, SNMP, QOS, ARP supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
NAS Recording::	Yes
Recording Types::	on Micro SD/SDHC/SDXC CARD Single Image Recording (JPEG)Video(AVI, LCK)
LED Indicator:	Power, link, active
Input/Output sockets:	Micro Card slot, All in one cable: RJ45 Plug, 2 Pin Power Connector, 4 Pin Alarm I/O, Audio I/O 2 x mini jack plug
Firmware Upgrade:	Firmware upgrade by Web Browser
Configuration:	Upload & Download configuration on remote PC
Multi Language Webpage::	English, German, French, Italian, Russian
Video Text Overlay:	Text string (15 character), Subtitel (5 lines @ 16 character)
Mount:	Ceiling , wall
Protection Rating:	IP 66 / IK 10 (for metal casing)
Regulation:	CE, RoHS Compliant  10 ~ 90% no condensation
Humidity: Operating Temperature:	10 ~ 90% no condensation -10°C ~ +50°C
Supply Voltage:	PoE (IEEE 802.3af), 12VDC
Power Consumption (W):	7.1
Weight:	0.330 kg - 0.73 lbs
Dimensions:	117 x 43 mm - 4.61 x 1.69 ln



#### 2 MP Full HD Integrated IP-Camera 3~8mm Mzoom Ultra Low Light

- Ultra low light camera
- $\bullet$  EXMORTM sensor for low light sensitivity, XARINATM DSP for advanced features
- WDR (Wide Dynamic Range) for extreme backlight situations
- 3 Way Axis cable management bracket, wall mountable
- Weatherproof Outdoor Installation (IP66)
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- ONVIF Profile S compliant for maximum compatibility with VMS







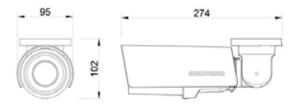








#### **DIMENSIONS (mm)**



#### **ACCESSORIES**

GBR-JB01W GBR-JB02P





Image Sensor:	1/1.9" ExmorRS™ Sensor
Pixels - Total:	1920(H) x 1080(V)
Digital Signal Processor (DSP):	Sony Xarina Solution
Sensitivity Colour:	0.01 Lux@F1.5(IRE30), 0.05 Lux@F1.5(IRE50)
Sensitivity B/W:	0.0005 Lux@F1.5 (IRE30), 0.005 Lux@ F1.5 (IRE50)
Lens Drive Type:	Motorized Zoom & Focus
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Lens Focal Length:	3.3 ~ 8 mm
Horizontal Viewing Angle:	115° (Wide) ~ 56° (Tele)
Optical Zoom Ratio:	x 2.4
Digital Zoom:	Off/2 ~ 16x
Iris F-Number:	F= 1.5 ~ 360 One-Shot AF / Manual
Focus Adjustment: IR LED:	24 pcs.
Max. IR Distance:	20/30m (according to scene reflexion)
Wavelength:	850nm
Shutter Speed:	1 ~ 1/10.000 sec
WDR:	120dB
BLC Back Light:	On/Off
White Balance:	AWB, Auto no boundery,ATW, Indoor, Outdoor, Manual
DIS: Digital Image Stabilization:	yes
Privacy zones:	5 zones, rectangle
Alarm Trigger:	Alarm Input, Motion Detection, Network Failure detection, Tampering Alarm, Time lapse, Manual Trigger
Motion Detection:	On, Off, by Schedule
Tampering Alarm:	On, Off, by Schedule
Time Lapse:	Off, On (60~3600s)
Schedule:	Single Day or Week, Time (Start, Duration), DAY or NIGHT Mode
Network failure detection:	On, Off, by Schedule
Manual Trigger:	On, Off
Reverse:	Normal, Flip, Mirror, Vertical Mode, 180°
Digital Noise Reduction:	2DNR/3DNR: Off/Low/Mid/High
Camera ID:	15 character, 1 lines
Alarm Event:	Enable Alarm Output, Send message by FTP or/and Email, Upload image by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Off, Record to Micro SD Card
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Number of Clients:	Up to 20 simultaneously
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
ONVIF compliant:	Profile S
Video Streaming:	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG
Video Resolution:	Full HD 1080p/ SXGA/ HD 720p/ XGA/SVGA/ D1/ VGA/ CIF/ QCIF
Frame Rate (Max@Resolution):	50/60fps@2MP, 25/30fps@2MP, 50/60fps@1,3MP, 25/30fps@1,3MP, etc.
Streaming Method:	Unicast, Multicast
Network Protocol:	ARP, DHCP, FTP, HTTP, HTTPS, ICMP, IEEE 802.1 X, IGMP, IPv4/IPv6, ONVIF, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP G.711, G.726
Audio Compression: Firmware Upgrade:	by Web Browser or Grundig finder (from ver.1.17)
Audio Communication:	Bi-directional
Configuration:	by web interface
Multi Language Webpage::	English, German, French, Italian, Russian, Turkish
Audio Input/Output:	Line In/Line Out (two way Audio)
Alarm Input/Output:	1/1
Recording Types::	on Micro SD/SDHC CARD Single Image Recording (JPEG)Video(AVI)
Web Browser:	MS Internet Explorer 6.0 (or higher)
NAS Recording::	Yes
Network Interface:	1x 10/100 Base T/TX (RJ-45)
Video Outputs:	Test Monitor Output
LED Indicator:	Power, link, active
Input/Output sockets:	Power(Terminal 3-Pin), RJ-45, Micro SD Card Slot, Alarm Terminal 4-Pin(Alarm In 2-Pin, Alarm Out 2-Pin), Audio IN Stereo phone jack Ø3,5mm, Audio Out Stereo phone jack Ø3,5mm
Protection Rating:	IP66
Regulation:	CE, RoHS Compliant
Humidity:	10 ~ 90% no condensation
Operating Temperature:	-40°C ~ +50°C
Supply Voltage: Power Consumption (W):	24 Vac, PoE+ (IEEE 802.3at) max. 20
Power Consumption (W): Weight:	max. 20 1 kg - 2.2 lbs
Dimensions:	95 x 274 mm - 3.74 x 10.79 ln



#### 3 MP Full HD Integrated IP-Cam 3~9mm AFZ Modul P-Iris ICR IR LED

- 3 Megapixel IP Camera with Full HD 1080P real time video streaming
- Tamron P-Iris lens with Auto Focus Zoom Modul, for easy and precise remote settings
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- Weatherproof Outdoor Installation (IP66)
- ONVIF Profile S protocol support, the most open Ip camera standard
- Bidirectional Audio Support







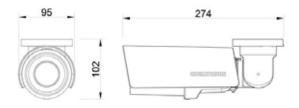








#### **DIMENSIONS (mm)**



#### **ACCESSORIES**

GBR-JB01W GBR-JB02P





Image Sensor:	1/2.8" Sony Exmor™ CMOS, 3 Megapixel
Pixels - Total:	2048 (H) x 1536 (V)
Sensitivity Colour:	0.04 Lux @ F1.7 (IRE30)
Sensitivity B/W:	0.002 Lux@F1.7 (IRE30)
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Lens Focal Length:	3 ~ 9 mm 107° (Wide) ~ 38° (Tele)
Horizontal Viewing Angle: Optical Zoom Ratio:	107" (Wide) ~ 38" (Tete) x 3
Digital Zoom:	Off/1 ~ 10x
Iris F-Number:	F= 1.7 ~ 360
Lens Drive Type:	Tamron® Auto-Focus-Zoom Module, P-Iris
Focus Adjustment:	Auto, Manual
IR LED:	6 pcs., 95° illumination angle
Max. IR Distance:	40 m
Wavelength: Shutter Speed:	850nm 1 ~ 1/10.000 sec
WDR:	120dB
BLC Back Light:	On/Off
White Balance:	ATW, AWB, Manual, One Push
Digital Noise Reduction:	2DNR: ON/OFF, 3DNR/ColorNR: Off/Low/Mid/High
Motion Detection:	On, Off, by Schedule
Alarm Input:	On, Off, by Schedule
Tampering Alarm:	On, Off, by Schedule
Time Lapse: Manual Trigger:	Off, On (60~3600s) On, Off
Audio detection:	Off, On
Schedule:	Single Day or Week, Time (Start, Duration), DAY or NIGHT Mode
Camera ID:	20 character
Reverse:	Normal, Flip, Mirror, Vertical Mode (90°clockwise,90° counter clockwise), 180°
Privacy zones:	5 zones, rectangle
Network Interface:	1x 10/100 Base T/TX (RJ-45)
Alarm Event:	Alarm Input, Motion Detection or Schedule: Image transfer or alarm message by FTP, Image transfer or alarm message by E-mail, recording on SD-card and enable alarm output
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
ONVIF compliant:	Profile S
Video Streaming:  Video Resolution:	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264 MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG 2048x1536 [30/25fps], 1920x1080 [30/25fps], 1280x1024 [30/25fps],
Frame Rate (Max@Resolution):	1280x720 (30/25fps),etc. H.264: 30fps@3MP, 30fps@2MP, 30fps@1,3MP, etc. MJPEG: 30fps@2MP,
Streaming Method:	30fps@1,3MP, etc. Unicast, Multicast
Audio Compression:	G.726. G.711
Audio Communication:	Bi-directional
Audio Input/Output:	Line In/Line Out (two way Audio)
Alarm Input/Output:	1/1
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Number of Clients:	Up to 20 simultaneously supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32)
SD memory: NAS Recording::	format)  Yes
Recording Types::	on Micro SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK)
Web Browser:	on NAS: Video (AVI)  MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari,  Access over Mobile Devices
Network Protocol:	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, UPnP, SMTP, ICMP, IGMP, SNMP, IEEE802.1x, QoS, ONVIF, FTP, ARP
Firmware Upgrade: Configuration:	Firmware upgrade by Web Browser or Grundig finder ver.1.17 by web interface
Multi Language Webpage::	English, German, French, Italian, Russian, Turkish
LED Indicator:	Power, link, active
Input/Output sockets:	Video Out(BNC), Power(2-Pin Term), RJ-45, Micro SDHC Card Slot, Alarm Terminal 5-Pin (Alarm In 3-Pin, Alarm Out 2-Pin), Audio (2 mini Jack 3.5mm)
Protection Rating:	IP66
Operating Temperature:	-40°C ~ +55°C
Operating Humidity:	10% ~ 90%, non-condensing CE, RoHS Compliant
Regulation: Supply Voltage:	12 VDC / 24 VAC, PoE+ (IEEE 802.3at)
Power Consumption (W):	max. 24
Weight:	1 kg - 2.2 lbs
Dimensions:	95 x 274 mm - 3.74 x 10.79 ln



#### 3 MP Full HD Integrated IP-Cam 9~22mm AFZ Modul ICR IR LED WDR

- 3 Megapixel IP Camera with Full HD 1080P real time video streaming
- Motorized Vario Focal lens

GCI-F0587TH

- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- Weatherproof Outdoor Installation (IP66)
- Bidirectional Audio Support







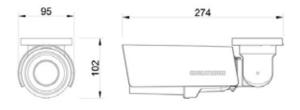








#### DIMENSIONS (mm)



#### **ACCESSORIES**

GBR-JB01W GBR-JB02P





Imaga Cansas	1/2 0" Capy EymarTM CMAC 2 Magaziyal
Image Sensor: Pixels - Total:	1/2.8" Sony Exmor™ CMOS, 3 Megapixel 2048 (H) x 1536 (V)
Sensitivity Colour:	0.3 lux @ 50IRE F1.65, 0,0004 lux sens up 512x
Sensitivity B/W:	0.07 lux @ 50IRE F1.65, 0.0001 lux Sens-Up 512x
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Lens Focal Length:	9 ~ 22 mm
Horizontal Viewing Angle:	33° (Wide) ~ 14° (Tele) Off ~ 8x
Digital Zoom: Iris F-Number:	F= 1.6 ~ 360
Lens Drive Type:	Auto iris (DC), Motorized Zoom & Focus
Focus Adjustment:	Auto, Manual
IR LED:	6 pieces high efficiency PWM
Max. IR Distance:	40/50 m (according to scene reflexion)
Wavelength:	850nm
Shutter Speed:	1 ~ 1/10.000 sec
WDR:	120dB
BLC Back Light: White Balance:	On/Off ATW, AWB, Manual, Push, ATW, AWB, Manual, One Push
Digital Noise Reduction:	On/off 2D/3D Noise Filter
Motion Detection:	On, Off, by Schedule
Alarm Input:	On, Off, by Schedule
Tampering Alarm:	On, Off, by Schedule
Time Lapse:	Off, On (60~3600s)
Manual Trigger:	On, Off
Audio detection:	Off, On
Schedule: Camera ID:	Single Day or Week, Time (Start, Duration), DAY or NIGHT Mode
	20 character  Normal, Flip, Mirror, Vertical Mode (90°clockwise,90° counter clockwise),
Reverse:	180°
Privacy zones:	5 zones, rectangle
Network Interface:	1x 10/100 Base T/TX (RJ-45)  Alarm Input, Motion Detection or Schedule: Image transfer or alarm
Alarm Event:	message by FTP, Image transfer or alarm message by E-mail, recording on SD-card and enable alarm output
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
ONVIF compliant:	Profile S  Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264
Video Streaming:  Video Resolution:	MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG 2048x1536 (30/25fps), 1920x1080 (30/25fps), 1280x1024 (30/25fps),
Frame Rate (Max@Resolution):	1280x720 (30/25fps),etc. 25fps@3MP, 25fps@2MP, 25fps@1,3MP, etc.
Streaming Method:	Unicast, Multicast
Audio Compression:	G.726, G.711
Audio Communication:	Bi-directional
Audio Input/Output:	Line In/Line Out (two way Audio)
Alarm Input/Output:	1/1
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Number of Clients:	Up to 20 simultaneously supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32)
SD memory: NAS Recording::	format)  Yes
Recording Types::	on Micro SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK)
Web Browser:	on NAS: Video (AVI) MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices
Network Protocol:	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DHCP, PPPoE, UPnP, SMTP, ICMP, IGMP, SNMP, IEEE802.1x, QoS, ONVIF, FTP, ARP
Firmware Upgrade:	Firmware upgrade by Web Browser or Grundig finder ver.1.17
Configuration:	by web interface
Multi Language Webpage:: LED Indicator:	English, German, French, Italian, Russian, Turkish Power, link, active
Input/Output sockets:	Video Out(BNC), Power(3-Pin Term), RJ-455, Micro SDHC Card Slot, Alarm Terminal 4-Pin (Alarm In 2-Pin, Alarm Out 2-Pin), Audio (2 mini Jack 3.5mm)
Protection Rating:	IP66
Operating Temperature:	-40°C ~ +55°C
Operating Humidity:	10% ~ 90%, non-condensing
Regulation: Supply Voltage:	CE, RoHS Compliant PoE (IEEE 802.3af), 12 VDC / 24 VAC
Power Consumption (W):	max. 24
Weight:	1 kg - 2.2 lbs
Weight: Dimensions:	1 kg - 2.2 lbs 95 x 274 mm - 3.74 x 10.79 ln



#### 3MP Intelligent IP Bullet Outdoor Camera with IR LED, WDR

- Motorized Vario Focal lens (Zoom & Focus), DC Iris
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- WDR (Wide Dynamic Range) for extreme backlight situations
- Embedded analytics: face detection, audio detection, advanced motion, tampering
- IR LEDs Integrated with Smart-IR Control
- ONVIF protocol support

















#### **ACCESSORIES**

GBR-JB03W GBR-PM04 GBR-CM04







Image Sensor:	1/2.8" Progressive Scan CMOS
Pixels - Total:	2048 (H) x 1536 (V)
Sensitivity Colour:	0.05 Lux@F1.4
Sensitivity B/W:	0.005 lux@F1.4
Shutter Speed:	1/3 ~ 1/100,000 sec
Col/B:	Auto, IR-cut filter removable (ICR)
Lens Focal Length:	2.8 ~ 12 mm
Iris F-Number:	F= 1.2 ~ 360
Lens Drive Type:	Motorized Zoom & Focus, Manual iris
Horizontal Viewing Angle:	94.5° (Wide) ~ 30.5° (Tele)
IR LED:	4 pcs. Extrem Led's
Max. IR Distance:	50 m
BLC Back Light:	On/Off, Area
WDR:	120dB
Digital Noise Reduction:	3D-DNR, auto
Reverse:	Normal, Flip, Mirror, Vertical Mode, 180°
AGC:	Adjustable
White Balance:	Auto/Off
Privacy zones:	4 zones, rectangle
ŕ	Tampering, Virtual line, Enter/Exit, Appear / Disappear,
Intelligent Video Analytics:	Audio detection, Face detection, network disconnect, IP address conflict, storage exception
Image settings:	Rotate mode, saturation, brightness, contrast, grayscale
	adjustable through client software or web browser
OSD:	Yes
Video Compression:	H.264, MJPEG, H.264+
Video Streaming:	Triple Stream, H.264 and MJPEG
Video Resolution:	Main: 2048x1536 (45fps), 1920x1080 (50/60fps), 1280x960 (50/60fps), 1280x720 (50/60fps), Sub: 704x576(50/60fps), 640x480(50/60fps), 352x288(50/60fps), Third Stream: 2048x1536 (50/60fps), 1920x1080 (50/60fps), 1280x720
Network Streaming:	(50/60fps), 704x5076 (50/60fps), 352x288(50/60fps)  TCP, UDP (Unicast, Multicast)
Bit Rate:	Mainstream: 256kbps~16384kbps, Substream:
	32kbps~8192Mbps, Third Stream: 256kbps~16384kbps
Audio Compression:	G.711 (64kbps) / G.726 (16kbps) / MP2L2
Audio Input/Output:	Line In/Line Out (two way Audio)
Alarm Trigger:	Motion detection, Tampering, Network disconnect, Alarm Input, IP address conflict, Storage error, Intelligent video analytics, Audio detection, Time lapse DHCP, TCP/IP, RTP, NTP, PPPoE, HTTP, RTSP, UPnP,
Network Protocol:	SNMP, HTTPS, DNS, IPv4/IPv6, DDNS, IGMP, QoS, RTCP, IEEE 802.1 X, ICMP, Bonjour
System Compatibility:	CGI, ONVIF, PSIA
ONVIF compliant:	Profile S, Profile G
Web Browser:	MS Internet Explorer 7.0 (or higher)
Security:	HTTPS, IP FILTER, IEEE802.1x, Admin/User account
Firmware Upgrade:	Firmware upgrade by Web Browser
Alarm Input/Output:	1/1
Video Outputs:	1Vpp, BNC
SD memory:	supports up to 128 GB capacity of micro SD/SDHC/SDXC memory
Recording:	H.264, Image Capture (Time-Lapse), JPEG format, Support NAS Server
Network Interface:	1x 10/100 Base T/TX (RJ-45)
Protection Rating:	IP67
Operating Temperature:	-30°C ~ +60°C
Humidity:	less than 90%, non condensing
Supply Voltage:	PoE (IEEE 802.3af), 12VDC
Dimensions (WxHxD):	104 x 100 x 312 mm - 4.09 x 3.94 x 12.28 ln:
Power Consumption (W):	12
Weight:	2.00 kg - 4.41 lbs



#### 4 MP Mini Bullet Outdoor Camera with IR LEDs **WDR**

- 4 Megapixel IP Camera with Full HD 1080P real time video
- H.264 & MJPEG compression modes
- Lens: f = 4 mm, 83°

GCI-L46171

- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- Weatherproof Outdoor Installation (IP67)
- Built in analytics function, motion detection, trip wire, intrusion detection, tamper detection



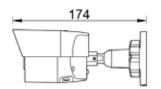


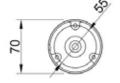






#### **DIMENSIONS (mm)**





#### **ACCESSORIES**

GBR-JB03W



Image Sensor:	1/3" Progressive Scan CMOS
Pixels - Total:	2688(H) x 1520 (V)
Sensitivity Colour:	0.01 lux @ F1.2 (AGC 0N)
Sensitivity B/W:	0 Lux LED IR on
Col/B:	Auto/Timing/B&W/Color
Lens Focal Length:	4 mm
Horizontal Viewing Angle:	83°
Iris F-Number:	F 2.0
High Speed Shutter:	1/3 ~ 1/10.000 sec
IR LED:	30 pcs.
Max. IR Distance:	up to 30m
Wavelength:	850nm
BLC Back Light:	On/ Off/ Area/ Level
WDR:	120dB
Digital Noise Reduction:	3D-DNR, auto
White Balance:	Manual, AWB1, AWB2, Locked WB, Fluorescente lamp,
	Incandescent lamp, Warm light, Natural light
Reverse:	Normal, Flip, Mirror, Vertical Mode, 180°
Video Text Overlay:	Text string (28 character), Subtitel (1 lines @ 44 character)
Privacy zones:	4 zones, rectangle
ROI encoding:	Support
Video Compression:	H.264, MJPEG, H.264+
Video Streaming:	Dual stream: H.264 + H.264 or H.264 + MJPEG
	Main: 2688x1520 (20/20fps), 2048x1536 (20/20fpsfps),
Video Resolution:	1920x1080 (25/30fps), 1280x720 (25/30fps), Sub:
	1280x720(25/30fps), 640x480(25/30fps), 352x288(25/30fps), 320x240(25/30fps)
=-	Mainstream: 32kbps~16384kbps, Substream:
Bit Rate:	32kbps~8192Mbps
	Motion detection, Tampering, Network disconnect, IP
Alarm Trigger:	address conflict, Storage error, Line crossing Detection,
	Intrusion detection  Regiour CGL DDNS DHCP DNS FTP HTTP HTTPS
	Bonjour, CGI, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IEEE 802.1 X, IGMP, IPv4/IPv6, NTP, ONVIF,
Network Protocol:	PPPoE, PSIA, QoS, RTCP, RTP, RTSP, SNMP, TCP/IP,
	UPnP
System Compatibility:	CGI, ONVIF, PSIA
ONVIF compliant:	Profile S, Profile G
Web Browser:	MS Internet Explorer 7.0 (or higher)
Security:	HTTPS, IP FILTER, IEEE802.1x, Admin/User account
Network Interface:	1x 10/100/1000 Base T/TX (RJ-45)
Protection Rating:	IP67
Operating Temperature:	-30°C ~ +60°C
Humidity:	less than 90%, non condensing
Supply Voltage:	PoE (IEEE 802.3af), 12VDC
Power Consumption (W):	5
Weight:	0.5 kg - 1.1 lbs
Dimensions:	0.5 kg - 1.1 lbs 70 x 171 mm - 2.76 x 6.73 ln
Dimensions:	/U X 1/1 IIIIII - 2./6 X 6./3 IN



#### 4 MP Bullet Outdoor Camera with IR LEDs WDR

- 4 Megapixel IP Camera with Full HD 1080P real time video
- H.264 & MJPEG compression modes
- Varifocal Lens: f = 2.8 12 mm
- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- Weatherproof Outdoor Installation (IP67)
- Built in analytics function, motion detection, trip wire, intrusion detection, tamper detection





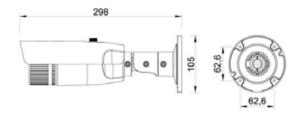








#### **DIMENSIONS (mm)**



#### **ACCESSORIES**

GBR-JB03W GBR-CM04 GBR-PM04







Image Sensor:	1/3" Progressive Scan CMOS
Pixels - Total:	2688(H) x 1520 (V)
Sensitivity Colour:	0.01 lux @ F1.2 (AGC ON), 0.014 lux @ F1.4 (AGC ON)
Sensitivity B/W:	0 Lux LED IR on
Col/B:	Auto/Timing/B&W/Color
Lens Focal Length:	2.8 ~ 12 mm
Horizontal Viewing Angle:	112°(Wide) ~ 33.8°(Tele)
Iris F-Number:	F= 1.4
High Speed Shutter:	1/3 ~ 1/10.000 sec
IR LED:	42 pcs.
Max. IR Distance:	30 m
Wavelength:	850nm
BLC Back Light:	On/ Off/ Area/ Level
WDR:	120dB
Digital Noise Reduction:	3D-DNR, auto
White Balance:	Manual, AWB1, AWB2, Locked WB, Fluorescente lamp,
wille balance:	Incandescent lamp, Warm light, Natural light
Reverse:	Normal, Flip, Mirror, Vertical Mode, 180°
Video Text Overlay:	Text string (28 character), Subtitel (1 lines @ 44 character)
Privacy zones:	4 zones, rectangle
Video Compression:	H.264, MJPEG, H.264+
Video Streaming:	Dual stream: H.264 + H.264 or H.264 + MJPEG
Video Resolution:	Main: 2688x1520 (20/20fps), 2048x1536 (20/20fpsfps), 1920x1080 (25/30fps), 1280x720 (25/30fps), Sub: 1280x720(25/30fps), 640x480(25/30fps), 352x288(25/30fps), 320x240(25/30fps)
Bit Rate:	Mainstream: 32kbps~16384kbps, Substream: 32kbps~8192Mbps
Alarm Trigger:	Motion detection, Tampering, Network disconnect, IP address conflict, Storage error, Line crossing Detection, Intrusion detection
Network Protocol:	Bonjour, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, IEEE 802.1 X, IGMP, IPv4/IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP
System Compatibility:	CGI, ONVIF, PSIA
ONVIF compliant:	Profile S, Profile G
Web Browser:	MS Internet Explorer 7.0 (or higher)
Security:	HTTPS, IP FILTER, IEEE802.1x, Admin/User account
SD memory:	supports up to 128 GB capacity of micro SD/SDHC/SDXC memory
Network Interface:	1x 10/100 Base T/TX (RJ-45)
Protection Rating:	IP67
Operating Temperature:	-30°C ~ +60°C
Humidity:	less than 90%, non condensing
Supply Voltage:	PoE (IEEE 802.3af), 12VDC
Power Consumption (W):	7.5

1.2 kg - 2.65 lbs

105 x 298 mm - 4.13 x 11.73 ln

Weight:

Dimensions:



#### 4MP Bullet Outdoor Camera with IR LEDs, WDR

- 4 Megapixel IP Camera with real time video streaming
- H.264 & MJPEG compression modes
- Motorized Vario Focal lens

GCI-L4687T

- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- Weatherproof Outdoor Installation (IP67)
- Built in analytics function, motion detection, trip wire, intrusion detection, tamper detection





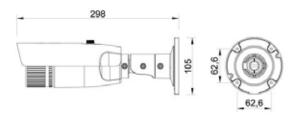








#### **DIMENSIONS (mm)**



#### **ACCESSORIES**

GBR-JB03W GBR-CM04 GBR-PM04







Image Sensor:	1/3" Progressive Scan CMOS
Pixels - Total:	2688(H) x 1520 (V)
Sensitivity Colour:	0.01 lux @ F1.2 (AGC ON)
Sensitivity B/W:	0 Lux LED IR on
Col/B:	Auto/Timing/B&W/Color
Lens Focal Length:	2.8~12 mm Motorized vario lens
Horizontal Viewing Angle:	112°(Wide) ~ 33.8°(Tele)
Iris F-Number:	F= 1.4
Iris Operation:	Auto iris (DC)
High Speed Shutter:	1/3 ~ 1/10.000 sec
IR LED:	42 pcs.
Max. IR Distance:	30 m
Wavelength:	850nm
BLC Back Light:	On/ Off/ Area/ Level
WDR:	120dB
Digital Noise Reduction:	3D-DNR, auto
White Balance:	Manual, AWB1, AWB2, Locked WB, Fluorescente lamp,
	Incandescent lamp, Warm light, Natural light
Reverse:	Normal, Flip, Mirror, Vertical Mode, 180°
Video Text Overlay:	Text string (28 character), Subtitel (1 lines @ 44 character)
Privacy zones:	4 zones, rectangle
Video Compression:	H.264, MJPEG, H.264+
Video Streaming:	Dual stream: H.264 + H.264 or H.264 + MJPEG
Video Resolution:	Main: 2688x1520 (20/20fps), 2048x1536 (20/20fpsfps), 1920x1080 (25/30fps), 1280x720 (25/30fps), Sub: 1280x720(25/30fps), 640x480(25/30fps), 352x288(25/30fps), 320x240(25/30fps)
Bit Rate:	Mainstream: 32kbps~16384kbps, Substream: 32kbps~8192Mbps
Alarm Trigger:	Motion detection, Tampering, Network disconnect, IP address conflict, Storage error, Line crossing Detection, Intrusion detection
Network Protocol:	Bonjour, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, IEEE 802.1 X, IGMP, IPv4/IPv6, NTP, PPPoE, QoS, RTCP, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP
System Compatibility:	CGI, ONVIF, PSIA
ONVIF compliant:	Profile S, Profile G
Web Browser:	MS Internet Explorer 7.0 (or higher)
Security:	HTTPS, IP FILTER, IEEE802.1x, Admin/User account
SD memory:	supports up to 128 GB capacity of micro SD/SDHC/SDXC memory
Network Interface:	1x 10/100 Base T/TX (RJ-45)
Protection Rating:	IP67
Operating Temperature:	-30°C ~ +60°C
Humidity:	less than 90%, non condensing
Supply Voltage:	PoE (IEEE 802.3af), 12VDC
Dimensions ( W x H x D):	95 x 105 x 259 mm - 3.74 x 4.13 x 10.2 ln:
Power Consumption (W):	7.5

7.5 1.2 kg - 2.65 lbs



#### 8 MP Ultra HD Integrated IP-Camera 3.5~8mm motor. lens P-Iris ICR IR LED

- 4K Resolution for super detailed images
- Motorized Vario Focal lens (Zoom & Focus), P- Iris
- Infrared Power LED for wide angle and long distance IR
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- ONVIF Profile S compliant for maximum compatibility with VMS
- SD/SDHC/SDXC memory card slot for alarm and schedule image recording
- Weatherproof Outdoor Installation (IP66)













#### DIMENSIONS (mm)



#### **ACCESSORIES**

GBR-JB01W GBR-JB02P





Image Sensor:	1/1.7" Sony Progressive CMOS 12 MP
Pixels - Total:	3840(H) x 2160(V)
Sensitivity Colour:	0.05 Lux@F1.45(IRE30), 0.5 Lux@F1.45(IRE50)
· ·	0.005 Lux@F1.45(IRE30), 0.05 Lux@F1.45(IRE50)
	On/Off/Auto, IR-cut filter removable (ICR)
	3.5 ~ 8 mm
	116° (Wide) ~ 52° (Tele) F= 1.45 ~ 360C
	Motorized Zoom & Focus, P-Iris
	Off/1 ~ 10x
<del>-</del>	1 ~ 1/10.000 sec
·	6 pcs., 95° illumination angle
	50 m
Wavelength:	850nm
BLC Back Light:	On/Off
WDR:	72dB (Digital Wide Dynamic Range) Off/Low/Middle/High
White Balance:	ATW, AWB, Manual, One Push
Privacy zones:	5 zones, rectangle
Digital Noise Reduction:	2DNR: ON/OFF, 3DNR/ColorNR: Off/Low/Mid/High
DIS: Digital Image Stabilization:	yes
Video Text Overlay:	Text string (15 character), Subtitel (5 lines @ 16 character)
Alarm Trigger:	Alarm Input, Motion Detection, Network Failure detection, Tampering Alarm, Time lapse, Manual Trigger, Audio detection
Schedule:	Daily, Weekly, Start Time and Duration
Alarm Event:	Enable Alarm Output, Send message by FTP or/and Email, Upload image by FTP or/and Email, Send HTTP notification, IR CUT filter switch On/Off,
Reverse:	Record to Micro SD Card  Normal, Flip, Mirror, Vertical Mode (90°clockwise,90° counter clockwise), 180°
Video Compression:	H.264 (MPEG-4Part 10/AVC), MJPEG
·	Profile S
•	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264
Video Resolution:	MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG 8MP(3840x2160)/5,7MP(3200x1800)/Full HD 1080p/SX6A/HD720p/XGA/SVGA/4CIF/VGA/CIF/QVGA
Frame Rate (Max@Resolution):	25fps@8MP, 25fps@5,7MP, 50fps@2MP, 50fps@1,3MP,50fps@HD720p, 50fps@X6A, etc.
Streaming Method:	Unicast, Multicast
Audio Compression:	G.726, G.711
Audio Communication:	Bi-directional
Audio Input/Output:	Line In/Line Out (two way Audio)
Alarm Input/Output:	1/1
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Number of Clients:	Up to 20 simultaneously
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat(fat32) format)
NAS Recording::	Yes
Recording Types::	on Micro SD/SDHC CARD: Single Image Recording (JPEG), Video(AVI, LCK) on NAS: Video (AVI)
Web Browser:	MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari, Access over Mobile Devices
Network Protocol:	ARP, DHCP, FTP, HTTP, HTTPS, ICMP, IEEE 802.1 X, IGMP, IPv4/IPv6, ONVIF, PPPoE, QoS, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP
· =	by Web Browser or Grundig finder (from ver.1.17)
	Upload & Download configuration on remote PC
	English, German, French, Italian, Russian
Input/Output sockets:	1/pp, BNC Video Out(BNC), Power(3-Pin Term), RJ-45, Micro SDHC Card Slot, Alarm Terminal 4-Pin (Alarm In 2-Pin, Alarm Out 2-Pin), Audio (2 mini Jack 3.5mm)
Regulation:	CE, RoHS Compliant
	ID//
Protection Rating:	IP66
Protection Rating: Operating Temperature:	-25°C ~ +55°C
3	
Operating Temperature:	-25°C ~ +55°C
	Pixels - Total: Sensitivity Colour: Sensitivity B/W: Col/B: Lens Focal Length: Horizontal Viewing Angle: Iris F-Number: Lens Drive Type: Digital Zoom: Shutter Speed: IR LED: Max. IR Distance: Wavelength: BLC Back Light: WDR: White Balance: Privacy zones: Digital Noise Reduction: DIS: Digital Image Stabilization: Video Text Overlay: Alarm Trigger: Schedule: Alarm Event: Reverse: Video Compression: ONVIF compliant: Video Streaming: Video Resolution: Frame Rate [Max@Resolution]: Streaming Method: Audio Communication: Audio Communication: Audio Input/Output: Alarm Input/Output: Access protection: Number of Clients: SD memory: NAS Recording:: Recording Types:: Web Browser: Network Protocol: Firmware Upgrade: Configuration: Multi Language Webpage:: Video Outputs: Input/Output sockets:

1 kg - 2.2 lbs 95 x 274 mm - 3.74 x 10.79 ln

Weight:

#### GCI-K2795P-1



#### 2 MP Full HD Outdoor Motorized lens dome IP

- Full HD, 1920 x 1080p, 30/25 fps
- 30x motorized optical zoom with 12x digital Zoom
- WDR function, Colour/B&W function with removable IR cut filter
- Digital Image Stabilization
- H.264 & MJPEG compression modes
- Vandal- and weather-proof
- High Speed Pan/Tilt (400°/sec), minimum speed (0.5°/sec)
- Power-over-Ethernet support







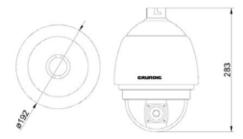








#### DIMENSIONS (mm)



#### **ACCESSORIES**

GBR-WA02 GBR-CE01 GBR-AM02

GBR-PM01









Image Sensor:	1/2.8" CMOS Sony Exmor™ Progressive Scan
Pixels - Total:	1920(H) x 1080(V)
Sensitivity Colour:	0.02 lux @ F1.4 (IRE50)
Sensitivity B/W:	0.005 lux@F1.4 (IRE50)
Col/B:	On/Off/Auto, IR-cut filter removable (ICR)
Lens Focal Length: Horizontal Viewing Angle:	4.4 ~ 132 mm 60.5° (Wide) ~ 2.3° (Tele)
Optical Zoom Ratio:	x 30
Digital Zoom:	12x
Lens Drive Type:	DC Auto Iris
Iris F-Number:	F= 1.4 ~ 360
Focus Adjustment:	Auto, Manual
BLC Back Light:	On/Off + WDR
Shutter Speed:	1 ~ 1/10.000 sec
Pan Speed: Tilt Speed:	Manual: 0.5°/s ~ 90°/s, Preset: 400°/s (max.) Manual: 0.5°/s ~ 90°/s,Preset: 400°/s (max.)
Range Panning:	360° endless
Range Tilting:	-10° ~ 190°
Number of Preset:	256
Preset Accuracy:	0.225°
Number of Pattern:	8
Number of Auto PAN:	4
Number of Cruise:	8
Home position:	Preset/Sequence/Auto Pan/Cruise
Auto Flip: AGC:	Image/Mechanic/Off Off, 3–57dB
WDR:	120dB
White Balance:	Auto, Manual, Indoor, Outdoor, ATW
Digital Noise Reduction:	2DNR/3DNR (0ff/0n)
Digital Image Stabilization (DIS):	Off/On
Number of Privacy Zones:	16
Motion Detection:	On/ Off/ Sensitivity/ 10 Area setting/ by schedule
Alarm Trigger:	Alarm Input, Motion Detection, Network Failure detection, Time lapse,
Schedule:	Manual Trigger, Audio detection Single Day or Week, Time (Start, Duration), DAY or NIGHT Mode
Alarm Event:	Alarm Input, Motion Detection or Schedule: Image transfer or alarm message by FTP, Image transfer or alarm message by E-mail, recording on SD-card and enable alarm output
Video Text Overlay:	Text string (20 character), Subtitel (5 lines @ 16 character)
Reverse:	Flip, Mirror, 180°
Input/Output sockets:	Power (Terminal 3-Pin), RJ-45, Micro SD Card Slot, Alarm Terminal (12-Pin Alarm IN/5-Pin, Alarm OUT/7-Pin), Audio IN/OUT (3-Pin Terminal)
Network Interface: Video Compression:	1x 10/100/1000 Base T/TX (RJ-45) H.264 (MPEG-4Part 10/AVC), MJPEG
•	Quad stream: 4xH.264 or 3xH.264 MJPEG Triple: 3xH.264 or 2xH.264
Video Streaming:	MJPEG Dual: 2xH.264 or H.264 MJPEG Single: H.264 or MJPEG 1920x1080 (30/25fps), 1280x1024 (30/25fps), 1280x720 (30/25fps), 1024x768
Video Resolution:	(30/25fps),etc., Full HD 1080p/ SXGA/ HD 720p/ XGA/SVGA/ D1/ VGA/ CIF/ QCIF
Frame Rate (Max@Resolution):	25fps@2MP, 50fps@1,3MP, etc.
Streaming Method: Audio Compression:	Unicast, Multicast G.711, G.726
Audio Compression: Audio Communication:	Bi-directional
Audio Input/Output:	Line In/Line Out (two way Audio)
Alarm Input/Output:	4/2
Access protection:	By log-in and Password, IP filter, IEEE802.1x
Number of Clients:	Up to 20 user, 1 x Admin
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory (vfat[fat32] format]
Recording Types::	on Micro SD/SDHC/SDXC CARD Single Image Recording (JPEG)Video(AVI, LCK)
Web Browser:	MS Internet Explorer 6.0 (or higher), Firefox, Google Chrome, Safari ARP, DHCP, FTP, HTTP, HTTPS, ICMP, IEEE 802.1 X, IGMP, IPv4/IPv6.
Network Protocol:	ONVIF, PPPoE, QoS, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP
Firmware Upgrade:	Firmware upgrade by Web Browser
Configuration: Protection Rating:	Over Web Browser, Upload & Download configuration file IK10, IP66
Protection Rating: Regulation:	CE, RoHS Compliant
Operating Temperature:	-40°C ~ +50°C
Supply Voltage:	24 VAC / hPoE (60W)
Power Consumption (W):	60
Weight:	2.32 kg - 5.11 lbs
Dimensions:	192 x 283 mm - 7.56 x 11.14 ln



#### 3MP Intelligent IP Outdoor PTZ Dome Camera

- 36x motorized optical zoom with 16x digital zoom
- Panspeed (540°/sec) / Tiltspeed (400°/sec), minimum speed (0.1°/sec)
- Privacy Zone Masking Function
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- WDR (Wide Dynamic Range) for extreme backlight situations
- Intelligent Video Content Analysis with Motion Tracking
- Power-over-Ethernet support















GBR-WA08 GBR-WA08C GBR-WA08J GBR-WA08JC









GBR-WA08JP GBR-WA08P

GBR-CE08L











Image Sensor:	1/3" Progressive Scan CMOS
Pixels - Total:	2048 (H) x 1536 (V)
Sensitivity Colour:	0.05 Lux@F1.6
Sensitivity B/W:	0.01 lux @ F1.6
Shutter Speed:	1 ~ 1/30,000 sec
Col/B:	Auto, IR-cut filter removable (ICR)
Optical Zoom Ratio:	36x
Digital Zoom:	16x
Lens Focal Length:	4.5 ~ 162 mm
Viewing Angle:	60.6° ~ 3.7°
Lens Drive Type:	Auto Iris (DC)
Iris F-Number:	F= 1.4 ~ 360
Pan Speed:	Manual: 0.1°/s ~ 300°/s, Preset: 540°/s (max.)
Tilt Speed:	Manual: 0.1°/s ~ 240°/s, Preset: 400°/s (max.)
Range Panning:	360° endless
Range Tilting:	-15° ~ 90° (auto flip)
Number of Preset:	300
Sequence:	8
BLC Back Light: WDR:	On/Off 120dB
Digital Noise Reduction:	3D-DNR, auto
AGC:	Adjustable
White Balance:	Auto/Off
Number of Privacy Zones:	·
rtumber of trivacy zones.	24
Motion Detection:	Off, ON (Normal, Expert mode, by Schedule)
Video enhancement:	Defog
Intelligent Video	Appear / Disappear, Audio Detection, Auto Tracking, Enter/Exit, Face Detection, IP Address Conflict, Network
Analytics:	Disconnect, Storage exception, Tampering, Virtual Line
Video Compression:	H.264, MJPEG
Video Streaming:	Triple Stream, H.264 and MJPEG
Video Resolution:	Main: 2048x1536 (50/60fps), 1920x1080 (50/60fps), 1280x960 (50/60fps), 1280x720 (50/60fps), Sub: 704x576(50/60fps), 640x480(50/60fps), 352x288(50/60fps), Third Stream: 2048x1536 (50/60fps), 1920x1080 (50/60fps), 1280x960 (50/60fps), 1280x720 (50/60fps), 1280x72
	(50/60fps), 704x5076 (50/60fps), 352x288(50/60fps) Mainstream: 256kbps~16384kbps, Substream:
Bit Rate:	32kbps~8192Mbps, Third Stream: 256kbps~16384kbps
Audio Compression:	G.711 (64kbps) / G.726 (16kbps) / MP2L2
Audio Input/Output:	Line In/Line Out (two way Audio)
Alarm Trigger:	Motion detection, Tampering, Network disconnect, IP address conflict, Alarm Input, Storage error, Intelligent video analytics, Audio detection
Network Protocol:	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI
System Compatibility:	ONVIF, PSIA, CGI
ONVIF compliant:	Profile S, Profile G
Web Browser:	MS Internet Explorer 7.0 (or higher), Mozilla Firefox, Google Chrome
Security:	HTTPS, IP FILTER, IEEE802.1x, Admin/User account
Alarm Input/Output:	7/2
Video Outputs:	1x CVBS (1Vpp), BNC
SD memory:	supports up to 128 GB capacity of SD/SDHC/SDXC memory
Recording:	H.264, Image Capture (Time-Lapse), JPEG format, Support NAS Server
Network Interface:	1x 10/100 Base T/TX HiPoE (RJ-45)
Protection Rating:	IP66, IK10
Operating Temperature:	-40°C ~ +65°C
Humidity:	less than 90%, non condensing
Supply Voltage:	24 VAC / hPoE (60W)
Power Consumption (W):	60
Maiatt	
Weight: Dimensions:	8.0 kg - 17.64 lbs 260 x 331 mm - 10.24 x 13.03 ln
וותensions:	200 x 331 IIIIII - 10.24 x 13.03 III



#### 3MP Intelligent IP IR LED PTZ Dome

- 36x motorized optical zoom with 16x digital zoom
- IR LEDs integrated
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- Panspeed (540°/sec) / Tiltspeed (400°/sec), minimum speed (0.1°/sec)
- Privacy Zone Masking Function
- Intelligent Video Content Analysis with Motion Tracking
- WDR (Wide Dynamic Range) for extreme backlight situations
- Supports Power over Ethernet (PoE)















#### **ACCESSORIES**

GBR-WA08 GBR-WA08C GBR-WA08J GBR-WA08JC









GBR-WA08JP GBR-WA08P

GBR-CE08L

GBR-CE08M









Dimensions:

Image Sensor:	1/3" Progressive Scan CMOS
Pixels - Total:	2048 (H) x 1536 (V)
Sensitivity Colour:	0.05 Lux@F1.6
Sensitivity B/W:	0.01 lux @ F1.6
Shutter Speed:	1/3 ~ 1/30,000 sec
Col/B:	Auto, IR-cut filter removable (ICR)
Lens Focal Length:	4.5 ~ 162 mm
Viewing Angle:	60.6° ~ 3.7°
Optical Zoom Ratio:	36x
Digital Zoom: Lens Drive Type:	16x Auto Iris (DC)
Iris F-Number:	F= 1.4 ~ 360
Max. IR Distance:	200 m
IR LED:	10 pcs., 72°~8° beaming angle
Pan Speed:	Manual: 0.1°/s ~ 300°/s, Preset: 540°/s (max.)
Tilt Speed:	Manual: 0.1°/s ~ 240°/s, Preset: 400°/s (max.)
Range Panning:	360° endless
Range Tilting:	-20° ~ 90°
Number of Preset:	300
Sequence:	8
BLC Back Light:	On/Off
WDR:	120dB
Digital Noise Reduction:	3D-DNR, auto
AGC:	Adjustable
White Balance:	Auto/Off
Number of Privacy Zones:	24
Motion Detection:	Off, ON (Normal, Expert mode, by Schedule)
Intelligent Video	Appear / Disappear, Audio Detection, Auto Tracking,
Analytics:	Enter/Exit, Face Detection, IP Address Conflict, Network Disconnect, Storage exception, Tampering, Virtual Line
Video enhancement:	Defog
riado dimandomenti	3
	Rotate mode, saturation, brightness, contrast, grayscale
Image settings:	adjustable through client software or web browser
Video Compression:	adjustable through client software or web browser H.264, MJPEG
, ,	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG
Video Compression: Video Streaming:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 (50/60fps), 1920x1080 (50/60fps), 1280x960 (50/60fps), 1280x720 (50/60fps), Sub:
Video Compression:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Third Stream: 2048x1536 [50/60fps],
Video Compression: Video Streaming:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Third Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps]
Video Compression: Video Streaming:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Third Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream:
Video Compression: Video Streaming: Video Resolution: Bit Rate:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Third Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps
Video Compression: Video Streaming: Video Resolution: Bit Rate: Audio Compression:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Third Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2
Video Compression: Video Streaming: Video Resolution: Bit Rate:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Third Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps
Video Compression: Video Streaming: Video Resolution: Bit Rate: Audio Compression:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Tird Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP,
Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Tird Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI
Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:  ONVIF compliant:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], hird Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI Profile S, Profile G
Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Third Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI Profile S, Profile G MS Internet Explorer 7.0 (or higher), Mozilla Firefox, Google Chrome
Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:  ONVIF compliant: Web Browser: Security:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Tird Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI Profile S, Profile G MS Internet Explorer 7.0 (or higher), Mozilla Firefox, Google Chrome HTTPS, IP FILTER, IEEE802.1x, Admin/User account
Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:  ONVIF compliant: Web Browser: Security: Alarm Input/Output:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], hird Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps-16384kbps, Substream: 32kbps-8192Mbps, Third Stream: 256kbps-16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI Profile S, Profile G MS Internet Explorer 7.0 (or higher), Mozilla Firefox, Google Chrome HTTPS, IP FILTER, IEEE802.1x, Admin/User account
Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:  ONVIF compliant: Web Browser: Security:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], 1780x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps-16384kbps, Substream: 32kbps-8192Mbps, Third Stream: 256kbps-16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI Profile S, Profile G MS Internet Explorer 7.0 (or higher), Mozilla Firefox, Google Chrome HTTPS, IP FILTER, IEEE802.1x, Admin/User account 7/2 1x CVBS [1Vpp], BNC
Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:  ONVIF compliant: Web Browser: Security: Alarm Input/Output:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], hird Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps-16384kbps, Substream: 32kbps-8192Mbps, Third Stream: 256kbps-16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI Profile S, Profile G MS Internet Explorer 7.0 (or higher), Mozilla Firefox, Google Chrome HTTPS, IP FILTER, IEEE802.1x, Admin/User account
Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:  ONVIF compliant: Web Browser: Security: Alarm Input/Output: Video Outputs:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Third Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI Profile S, Profile G MS Internet Explorer 7.0 (or higher), Mozilla Firefox, Google Chrome HTTPS, IP FILTER, IEEE802.1x, Admin/User account 7/2 1x CVBS (1Vpp), BNC supports up to 128 GB capacity of micro SD/SDHC/SDXC memory H.264, Image Capture (Time-Lapse), JPEG format, Support NAS Server
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Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:  ONVIF compliant: Web Browser: Security: Alarm Input/Output: Video Outputs: SD memory: Recording: Network Interface: Operating Temperature:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Third Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI Profile S, Profile G MS Internet Explorer 7.0 (or higher), Mozilla Firefox, Google Chrome HTTPS, IP FILTER, IEEE802.1x, Admin/User account 7/2 1x CVBS (1Vpp), BNC supports up to 128 GB capacity of micro SD/SDHC/SDXC memory H.264, Image Capture (Time-Lapse), JPEG format, Support NAS Server 1x 10/100 Base T/TX HiPoE (RJ-45) -40°C ~ +60°C
Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:  ONVIF compliant: Web Browser: Security: Alarm Input/Output: Video Outputs: SD memory: Recording: Network Interface: Operating Temperature: Humidity:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Third Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI Profile S, Profile G MS Internet Explorer 7.0 (or higher), Mozilla Firefox, Google Chrome HTTPS, IP FILTER, IEEE802.1x, Admin/User account 7/2 1x CVBS [1Vpp], BNC supports up to 128 GB capacity of micro SD/SDHC/SDXC memory H.264, Image Capture [Time-Lapse], JPEG format, Support NAS Server 1x 10/100 Base T/TX HiPoE (RJ-45) -40°C~+60°C less than 90%, non condensing
Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:  ONVIF compliant: Web Browser: Security: Alarm Input/Output: Video Outputs: SD memory: Recording: Network Interface: Operating Temperature: Humidity: Protection Rating:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Tird Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI Profile S, Profile G MS Internet Explorer 7.0 (or higher), Mozilla Firefox, Google Chrome HTTPS, IP FILTER, IEEE802.1x, Admin/User account 7/2 1x CVBS [1Vpp], BNC supports up to 128 GB capacity of micro SD/SDHC/SDXC memory H.264, Image Capture [Time-Lapse], JPEG format, Support NAS Server 1x 10/100 Base T/TX HiPoE (RJ-45) -40°C ~ +60°C less than 90%, non condensing IP66, IK10
Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:  ONVIF compliant: Web Browser: Security: Alarm Input/Output: Video Outputs: SD memory: Recording: Network Interface: Operating Temperature: Humidity: Protection Rating: Supply Voltage:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Third Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI Profile S, Profile G MS Internet Explorer 7.0 (or higher), Mozilla Firefox, Google Chrome HTTPS, IP FILTER, IEEE802.1x, Admin/User account 7/2 1x CVBS [1Vpp], BNC supports up to 128 GB capacity of micro SD/SDHC/SDXC memory H.264, Image Capture [Time-Lapse], JPEG format, Support NAS Server 1x 10/100 Base T/TX HiPoE (RJ-45) -40°C~+60°C less than 90%, non condensing
Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:  ONVIF compliant: Web Browser: Security: Alarm Input/Output: Video Outputs: SD memory: Recording: Network Interface: Operating Temperature: Humidity: Protection Rating:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Tird Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI Profile S, Profile G MS Internet Explorer 7.0 (or higher), Mozilla Firefox, Google Chrome HTTPS, IP FILTER, IEEE802.1x, Admin/User account 7/2 1x CVBS [1Vpp], BNC supports up to 128 GB capacity of micro SD/SDHC/SDXC memory H.264, Image Capture [Time-Lapse], JPEG format, Support NAS Server 1x 10/100 Base T/TX HiPoE (RJ-45) -40°C ~ +60°C less than 90%, non condensing IP66, IK10
Video Compression: Video Streaming:  Video Resolution:  Bit Rate: Audio Compression: Audio Input/Output:  Network Protocol:  ONVIF compliant: Web Browser: Security: Alarm Input/Output: Video Outputs: SD memory: Recording: Network Interface: Operating Temperature: Humidity: Protection Rating: Supply Voltage:	adjustable through client software or web browser H.264, MJPEG Triple Stream, H.264 and MJPEG Main: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], Sub: 704x576[50/60fps], 640x480[50/60fps], 352x288[50/60fps], Third Stream: 2048x1536 [50/60fps], 1920x1080 [50/60fps], 1280x960 [50/60fps], 1280x720 [50/60fps], 704x5076 [50/60fps], 352x288[50/60fps] Mainstream: 256kbps~16384kbps, Substream: 32kbps~8192Mbps, Third Stream: 256kbps~16384kbps G.711 [64kbps] / G.726 [16kbps] / MP2L2 Line In/Line Out (two way Audio) TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SNMP, IGMP, 802.1x, QoS, IPv4/v6, Bonjour, ONVIF, PSIA, CGI Profile S, Profile G MS Internet Explorer 7.0 (or higher), Mozilla Firefox, Google Chrome HTTPS, IP FILTER, IEEE802.1x, Admin/User account 7/2 1x CVBS [1Vpp], BNC supports up to 128 GB capacity of micro SD/SDHC/SDXC memory H.264, Image Capture [Time-Lapse], JPEG format, Support NAS Server 1x 10/100 Base T/TX HiPoE (RJ-45) -40°C ~ +60°C less than 90%, non condensing IP66, IK10 24 VAC / hPoE [60W]

267 x 366 mm - 10.51 x 14.41 ln

### IP RECORDING







Grundig offers an extensive range of IP recording solutions, based on either embedded Linux systems, for standalone use, or PC-based systems, pre-installed within the Grundig VMS, for larger applications.

Grundig's embedded NVRs are designed for installations of up to 32 cameras. The Connect range handles cameras with resolutions of up to 5MP and includes a 4 or 8 port, POE switch. The Professional range handles cameras with resolutions of up to 12MP. It includes greater processing power and increased levels of storage.



#### 4 Channel H.264 NVR with PoE switch

- Built in PoE Switch for direct IP camera connection
- Multiplex (Live/Playback, Recording, Backup, Networking)
- Various recording features (Normal, schedule, motion, alarm)
- Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and Smartphone
- Video recording with NAS System and Local HDD
- Recorded files backup via USB device
- ONVIF protocol support

GRN-G1004P

• SDK for Windows and Linux system













Power Consumption (W):

Weight:

# DIMENSIONS (mm)







Operating System:	Embedded OS
IP Inputs:	4 channels
Video Outputs:	1x HDMI, 1x VGA
Harddisk bay:	1 x SATA II
Max. Storage Capacity:	68 TB (1x4 TB SATA and 8x8 TB NAS)
Video Compression:	H.264
Recording Resolution:	VGA (640x480), 4CIF (704x576), 720p (1280x720), 1.3MP (1280x960), UXGA (1600x1200), 1080p (1920x1080), QXGA (2048x1536), 5MP (2560x1920)
Recording Bandwidth:	max. 40 Mbps
Outgoing Bandwidth:	maks. 80 Mbps
Recording Mode:	Continuous, Event Alarm, Motion, Video Loss, Schedule
Display resolution:	Up to 1920x1080 (HDMI / VGA)
Display Speed:	4ch @ 1080p
Playback:	Synchronised playback of max. 4 cameras
Search Mode:	Date/Time, Event Alarm, Motion, Search Backup
External Backup:	USB HDD, USB Memory, USB External, DVD-ROM, Network
Event Source:	Motion, Alarm, Video Loss, System
Event Action:	Pop-Up, Relay, E-Mail, Buzzer, PTZ Preset
Motion Detection:	On/ Off/ Area Setting
PTZ Control:	Pan/Tilt/Zoom, Camera OSD, Preset set/call
Audio Inputs:	1 CH, RCA, 4 CH over IP
Audio Outputs:	1 CH, RCA
Audio Compression:	G.711
Alarm Inputs:	4 contact input N/O or N/C
Alarm Outputs:	1 Relay
ONVIF compliant:	Profile S, Profile G
Network Interface:	4x 10/100 Base T/TX PoE (RJ-45) + 1x 10/100/1000 Base T/TX (RJ-45)
PoE Budget:	15 W per Port, 50 W
Remote Connections:	Up to 128 (depending on available outgoing bandwith)
Network Protocol:	IPv4, IPv6, TCP/IP, UDP, RTP, PPPoE, DHCP, DNS, DDNS, NTP, SADP, SMTP, SNMP, NFS, iSCSI
Multiplex Function:	Triplex
Serial Interface(s):	1x RS-485, 1x USB 2.0, 1x USB 3.0
Client software:	Windows® (XP, Vista, 7), Web Viewer: IE®, Firefox®, Safari®, Chrome®; Mobile: iPhone®, Android®
Operating Temperature:	-10°C ~ +55°C
Operating Humidity:	10% ~ 90%, non-condensing
Supply Voltage:	48 Vdc
Dimensions (WxHxD):	380 x 290 x 48 mm - 14.96 x 11.42 x 1.89 ln:

10 (no HDD) 1 kg - 2.2 lbs



#### 16 Channel H.264 NVR with PoE switch

- Built in 8 Ch. PoE Switch for direct IP camera connection
- Multiplex (Live/Playback, Recording, Backup, Networking)
- Various recording features (Normal, schedule, motion, alarm)
- Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and Smartphone
- Video recording with NAS System and Local HDD
- Recorded files backup via USB device
- ONVIF protocol support
- SDK for Windows and Linux system



















Operating System:	Embedded OS
IP Inputs:	16 channels
Video Outputs:	1x VGA, 1x HDMI
Harddisk bay:	2 x SATA II
Max. Storage Capacity:	72 TB (2x4 TB SATA and 8x8 TB NAS)
Video Compression:	H.264
Recording Resolution:	VGA (640x480), 4CIF (704x576), 720p (1280x720), 1.3MP (1280x960), UXGA (1600x1200), 1080p (1920x1080), QXGA (2048x1536), 5MP (2560x1920)
Recording Bandwidth:	max. 160 Mbps
Outgoing Bandwidth:	maks. 80 Mbps
Recording Mode:	Continuous, Event Alarm, Motion, Video Loss, Schedule
Display resolution:	Up to 1920x1080 (HDMI / VGA)
Display Speed:	6 Ch @ 1080p, 12 Ch @ 720p, 16 Ch @ 4CIF
Playback:	Synchronised playback of max. 16 cameras
Search Mode:	Date/Time, Event Alarm, Motion, Search Backup
External Backup:	USB HDD, USB Memory, Network
Motion Detection:	On/ Off/ Area Setting
Event Source:	Motion, Alarm, Video Loss, System
Event Action:	Pop-Up, Relay, E-Mail, Buzzer, PTZ Preset
PTZ Control:	Pan/Tilt/Zoom, Camera OSD, Preset set/call
Audio Inputs:	1 CH, RCA, 16 CH over IP
Audio Outputs:	1 CH, RCA
Audio Compression:	G.711
Alarm Inputs:	4 contact input N/O or N/C
Alarm Outputs:	1 Relay
Network Interface:	8x 10/100 Base T/TX PoE [RJ-45] + 1x 10/100/1000 Base T/TX [RJ-45]
PoE Budget:	120 W, 15 W per Port
Remote Connections:	Up to 128 (depending on available outgoing bandwith)
ONVIF compliant:	Profile S, Profile G
Network Protocol:	IPv4, IPv6, TCP/IP, UDP, RTP, PPPoE, DHCP, DNS, DDNS, NTP, SADP, SMTP, SNMP, NFS, iSCSI
Multiplex Function:	Triplex
Serial Interface(s):	1x RS-485, 1x USB 2.0, 1x USB 3.0
Client software:	Windows® (XP, Vista, 7), Web Viewer: IE®, Firefox®, Safari®, Chrome®; Mobile: iPhone®, Android®
Operating Temperature:	-10°C ~ +55°C
Operating Humidity:	10% ~ 90%, non-condensing
Supply Voltage:	100 ~ 240 Vac, 50/60Hz
Dimensions ( W x H x D):	380 x 48 x 290 mm - 14.96 x 1.89 x 11.42 ln:
Power Consumption (W):	10 (no HDD)
Weight:	1 kg - 2.2 lbs



#### 16 Channel H.264 NVR

**GRN-M1116N** 

- Local user interface on 3 video outputs, with independent multivision
- · Digital Spot Function to stream the CVBS Spot monitor into network
- Hot Spare Mode working as Failover Server for another GRN
- Multiplex (Live/Playback, Recording, Backup, Networking)
- Various recording features (Normal, schedule, motion, alarm)
- Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and Smartphone
- eSATA interface: add external Hard drive to increase record capacity
- Recorded files backup via USB device or eSATA device





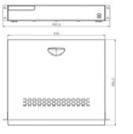








#### DIMENSIONS (mm)







Embedded OS Operating System: IP Inputs: 16 channels Video Outputs: 1x VGA, 1x HDMI, 1x BNC Harddisk bay: 4 x SATA II Max. Storage Capacity: 84 TB (4x4 TB SATA, 1x4TB eSATA and 8x8 TB NAS) Video Compression: H.264, MPEG4 VGA (640x480), 4CIF (704x576), 720p (1280x720), 1.3MP Recording Resolution: (1280x960), UXGA (1600x1200), 1080p (1920x1080), QXGA (2048x1536), 5MP (2560x1920, 6MP (3072 × 2048) Recording Bandwidth: max. 200 Mbps Outgoing Bandwidth: max. 160 Mbps Recording Mode: Continuous, Event Alarm, Motion, Video Loss, Schedule Display resolution: Up to 1920x1080 (HDMI / VGA), 704x576 (BNC) Display Speed: 5 Ch @ 1080p, 10 Ch @ 720p, 16 Ch @ 4CIF Playback: Synchronised playback of max. 16 cameras Search Mode: Date/Time, Event Alarm, Motion, Search Backup USB HDD, USB Memory, USB External, DVD-ROM, External Backup: Network Motion Detection: On/ Off/ Area Setting Motion, Alarm, Video Loss, System Event Source: Event Action: Pop-Up, Relay, E-Mail, Buzzer, PTZ Preset Pan/Tilt/Zoom, Camera OSD, Preset set/call PTZ Control: 16 channels (over IP), 1 channel (BNC, 2.0Vp-p, Audio Inputs: 1K0hms) 2 Channels (BNC, 600 Ohms) Audio Outputs: Mouse (USB), WEB browser or client software Audio Compression: Alarm Inputs: 16 contact input N/O or N/C Alarm Outputs: 4 Relay ONVIF compliant: Profile S, Profile G Network Interface: 1x 10/100/1000 Base T/TX (RJ-45) Up to 128 (depending on available outgoing bandwith) Remote Connections: IPv4, IPv6, TCP/IP, UDP, RTP, PPPoE, DHCP, DNS, Network Protocol: DDNS, NTP, SADP, SMTP, SNMP, NFS, iSCSI Multiplex Function: Triplex Windows® (XP, Vista, 7), Web Viewer: IE®, Firefox®, Client software: Safari®, Chrome®; Mobile: iPhone®, Android® Serial Interface(s): 1x RS232, 2x RS485, 3x USB, 1x eSATA Chassis: 19-inch rack-mounted, 1.5U -10°C ~ +55°C Operating Temperature: Operating Humidity: 10% ~ 90%, non-condensing Supply Voltage: 100 ~ 240 Vac, 50/60Hz 440 x 390 x 70 mm - 17.32 x 15.35 x 2.76 ln: Dimensions (WxHxD): Power Consumption (W):

40 (no HDD)

4 kg - 8.82 lbs



Weight:



#### 32 Channel NVR

- · Local user interface on 3 video outputs, with independant multivision
- · Digital Spot Function to stream the CVBS Spot monitor into network
- Hot Spare Mode working as Failover Server for another GRN
- Multiplex (Live/Playback, Recording, Backup, Networking)
- Various recording features (Normal, schedule, motion, alarm)
- Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and Smartphone
- eSATA interface: add external Hard drive to increase record capacity
- Video recording with NAS System and Local HDD



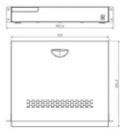




















#### 8 CH NVR with 8 Ch PoE switch

- Supports a maximum of 12 MP recording resolution
- 4K video display on main HDMI

**GRN-R2108P** 

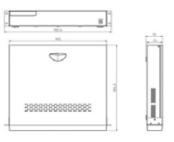
- Built in PoE Switch for direct IP camera connection
- Digital Spot Function to stream the CVBS Spot monitor into network
- Multiplex (Live/Playback, Recording, Backup, Networking)
- Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and Smartphone
- Recorded files backup via USB device or optional DVDRW
- Video recording with NAS System and Local HDD











Operating System:	Embedded Linux
IP Inputs:	8 channels
Video Outputs:	1x VGA, 1x HDMI, 1x BNC
Harddisk bay:	4 x SATA II
Max. Storage Capacity:	94 TB (4x6 TB SATA, 1x6TB eSATA and 8x8 TB NAS)
Basic Internal Storage:	No
Video Compression:	H.265, H.264, MPEG4
Recording Resolution:	12 MP/ 8 MP/ 6 MP/ 5 MP/ 4 MP/ 1080P/ UXGA/ 720P/ VGA/ 4CIF/ DCIF/ 2CIF/ CIF/ QCIF
Recording Bandwidth:	max. 80 Mbps
Outgoing Bandwidth:	max. 256 Mbps
Recording Mode:	Continuous, Event Alarm, Motion, Video Loss, Schedule
Display resolution:	4K(3840*2160)/60Hz, 4K(3840*2160)/30Hz, 1920*1080P/60Hz, 1600*1200/60Hz, 1280*1024/60Hz, 1280*720/60Hz, 1024*768/60Hz
Playback:	Synchronised playback of max. 8 cameras
Search Mode:	Date/Time, Event Alarm, Motion, Search Backup
External Backup:	USB HDD, USB Memory, DVD-ROM, Network, eSATA
Motion Detection:	On/ Off/ Area Setting
Event Source:	Motion, Alarm, Video Loss, System
Event Action:	Pop-Up, Relay, E-Mail, FTP, Network, Buzzer, PTZ Preset
PTZ Control:	Pan/Tilt/Zoom, Camera OSD, Preset set/call
Audio Inputs:	1 CH, RCA
Audio Outputs:	1 CH, RCA
Audio Compression:	G.711
Alarm Inputs:	8 contact input N/O or N/C
Alarm Outputs:	4
ONVIF compliant:	Profile S, Profile G
Network Interface:	8x 10/100 Base T/TX PoE [RJ-45] + 1x 10/100/1000 Base T/TX (RJ-45)
PoE Budget:	200W
Remote Connections:	Up to 128 (depending on available outgoing bandwith)
Network Protocol:	DDNS, DHCP, DNS, IPv4/IPv6, NFS, NTP, PPPoE, RTP, SADP, SMTP, SNMP, TCP/IP, UDP
Serial Interface(s):	1x RS-232, 2x RS-485, 1x eSATA, 2x USB 2.0, 1x USB 3.0
Client software:	Windows (Vista, 7, 8), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iOS, Android
Certifications:	CE, RoHS
Operating Temperature:	-10°C ~ +55°C
Humidity:	10 ~ 90%RH
Chassis:	19-inch rack-mounted, 1.5U
Supply Voltage:	100 ~ 240 Vac, 50/60Hz
Dimensions ( W x H x D):	445 x 390 x 70 mm - 17.52 x 15.35 x 2.76 ln:
Power Consumption (W):	20 (without HDD)
Weight:	5 kg - 11.02 lbs



#### 16 CH NVR with 16 Ch PoE switch

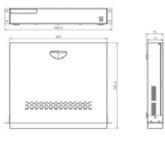
- Supports a maximum of 12 MP recording resolution
- 4K video display on main HDMI
- Built in PoE Switch for direct IP camera connection
- Digital Spot Function to stream the CVBS Spot monitor into network
- Multiplex (Live/Playback, Recording, Backup, Networking)
- Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and Smartphone
- Recorded files backup via USB device or optional DVDRW
- Video recording with NAS System and Local HDD











Operating System:	Embedded Linux
IP Inputs:	16 channels
Video Outputs:	1x VGA, 1x HDMI, 1x BNC
Harddisk bay:	4 x SATA II
Max. Storage Capacity:	94 TB (4x6 TB SATA, 1x6TB eSATA and 8x8 TB NAS)
Basic Internal Storage:	No
Video Compression:	H.265, H.264, MPEG4
Recording Resolution:	12 MP/ 8 MP/ 6 MP/ 5 MP/ 4 MP/ 1080P/ UXGA/ 720P/ VGA/ 4CIF/ DCIF/ 2CIF/ CIF/ QCIF
Recording Bandwidth:	max. 160 Mbps
Outgoing Bandwidth:	max. 256 Mbps
Recording Mode:	Continuous, Event Alarm, Motion, Video Loss, Schedule
Display resolution:	4K(3840*2160)/60Hz, 4K(3840*2160)/30Hz, 1920*1080P/60Hz, 1600*1200/60Hz, 1280*1024/60Hz, 1280*720/60Hz, 1024*768/60Hz
Playback:	Synchronised playback of max. 8 cameras
Search Mode:	Date/Time, Event Alarm, Motion, Search Backup
External Backup:	USB HDD, USB Memory, DVD-ROM, Network, eSATA
Motion Detection:	On/ Off/ Area Setting
Event Source:	Motion, Alarm, Video Loss, System
Event Action:	Pop-Up, Relay, E-Mail, FTP, Network, Buzzer, PTZ Preset
PTZ Control:	Pan/Tilt/Zoom, Camera OSD, Preset set/call
Audio Inputs:	1 CH, RCA
Audio Outputs:	1 CH, RCA
Audio Compression:	G.711
Alarm Inputs:	16 contact input N/O or N/C
Alarm Outputs:	4
ONVIF compliant:	Profile S, Profile G
Network Interface:	16x 10/100 Base T/TX PoE (RJ-45) + 1x 10/100/1000 Base T/TX (RJ-45)
PoE Budget:	200W
Remote Connections:	Up to 128 (depending on available outgoing bandwith)
Network Protocol:	DDNS, DHCP, DNS, IPv4/IPv6, NFS, NTP, PPPoE, RTP, SADP, SMTP, SNMP, TCP/IP, UDP
Serial Interface(s):	1x RS-232, 2x RS-485, 1x eSATA, 2x USB 2.0, 1x USB 3.0
Client software:	Windows (Vista, 7, 8), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iOS, Android
Certifications:	CE, RoHS
Operating Temperature:	-10°C ~ +55°C
Humidity:	10 ~ 90%RH
Chassis:	19-inch rack-mounted, 1.5U
Supply Voltage:	100 ~ 240 Vac, 50/60Hz
Dimensions ( W x H x D):	445 x 390 x 70 mm - 17.52 x 15.35 x 2.76 ln:
Power Consumption (W):	20 (without HDD)
Weight:	5 kg - 11.02 lbs

**IP CAMERAS** 



#### 32 CH NVR with 16 CH PoE switch

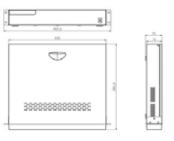
- Supports a maximum of 12 MP recording resolution
- 4K video display on main HDMI
- Built in PoE Switch for direct IP camera connection
- Digital Spot Function to stream the CVBS Spot monitor into network
- Multiplex (Live/Playback, Recording, Backup, Networking)
- Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and Smartphone
- Recorded files backup via USB device or optional DVDRW
- Video recording with NAS System and Local HDD











Operating System:	Embedded Linux
IP Inputs:	32 channels
Video Outputs:	1x VGA, 1x HDMI, 1x BNC
Harddisk bay:	4 x SATA II
Max. Storage Capacity:	4x SATA, 1x eSATA, 94 TB (4x6 TB SATA, 1x6TB eSATA and 8x8 TB NAS)
Basic Internal Storage:	No
Video Compression:	H.265, H.264, MPEG4
Recording Resolution:	12 MP/ 8 MP/ 6 MP/ 5 MP/ 4 MP/ 1080P/ UXGA/ 720P/ VGA/ 4CIF/ DCIF/ 2CIF/ CIF/ QCIF
Recording Bandwidth:	max. 200 Mbps
Outgoing Bandwidth:	max. 256 Mbps
Recording Mode:	Continuous, Event Alarm, Motion, Video Loss, Schedule
Display resolution:	4K(3840*2160)/60Hz, 4K(3840*2160)/30Hz, 1920*1080P/60Hz, 1600*1200/60Hz, 1280*1024/60Hz, 1280*720/60Hz, 1024*768/60Hz
Playback:	Synchronised playback of max. 8 cameras
Search Mode:	Date/Time, Event Alarm, Motion, Search Backup
External Backup:	USB HDD, USB Memory, DVD-ROM, Network, eSATA
Motion Detection:	On/ Off/ Area Setting
Event Source:	Motion, Alarm, Video Loss, System
Event Action:	Pop-Up, Relay, E-Mail, FTP, Network, Buzzer, PTZ Preset
PTZ Control:	Pan/Tilt/Zoom, Camera OSD, Preset set/call
Audio Inputs:	32 channels (over IP), 1 channel (BNC, 2.0Vp-p, 1K0hms)
Audio Outputs:	1 CH, RCA
Audio Compression:	G.711
Alarm Inputs:	16 contact input N/O or N/C
Alarm Outputs:	4
ONVIF compliant:	Profile S, Profile G
Network Interface:	16x 10/100 Base T/TX PoE (RJ-45) + 1x 10/100/1000 Base T/TX (RJ-45)
PoE Budget:	200W
Remote Connections:	Up to 128 (depending on available outgoing bandwith)
Network Protocol:	DDNS, DHCP, DNS, IPv4/IPv6, NFS, NTP, PPPoE, RTP, SADP, SMTP, SNMP, TCP/IP, UDP
Serial Interface(s):	1x RS-232, 2x RS-485, 1x eSATA, 2x USB 2.0, 1x USB 3.0
Client software:	Windows (Vista, 7, 8), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iOS, Android
Certifications:	CE, RoHS
Operating Temperature:	-10°C ~ +55°C
Humidity:	10 ~ 90%RH
Chassis:	19-inch rack-mounted, 1.5U
Supply Voltage:	100 ~ 240 Vac, 50/60Hz
Dimensions (W x H x D):	445 x 390 x 70 mm - 17.52 x 15.35 x 2.76 ln:
Power Consumption (W):	20 (without HDD
Weight:	5 kg - 11.02 lbs



#### 8 CH NVR

- Mobile client support iPhone, iPad, Android
- 2 external I/O channels per server
- Supports 3 simultaneous client connections
- Centralized user Management
- Light Web-client viewer



Number of cameras:	8 channel max. per Server, max. 5 Server
Video Compression:	MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility)
Recording:	Continuous, motion, or event triggered recording can be scheduled using the calendar object for repetitive action
Storage Device:	Accepts internal server storage as well as NAS/SAN/DAS
Streaming:	Dual Streaming (depending on camera model)
Live Viewing:	Customizable interface with personnalized layouts and mosaics, emaps, HTML and commands
Picture and Video Export:	yes
Log File Support:	Events, macros, changes, activities per user
Log File Support: Smart Search Function:	Events, macros, changes, activities per user Yes
•	-
Smart Search Function:	Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB
Smart Search Function: CPU:	Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache 1x 64GB SSD 4 x SATA
Smart Search Function:  CPU:  Hard disk:	Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache 1x 64GB SSD 4 x SATA 8GB Dual Channel DDR3 ECC RAM (2x4GB)
Smart Search Function:  CPU:  Hard disk:  Harddisk bay:	Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache 1x 64GB SSD 4 x SATA
Smart Search Function:  CPU:  Hard disk:  Harddisk bay:  Memory:	Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache 1x 64GB SSD 4 x SATA 8GB Dual Channel DDR3 ECC RAM (2x4GB)

**IP CAMERAS** 



# 16 CH NVR

- Mobile client support iPhone, iPad, Android
- 2 external I/O channels per server
- Supports 3 simultaneous client connections
- Centralized user Management
- Light Web-client viewer

Number of cameras:	16 channel max. per Server, max. 5 Server
Video Compression:	MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility)
Recording:	Continuous, motion, or event triggered recording can be scheduled using the calendar object for repetitive action
Storage Device:	Accepts internal server storage as well as NAS/SAN/DAS
Streaming:	Dual Streaming (depending on camera model)
Live Viewing:	Customizable interface with personnalized layouts and mosaics, emaps, HTML and commands
Picture and Video Export:	yes
Picture and Video Export:  Log File Support:	yes Events, macros, changes, activities per user
•	Events, macros, changes, activities per user Yes
Log File Support:	Events, macros, changes, activities per user
Log File Support: Smart Search Function:	Events, macros, changes, activities per user Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB
Log File Support: Smart Search Function: CPU:	Events, macros, changes, activities per user Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache 1x 64GB SSD 4 x SATA
Log File Support: Smart Search Function: CPU: Hard disk:	Events, macros, changes, activities per user Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache 1x 64GB SSD 4 x SATA 8GB Dual Channel DDR3 ECC RAM (2x4GB)
Log File Support: Smart Search Function: CPU: Hard disk: Harddisk bay:	Events, macros, changes, activities per user Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache 1x 64GB SSD 4 x SATA
Log File Support: Smart Search Function: CPU: Hard disk: Harddisk bay: Memory:	Events, macros, changes, activities per user Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache 1x 64GB SSD 4 x SATA 8GB Dual Channel DDR3 ECC RAM (2x4GB)



# 24 CH NVR

- Mobile client support iPhone, iPad, Android
- 2 external I/O channels per server
- Supports 3 simultaneous client connections
- Centralized user Management
- Light Web-client viewer

Number of cameras:	24 channel max. per Server, max. 5 Server
Video Compression:	MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility)
Recording:	Continuous, motion, or event triggered recording can be scheduled using the calendar object for repetitive action
Storage Device:	Accepts internal server storage as well as NAS/SAN/DAS
Streaming:	Dual Streaming (depending on camera model)
Live Viewing:	Customizable interface with personnalized layouts and mosaics, emaps, HTML and commands
Picture and Video Export:	yes
Picture and Video Export:  Log File Support:	yes Events, macros, changes, activities per user
•	· ·
Log File Support:	Events, macros, changes, activities per user
Log File Support: Smart Search Function:	Events, macros, changes, activities per user Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB
Log File Support: Smart Search Function: CPU:	Events, macros, changes, activities per user Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache 1x 64GB SSD 4 x SATA
Log File Support: Smart Search Function: CPU: Hard disk:	Events, macros, changes, activities per user Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache 1x 64GB SSD 4 x SATA 8GB Dual Channel DDR3 ECC RAM (2x4GB)
Log File Support: Smart Search Function: CPU: Hard disk: Harddisk bay:	Events, macros, changes, activities per user Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache 1x 64GB SSD 4 x SATA
Log File Support: Smart Search Function: CPU: Hard disk: Harddisk bay: Memory:	Events, macros, changes, activities per user Yes Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache 1x 64GB SSD 4 x SATA 8GB Dual Channel DDR3 ECC RAM (2x4GB)

# GDS-X3008R



# 8 CH NVR

- Mobile client support iPhone, iPad, Android
- 500 external I/O channels per server
- Up to 128 simultaneous client connections
- Centralized user Management
- Light Web-client viewer
- Optional licenses (VCH, ObR, CarR, FaceR, Failover, API)



Number of cameras:	8 channel (extendable with VCH licences)
Video Compression:	MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility)
Recording:	Continuous, motion, or event triggered recording can be scheduled using the calendar object for repetitive action
Storage Device:	Accepts internal server storage as well as NAS/SAN/DAS
Streaming:	Dual Streaming (depending on camera model)
Live Viewing:	Customizable interface with personnalized layouts and mosaics, emaps, HTML and commands
Picture and Video Export:	yes
Log File Support:	Events, macros, changes, activities per user
Smart Search Function:	Yes
CPU:	Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache
Hard disk:	1x 64GB SSD
Harddisk bay:	4 x SATA
Memory:	8GB DDR3, 8GB Dual Channel DDR3 ECC RAM (2x4GB)
Operating System:	Windows 7 Professional 64Bit
Dimensions (WxHxD):	420 x 100 x 360 mm - 16.54 x 3.94 x 14.17 ln:
Power Consumption (W):	400
Weight:	10 kg - 22.05 lbs



#### 16 CH NVR

- Mobile client support iPhone, iPad, Android
- Up to 128 simultaneous client connections
- 500 external I/O channels per server
- Centralized user Management
- Light Web-client viewer
- Optional licenses (VCH, ObR, CarR, FaceR, Failover, API)



Number of cameras:	16 channel (extendable with VCH licences)
Video Compression:	MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility)
Recording:	Continuous, motion, or event triggered recording can be scheduled using the calendar object for repetitive action
Storage Device:	Accepts internal server storage as well as NAS/SAN/DAS
Streaming:	Dual Streaming (depending on camera model)
Live Viewing:	Customizable interface with personnalized layouts and mosaics, emaps, HTML and commands
Picture and Video Export:	yes
Log File Support:	Events, macros, changes, activities per user
Smart Search Function:	Yes
CPU:	Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB Cache
CPU: Hard disk:	
0. 0.	Cache
Hard disk:	Cache 1x 64GB SSD
Hard disk: Harddisk bay:	Cache 1x 64GB SSD 4 x SATA 8GB DDR3, 8GB Dual Channel DDR3 ECC RAM
Hard disk: Harddisk bay: Memory:	Cache 1x 64GB SSD 4 x SATA 8GB DDR3, 8GB Dual Channel DDR3 ECC RAM (2x4GB)
Hard disk: Harddisk bay: Memory: Operating System:	Cache 1x 64GB SSD 4 x SATA 8GB DDR3, 8GB Dual Channel DDR3 ECC RAM (2x4GB) Windows 7 Professional 64Bit

**IP CAMERAS** 



# 24 CH NVR

- Mobile client support iPhone, iPad, Android
- 500 external I/O channels per server
- Up to 128 simultaneous client connections
- Centralized user Management
- Light Web-client viewer
- Optional licenses (VCH, ObR, CarR, FaceR, Failover, API)



Number of cameras:	24 channel (extendable with VCH licences)
	MJPEG, MPEG-4, and H.264 for analog (with
Video Compression:	encoder) and IP cameras (hundreds of models,
	check for compatibility)
	Continuous, motion, or event triggered
Recording:	recording can be scheduled using the calendar
	object for repetitive action
C: D :	Accepts internal server storage as well as
Storage Device:	NAS/SAN/DAS
Streaming:	Dual Streaming (depending on camera model)
	Customizable interface with personnalized
Live Viewing:	layouts and mosaics, emaps, HTML and
	commands
${\bf Picture\ and\ Video\ Export:}$	yes
	•
Log File Support:	Events, macros, changes, activities per user
Smart Search Function:	Yes
CPU:	Intel Core i7 4790 / 4-Core / 3,6 Ghz / 8 MB
5. 5.	Cache
Hard disk:	1x 64GB SSD
Harddisk bay:	4 x SATA
Memory:	8GB DDR3, 8GB Dual Channel DDR3 ECC RAM
Memory.	(2x4GB)
Operating System:	Windows 7 Professional 64Bit
Dimensions (WxHxD):	420 x 100 x 360 mm - 16.54 x 3.94 x 14.17 ln:
Power Consumption (W):	400
Weight:	10 kg - 22.05 lbs



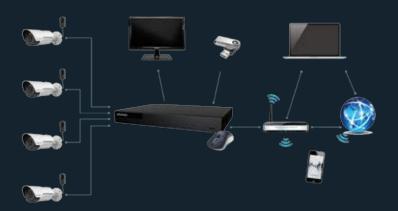


# **COMPABILITY**

Grundig strives to provide bespoke solutions to every application, offering excellent compatibility of all its camera technologies to meet a site's needs. Grundig's TVI high definition recording solutions can be used within a system also containing analogue and IP cameras to create an outstanding, practical CCTV solution. Grundig's TVI range also offers seamless compatibility with other, third-party manufacturers of TVI cameras.

#### **INSTALLATION**

All Grundig TVI cameras are easy to install and have a comprehensive range of accessories for quick and simple installation. Each camera offers Coaxial Control, for remote set up. Grundig's TVI recorders are compatible with both TVI and analogue cameras.







Grundig has developed its TVI high definition analogue solution, based on the HD-TVI, high definition, analogue standard. It enables reliable, long-distance analogue HD video transmission over coaxial cable.

TVI technology delivers up to 500 m, latency-free image transmission. Analogue users can enjoy HD without replacing their existing cabling structure or upgrading to IP.

One of the main benefits of TVI high definition, analogue technology is that there is zero loss of image data and zero latency when viewing live images.

This makes Grundig's new TVI cameras ideal for applications where evidential standard images are required, such as banks, casinos and retail environments, but where it is not viable or cost-effective to transmit the images over a network.





# 2 Megapixel Full HD-TVI Box Camera ICR WDR

- $\bullet~$  2 Megapixel Sony® Exmor  $^{\text{TM}}$  Sensor with superior low light performance
- Dual video output: HD-TVI and analogue composite
- Smart IR LED Control with adjustable level
- Motion detection function
- Privacy Zone Masking Function
- Support Dual Power AC24V/DC12V



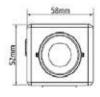


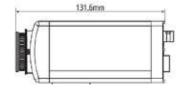






# DIMENSIONS (mm)





Pixels - Effective:	Image Sensor:	1/2.8" CMOS Sony Exmor™ Progressive Scan
Sensitivity B/W: Cot/B: Lens Mount: Lens Drive Type: Lens Shading Compensation: Digital Zoom: Smart IR: Off / On [1~20] High Speed Shutter: S/N Ratio: Digital Noise Reduction: Multice Balance: Sharpness: Off/On, Level, Mode Highlight Compensation (HLC): White Balance: Sharpness: Off / On [1~20]  White Balance: Sharpness: Off / On [1~20]  De-Fog: Off/On Privacy zones: OSD: Reverse: Motion Detection: Sens up: Remote Control: Video Outputs: Humidity: Operating Temperature: Supply Voltage: Dimensions (W x H x D):  Power Consumption (W):  Auto (ICR) / Color / B/W / External Auto iris (ICR) / Color / B/W / External C/CS mount Auto iris (ICR) / Color / B/W / External C/CS mount C/CS mount Auto iris (ICR) / Color / B/W / External C/CS mount C/CS mount C/CS mount Color / B/W / External C/CS mount Color / B/W / External C/CS mount C/CS mount Color / B/W / External C/CS mount Color / Color / Color / Color Color / Color / Color / Color Color / Color / Color / Color Color / Color Color	Pixels - Effective:	1920(H) x 1080(V)
Col/B: Lens Mount: C/CS mount  Lens Drive Type: Auto iris (DC), Manual iris  On/Off  On/Off  Onf ~ 8x  Smart IR: Off / On (1~20)  High Speed Shutter: S/N Ratio: Digital Noise Reduction: Off/Low/Mid/High AGC: WDR: BLC Back Light: Highlight Compensation (HLC): White Balance: Sharpness: OFf / On (1~20)  White Balance: Sharpness: OFf/ON, Level, Mode ATW, AWB, AWC, Manual OFf/ON, Level, Mode ATW, AWB, AWC, Manual OFf/On Privacy zones: OSD: English Reverse: OMOIO Detection: Sens up: Remote Control: Video Outputs: Under Outputs: Operating Temperature: Supply Voltage: Dimensions ( W x H x D):  Power Consumption (W):  Auto iris (DC), Manual iris  On/Off Auto iris (DC), Manual iris  On/Off Axx  On/Off Axx  On/Off Axx  On/Off Axx  On/Off Axx  On/Off Area setting Off ~ x32, auto Coaxitron, data on coax cable 1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75 OHM (BNC) WDR off Less than 90%, non condensing Operating Temperature: -10°C ~ +50°C 12 VDC / 24 VAC  58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 In:	Sensitivity Colour:	0.9 lux@50IRE (AGC max, Sensup 0FF)
Lens Mount: Lens Drive Type: Auto iris (DC), Manual iris  On/Off  On/Off  Onf ~ 8x  Smart IR: Off / On (1~20)  High Speed Shutter: S/N Ratio: Digital Noise Reduction:  MDR: BLC Back Light: Highlight Compensation (HLC): White Balance: Sharpness: OFf / On (1~20)  White Balance: Sharpness: OFf/ON, Level, Mode  ATW, AWB, AWC, Manual Sharpness: OFf / On (1~20)  Oe-Fog: Off/On Privacy zones: OSD: Reverse: OSD: Reverse: OMOIO Detection: Sens up: Remote Control: Video Outputs: Under Outputs: Operating Temperature: Supply Voltage: Dimensions ( W x H x D):  Power Consumption (W):  Auto iris (DC), Manual iris  On/Off Axx Auto iris (DC), Manual iris  On/Off Axx Axx Off / On (1~20)  Off ~ 8x  Off / On (1~20)  Off/Low/Mid/High  OPFA  AGC: O~20 adjustable  VDR / BLC / HLC / OFF  Off/ON, Level, Mode  ATW, AWB, AWC, Manual  Off / On (1~20)  Off / Sensitivity / 4 Area setting  Coaxitron, data on coax cable  1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75  OHM (BNC) WDR off  Less than 90%, non condensing  Operating Temperature: Supply Voltage: Dimensions ( W x H x D):  Off / On (1~20)  On/Off/ Sensitivity / 4 Area setting  Coaxitron, data on coax cable  1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75  OHM (BNC) WDR off  Less than 90%, non condensing  Operating Temperature:  -10°C ~ +50°C  12 VDC / 24 VAC  58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 In:	Sensitivity B/W:	0.001 Lux@F1.2 with Sens-up x32
Lens Drive Type: Lens Shading Compensation:  Digital Zoom: Smart IR: Off / On (1~20)  High Speed Shutter: S/N Ratio: Digital Noise Reduction: AGC: WDR: BLC Back Light: Highlight Compensation (HLC): White Balance: Sharpness: De-Fog: De-Fog: OFF/ ATW, AWB, AWC, Manual Sharpness: OFF / On (1~20)  Privacy zones: OSD: Reverse: Motion Detection: Sens up: Remote Control: Video Outputs: Uens Sharpness: Coperating Temperature: Supply Voltage: Dimensions ( W x H x D):  Power Consumption (W):  Auto iris (DC), Manual iris On/Off On), Manual iris On/Off Ax On (1~20) Off/Low/Mid/High Off/Cop Off/On Off/On, Level, Mode Off/On, Level, Mode ATW, AWB, AWC, Manual Off/On Of	Col/B:	Auto (ICR) / Color / B/W / External
Lens Shading Compensation:  Digital Zoom: Smart IR: Off / On (1~20)  High Speed Shutter: S/N Ratio: Digital Noise Reduction: Off/Low/Mid/High AGC: WDR: Highlight Compensation (HLC): White Balance: Sharpness: OFF/ON, Level, Mode  White Balance: ATW, AWB, AWC, Manual Sharpness: OFF/On (1~20) De-Fog: OFF/On Privacy zones: OSD: Reverse: OSD: Sens up: Coaxitron, data on coax cable Tx HD-TVI (BNC), Tx Composite 1.0Vp-p 75 OHM (BNC) WDR off Less than 90%, non condensing Operating Temperature: Supply Voltage: Dimensions (Wx H x D):  Off / On (1~20) On/Off / Sensitivity / 4 Area setting Operating Temperature: Supply Voltage: Dimensions (Wx H x D):  Off / On (1~20) On/Off / Sensitivity / 4 Area setting Operating Temperature: -10°C ~ +50°C Supply Voltage: -10°C ~ 24 VAC  58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 ln:	Lens Mount:	C/CS mount
Compensation:  Digital Zoom: Smart IR: Off / On (1~20)  High Speed Shutter: S/N Ratio:  Digital Noise Reduction: Off/Low/Mid/High AGC: WDR: BLC Back Light: WDR / BLC / HLC / OFF  Highlight Compensation (HLC): White Balance: Sharpness: Off / On (1~20)  De-Fog: Off/On Privacy zones: OSD: Reverse: OSD: Motion Detection: Sens up: Remote Control: Video Outputs: Uideo Outputs: Supply Voltage: Dimensions ( W x H x D):  Digital Zoom: Off / On (1~20) Off/On (1~20) Off/On Off/ Sensitivity / 4 Area setting Off ~ x32, auto Coaxitron, data on coax cable 1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75 OHM (BNC) WDR off Uideo Consumption (W):  Sens up: Off ~ +50°C Supply Voltage: Dimensions ( W x H x D):  Off / On (1~20) Off / Sensitivity / 4 Area setting Off ~ x32, auto Coaxitron, data on coax cable 1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75 OHM (BNC) WDR off Uideo Coutputs: Off / +50°C Supply Voltage: Dimensions ( W x H x D):  Off / 24 VAC  S8 x 52 x 123 mm - 2.28 x 2.05 x 4.84 In:	Lens Drive Type:	Auto iris (DC), Manual iris
Smart IR: Off / On (1~20) High Speed Shutter: S/N Ratio: >50dB (AGC off)  Digital Noise Reduction: Off/Low/Mid/High AGC: WDR: P9dB BLC Back Light: WIghlight Compensation (HLC): White Balance: Sharpness: OFF / On (1~20) De-Fog: OFF/ON, Level, Mode ATW, AWB, AWC, Manual OFF/ON Privacy zones: OSD: English Reverse: Motion Detection: Sens up: Remote Control: Video Outputs: Video Outputs: OFF / On (1~20) OFF / On (1~		On/Off
High Speed Shutter:  S/N Ratio:  >50dB (AGC off)  Digital Noise Reduction:  AGC:  WDR:  BLC Back Light:  Highlight Compensation (HLC):  White Balance:  Sharpness:  De-Fog:  De-Fog:  Motion Detection:  Sens up:  Remote Control:  Video Outputs:  United Taylor and the state of the	Digital Zoom:	Off ~ 8x
S/N Ratio: Digital Noise Reduction: AGC: WDR: BLC Back Light: Highlight Compensation (HLC): White Balance: Sharpness: De-Fog: De-Fog: DF/ON, Level, Mode ATW, AWB, AWC, Manual Sharpness: Off / On (1~20) De-Fog: De-Fog: DF/On Privacy zones: OSD: Reverse: Motion Detection: Sens up: Remote Control: Video Outputs: Video Outputs:  Uideo Outputs:  Operating Temperature: Supply Voltage: Dimensions ( W x H x D):  Sensum Off/Con Deff/Con Def	Smart IR:	Off / On (1~20)
Digital Noise Reduction:  AGC: WDR: BLC Back Light: Highlight Compensation (HLC): White Balance: Sharpness: De-Fog: De-Fog: De-Fog: OSD: Reverse: Motion Detection: Sens up: Remote Control: Video Outputs: Video Outputs:  Order ATW, AWB, AWC, Manual ATW, AWB, AWC, Manual ATW, AWB, AWC, Manual Off/On Dertog: Off/On Dertog: Off/On Dertog: Off/H-REV/V-REV  On/Off/ Sensitivity/ 4 Area setting Off ~ x32, auto Coaxitron, data on coax cable Tx HD-TVI (BNC), 1 x Composite 1.0Vp-p 75 OHM (BNC) WDR off Uess than 90%, non condensing Dertog: Dimensions (Wx H x D):  Dimensions (Wx H x D):  Over Consumption (W):  Operating Temperature: Supply Voltage: Dimensions (Wx H x D):  Over Consumption (W):  Off/Low/Mid/High Off/ AGC: Over Off Over Union Off/Con Off/On (1~20) Off/On (1~20	High Speed Shutter:	1/25 ~ 1/30.000 sec, auto, Flicker
AGC: WDR: 99dB  BLC Back Light: Highlight Compensation (HLC): White Balance: Sharpness: De-Fog: De-Fog: Off/On Privacy zones: OSD: Reverse: Motion Detection: Sens up: Remote Control: Video Outputs: Video Outputs:  Uniform Temperature: Supply Voltage: Dimensions ( W x H x D):  Post	S/N Ratio:	>50dB (AGC off)
WDR: BLC Back Light: Highlight Compensation (HLC): White Balance: Sharpness: De-Fog: De-Fog: Off / On (1~20) De-Fog: Off/On Privacy zones: OSD: Reverse: Motion Detection: Sens up: Remote Control: Video Outputs: Video Outputs:  Operating Temperature: Supply Voltage: Dimensions ( W x H x D):  WDR / BLC / HLC / OFF WDR / BLC / HLC / OFF  WDR / BLC / HLC / OFF  WDR / BLC / HLC / OFF  WDR / BLC / HLC / OFF  WDR / BLC / HLC / OFF  WDR / BLC / HLC / OFF  Off/ON, Level, Mode  Off/ON  (Namual  Off/On  Of	Digital Noise Reduction:	Off/Low/Mid/High
BLC Back Light: Highlight Compensation (HLC): White Balance: Sharpness: Off / On (1~20) De-Fog: OFf/On Privacy zones: OSD: Reverse: Motion Detection: Sens up: Remote Control: Video Outputs: Video Outputs:  Operating Temperature: Supply Voltage: Dimensions ( W x H x D):  White Balance: ATW, AWB, AWC, Manual Off / On (1~20) Off / On (	AGC:	0~20 adjustable
Highlight Compensation (HLC):  White Balance: Sharpness: Off / On (1~20) De-Fog: Off/On Privacy zones: OSD: Reverse: Motion Detection: Sens up: Remote Control: Video Outputs: Video Outputs: Operating Temperature: Supply Voltage: Dimensions ( W x H x D):  White Balance: ATW, AWB, AWC, Manual Off / On (1~20) Off / On (	WDR:	99dB
White Balance: Sharpness: Off / On (1~20) De-Fog: OSD: Reverse: OSD: Sens up: Remote Control: Video Outputs: Humidity: Operating Temperature: Supply Voltage: Dimensions ( W x H x D):  White Balance: ATW, AWB, AWC, Manual Off / On (1~20) O	BLC Back Light:	WDR / BLC / HLC / OFF
Sharpness:  De-Fog:  De-Fog:  Off/On  Privacy zones:  OSD:  Reverse:  Motion Detection: Sens up:  Remote Control:  Video Outputs:  Uideo Outputs:  Operating Temperature: Supply Voltage:  Dimensions ( W x H x D):  De-Fog:  Off / On (1~20)  Off/On  Off/On  16 zones  English  On/ Off/ Sensitivity/ 4 Area setting  On/ Off/ Sensitivity/ 4 Area setting  On/ Off ~ x32, auto  Coaxitron, data on coax cable  1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75  OHM (BNC) WDR off  Less than 90%, non condensing  12 VDC / 24 VAC  S8 x 52 x 123 mm - 2.28 x 2.05 x 4.84 In:		Off/ON, Level, Mode
De-Fog: Privacy zones: OSD: Reverse: Off/ H-REV/ V-REV  Motion Detection: Sens up: Remote Control: Video Outputs: Video Outputs: Operating Temperature: Supply Voltage: Dimensions ( W x H x D):  DSD: DSD: DSD: DSD: DSD: DF (Off/On D16/On D16/On D16/On D6/On D6/D6/On D6/D6/On D6/D6/On D6/D6/D6/D6/D6/D6/D6/D6/D6/D6/D6/D6/D6/D	White Balance:	ATW, AWB, AWC, Manual
Privacy zones:  OSD:  Reverse:  Motion Detection: Sens up:  Remote Control:  Video Outputs:  Uideo Outputs:  Operating Temperature: Supply Voltage: Dimensions ( W x H x D):  Power Consumption (W):  Off / Hamidity / Hamidity:  16 zones  English  Con/ Off / Sensitivity / 4 Area setting  On/ Off / Sensitivity / 4 Area setting  Off ~ x32, auto  Coaxitron, data on coax cable  1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75  OHM (BNC) WDR off  less than 90%, non condensing  -10°C ~ +50°C  12 VDC / 24 VAC  58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 ln:	Sharpness:	Off / On (1~20)
OSD: Reverse: Off/ H-REV/ V-REV  Motion Detection: Sens up: Off ~ x32, auto  Coaxitron, data on coax cable  1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75 OHM (BNC) WDR off  Humidity: Operating Temperature: Supply Voltage: Dimensions ( W x H x D):  Power Consumption (W):  Sens up: On/ Off/ Sensitivity/ 4 Area setting Coaxitron, data on coax cable 1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75 OHM (BNC) WDR off Less than 90%, non condensing 12 VDC / 24 VAC 58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 In:	De-Fog:	Off/On
Reverse:  Motion Detection: Sens up:  Remote Control:  Video Outputs:  Unique Operating Temperature: Supply Voltage:  Dimensions ( W x H x D):  Power Consumption (W):  Motion Detection: On/ Off/ Sensitivity/ 4 Area setting Off ~ x32, auto Coaxitron, data on coax cable 1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75 OHM (BNC) WDR off less than 90%, non condensing -10°C ~ +50°C 58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 In:	Privacy zones:	16 zones
Motion Detection: Sens up: On/ Off/ Sensitivity/ 4 Area setting Off ~ x32, auto Coaxitron, data on coax cable Video Outputs: Video Outputs:  Humidity: Operating Temperature: Supply Voltage: Dimensions ( W x H x D):  On/ Off/ Sensitivity/ 4 Area setting Off ~ x32, auto Coaxitron, data on coax cable 1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75 OHM (BNC) WDR off less than 90%, non condensing -10°C ~ +50°C 12 VDC / 24 VAC 58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 In:	OSD:	English
Sens up:  Remote Control:  Video Outputs:  Humidity:  Operating Temperature: Supply Voltage:  Dimensions ( W x H x D):  Sens up:  Off ~ x32, auto  Coaxitron, data on coax cable  1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75  OHM (BNC) WDR off  less than 90%, non condensing  -10°C ~ +50°C  12 VDC / 24 VAC  58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 In:  Power Consumption (W):	Reverse:	Off/ H-REV/ V-REV
Remote Control:  Video Outputs:  Humidity:  Operating Temperature: Supply Voltage:  Dimensions ( W x H x D):  Coaxitron, data on coax cable  1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75  OHM (BNC) WDR off  less than 90%, non condensing  -10°C ~ +50°C  12 VDC / 24 VAC  58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 In:  Power Consumption (W):	Motion Detection:	On/ Off/ Sensitivity/ 4 Area setting
Video Outputs:  1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75 OHM (BNC) WDR off  Humidity:  Operating Temperature: Supply Voltage: Dimensions ( W x H x D):  1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75 OHM (BNC) WDR off  Less than 90%, non condensing -10°C ~ +50°C 12 VDC / 24 VAC 58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 In:  Power Consumption (W):  3	Sens up:	Off ~ x32, auto
OHM (BNC) WDR off  Humidity:  Operating Temperature: Supply Voltage: Dimensions (Wx H x D):  S8 x 52 x 123 mm - 2.28 x 2.05 x 4.84 In:  Power Consumption (W):  3	Remote Control:	Coaxitron, data on coax cable
Operating Temperature:         -10°C ~ +50°C           Supply Voltage:         12 VDC / 24 VAC           Dimensions (Wx H x D):         58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 ln:           Power Consumption (W):         3	Video Outputs:	
Supply Voltage: 12 VDC / 24 VAC  Dimensions ( W x H x D): 58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 ln:  Power Consumption (W): 3	Humidity:	less than 90%, non condensing
Dimensions ( W x H x D): 58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 ln:  Power Consumption (W): 3	Operating Temperature:	-10°C ~ +50°C
Power Consumption (W):	Supply Voltage:	12 VDC / 24 VAC
3	Dimensions (WxHxD):	58 x 52 x 123 mm - 2.28 x 2.05 x 4.84 ln:
Weight: 0.35 kg - 0.77 lbs	Power Consumption (W):	3
	Weight:	0.35 kg - 0.77 lbs

# **ACCESSORIES**

GBR-WA03





#### 2 Megapixel Full HD-TVI Fixed Dome Camera IR 28 LED WDR

- Dual video output: HD-TVI and analogue composite
- Smart IR LED Control with adjustable level
- Motion detection function
- Privacy Zone Masking Function
- 3 Axis Gimbal, to mount on Wall or Ceiling
- Support Dual Power AC24V/DC12V





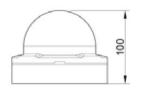


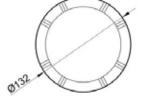






# **DIMENSIONS (mm)**





Dimensions:

Image Sensor:	1/2.8" CMOS Sony Exmor™ Progressive Scan
Pixels - Effective:	1920(H) x 1080(V)
Scanning System:	PAL, 50Hz or NTSC, 60 HZ, selectable
Sensitivity Colour:	0.9 lux@50IRE (AGC max, Sensup OFF)
Sensitivity B/W:	0 Lux LED IR on
Col/B:	Auto (ICR) / Color / B/W / External
Lens Focal Length:	2.8 ~ 12 mm
Viewing Angle:	120.9°(W) ~ 37.1°(T)
Iris F-Number:	F= 1.6 ~ 360
Lens Drive Type:	Auto iris (DC)
Digital Zoom:	Off ~ 8x
IR LED:	28 pcs.
Smart IR:	Off / On (1~20)
Optical Wavelength:	850 nm
Max. IR Distance:	15/30 m (according to scene reflexion)
High Speed Shutter:	1/25 ~ 1/30.000 sec, auto, Flicker
S/N Ratio:	>50dB (AGC off)
BLC Back Light:	WDR/BLC/HLC/OFF
WDR:	99dB
Digital Noise Reduction:	Off/Low/Mid/High
AGC:	0~20 adjustable, 15=default
White Balance:	ATW, AWB, AWC, Manual
Highlight Compensation (HLC):	Off/ON, Level, Mode
De-Fog:	Off/On
Privacy zones:	16 zones
OSD:	English
Reverse:	Off/ H-REV/ V-REV
Motion Detection:	On/ Off/ Sensitivity/ 4 Area setting
Sens up:	Off ~ x32, auto
Remote Control:	Coaxitron, data on coax cable
Video Outputs:	1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75 OHM (BNC) WDR off
Humidity:	less than 90%, non condensing
Operating Temperature:	-25°C ~ +55°C
Supply Voltage:	12 VDC / 24 VAC
Power Consumption (W):	6 (LED on)
Weight:	0.5 kg - 1.1 lbs

132 x 100 mm - 5.2 x 3.94 ln

# **ACCESSORIES**

GBR-WA06 GBR-IC06 GAC-B0103A GAC-B0203A









GAC-B0303A





# 2 Megapixel Full HD-TVI Eyeball Camera 2.8mm ICR IR LED

- Full HD, 1920 x 1080p Output
- Smart IR Control
- Weatherproof Outdoor Installation (IP66)
- Power Input DC12V











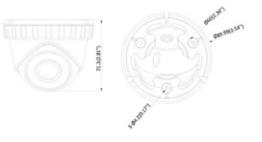


Image Sensor:	1/3" Progressive Scan CMOS, 2 Megapixel
Pixels - Effective:	1984(H) x 1105(V)
Scanning System:	PAL / NTSC
Sensitivity Colour:	0.01 lux @ F1.2 (AGC ON)
Sensitivity B/W:	0 Lux LED IR on
Col/B:	Auto / Color / B&W, IR-cut filter removable
Обу В.	(ICR)
Lens Focal Length:	2.8 mm
Viewing Angle:	105.5°(H) ~ 32.9°(V)
Iris F-Number:	F 2.0
Lens Drive Type:	Fixed Iris
IR LED:	24 pcs.
Optical Wavelength:	850 nm
Max. IR Distance:	10/20 m (according to scene reflexion)
High Speed Shutter:	1/25 ~ 1/50.000 sec
S/N Ratio:	>62 dB
Digital Noise Reduction:	2D DNR
AGC:	Off, Low, Middle, High
BLC Back Light:	Auto
White Balance:	ATW, Manual
OSD:	English
Reverse:	Off/ H-REV/ V-REV
Coaxial control:	Coaxitron®, CCVC
Video Outputs:	1x HD-TVI (BNC)
Protection Rating:	IP66
Humidity:	less than 90%, non condensing
Operating Temperature:	-40°C ~ +60°C
Supply Voltage:	12 VDC ±10%
Power Consumption (W):	4
\\/-:-L+	0.27 kg 0.75 lbs
Weight: Dimensions:	0.34 kg - 0.75 lbs 90 x 70 mm - 3.54 x 2.76 ln
Dimensions:	70 X /0 IIIIII - 3.34 X 2.70 III



# 2 Megapixel Full HD-TVI Eye Ball Camera 3.6mm ICR IR LED

• Miniature camera

GCT-K0116E

- Full HD, 1920 x 1080p Output
- Weatherproof Outdoor Installation (IP66)
- Power Input DC12V











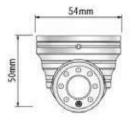




Image Sensor:	1/2.7" Progressive scan CMOS 2 Megapixel
Pixels - Effective:	1930(H) x 1088(V)
Sensitivity Colour:	0.1 lux 50IRE@F1.8 (AGC ON)
Sensitivity B/W:	0 Lux LED IR on
Col/B:	Auto (ICR) / Color / B/W / External
Lens Focal Length:	3.6 mm
Viewing Angle:	99°
Iris F-Number:	F= 1.8
Lens Drive Type:	Fixed Iris
IR LED:	10 pcs.
Optical Wavelength:	850 nm
Max. IR Distance:	5m (Indoor), 3m (Outdoor)
High Speed Shutter:	1/25 ~ 1/10,000 sec
S/N Ratio:	>40 dB
AGC:	1~5 Level
BLC Back Light:	BLC / HLC / off
White Balance:	ATW, Manual, Push, Presets (8000K, 6000K,
	4200K, 3000K)
Reverse:	4200K, 3000K) Mirror, 180°
Reverse: Motion Detection:	4200K, 3000K) Mirror, 180° On/Off (4 Zones)
Reverse:	4200K, 3000K) Mirror, 180° On/Off (4 Zones) 2 zones, rectangle
Reverse: Motion Detection: Privacy zones: OSD:	4200K, 3000K) Mirror, 180° On/Off (4 Zones) 2 zones, rectangle English
Reverse: Motion Detection: Privacy zones:	4200K, 3000K) Mirror, 180° On/Off (4 Zones) 2 zones, rectangle English Coaxitron®, CCVC
Reverse: Motion Detection: Privacy zones: OSD:	4200K, 3000K) Mirror, 180° On/Off (4 Zones) 2 zones, rectangle English Coaxitron®, CCVC 1 CH HD-TVI (BNC)
Reverse: Motion Detection: Privacy zones: OSD: Coaxial control:	4200K, 3000K) Mirror, 180° On/Off (4 Zones) 2 zones, rectangle English Coaxitron®, CCVC 1 CH HD-TVI (BNC) IP66
Reverse: Motion Detection: Privacy zones: OSD: Coaxial control: Video Outputs:	4200K, 3000K) Mirror, 180° On/Off [4 Zones] 2 zones, rectangle English Coaxitron®, CCVC 1 CH HD-TVI (BNC) IP66 less than 90%, non condensing
Reverse: Motion Detection: Privacy zones: OSD: Coaxial control: Video Outputs: Protection Rating:	4200K, 3000K)  Mirror, 180°  On/Off [4 Zones]  2 zones, rectangle  English  Coaxitron®, CCVC  1 CH HD-TVI (BNC)  IP66  less than 90%, non condensing  -10°C ~ +50°C
Reverse: Motion Detection: Privacy zones: OSD: Coaxial control: Video Outputs: Protection Rating: Humidity: Operating Temperature: Supply Voltage:	4200K, 3000K) Mirror, 180° On/Off [4 Zones] 2 zones, rectangle English Coaxitron®, CCVC 1 CH HD-TVI (BNC) IP66 less than 90%, non condensing
Reverse: Motion Detection: Privacy zones: OSD: Coaxial control: Video Outputs: Protection Rating: Humidity: Operating Temperature:	4200K, 3000K)  Mirror, 180°  On/Off [4 Zones]  2 zones, rectangle  English  Coaxitron®, CCVC  1 CH HD-TVI (BNC)  IP66  less than 90%, non condensing  -10°C ~ +50°C
Reverse: Motion Detection: Privacy zones: OSD: Coaxial control: Video Outputs: Protection Rating: Humidity: Operating Temperature: Supply Voltage: Power Consumption (W):	4200K, 3000K)  Mirror, 180°  On/Off [4 Zones]  2 zones, rectangle  English  Coaxitron®, CCVC  1 CH HD-TVI (BNC)  IP66  less than 90%, non condensing  -10°C ~ +50°C  12 Vdc  4
Reverse: Motion Detection: Privacy zones: OSD: Coaxial control: Video Outputs: Protection Rating: Humidity: Operating Temperature: Supply Voltage:	4200K, 3000K)  Mirror, 180°  On/Off (4 Zones)  2 zones, rectangle  English  Coaxitron®, CCVC  1 CH HD-TVI (BNC)  IP66  less than 90%, non condensing  -10°C ~ +50°C



# 2 Megapixel Full HD extreme backlight TVI vandalproof dome , IR LEDS

- 2 Megapixels CMOS, Colour/B&W Camera
- Varifocal Lens: f = 2.8 12 mm
- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- Weatherproof Outdoor Installation (IP66)
- Vandal Resistant Dome (IK10)
- 3 Axis Gimbal, to mount on Wall or Ceiling









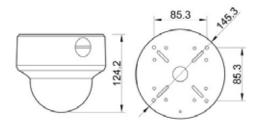








# DIMENSIONS (mm)



### **ACCESSORIES**

GBR-WA09 GBR-WA09J GBR-CE04 GBR-CM04









GBR-PM04



Image Sensor:	1/2.7" progressive scan CMOS
Pixels - Effective:	172.7 progressive scan cinos 1984(H) x 1105(V)
	PAL / NTSC
Scanning System:	•
Col/B:	SMART / Color / B/W
Sensitivity Colour:	0.014 lux @ F1.4 (AGC ON)
Sensitivity B/W:	0 Lux LED IR on
Lens Focal Length:	2.8 ~ 12 mm
Viewing Angle:	105.2° (H) ~ 32.8° (V)
Iris F-Number:	F= 1.4
Iris Operation:	Fixed Iris
S/N Ratio:	62 dB
IR LED:	24 pcs.
Max. IR Distance:	Up to 40m
High Speed Shutter:	1/25 ~ 1/50.000 sec
Frame Rate:	25 fps (1920 x 1080)
White Balance:	ATW, Manual
BLC Back Light:	On/Off
Digital Noise Reduction:	On/Off
Reverse:	Mirror
Privacy Masking:	8 Zones
Video Outputs:	1x HD-TVI (BNC)
Coaxial control:	Control over Coax (CoC)
Protection Rating:	IK10, IP66
Operating Temperature:	-40°C ~ +60°C
Humidity:	less than 90%, non condensing
Supply Voltage:	12VDC
Power Consumption (W):	
1	3
Weight:	0.9 kg - 1.98 lbs
Dimensions:	146 x 125 mm - 5.75 x 4.92 ln

# GCT-K1326V



#### 2 Megapixel Full HD-TVI VF-Fixed Dome Camera IR LED WDR

- 2 Megapixels CMOS, Colour/B&W Camera
- Dual video output: HD-TVI and analogue composite
- Smart IR Control with adjustable level
- Motion detection function
- Privacy Zone Masking Function
- Vandal- and weather-proof
- 3 Axis Gimbal, to mount on Wall or Ceiling
- Support Dual Power AC24V/DC12V







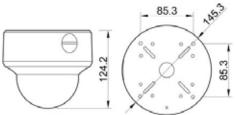






Dimensions:

# DIMENSIONS (mm)



GBR-WA09 GBR-WA09J GBR-CE04 GBR-FB10









Image Sensor:	1/3" Progressive Scan CMOS, 2 Megapixel
Pixels - Effective:	1944(H) x 1092(V)
Scanning System:	PAL / NTSC
Sensitivity Colour:	0.014 lux @ F1.4 (AGC ON)
Sensitivity B/W:	0 Lux LED IR on
Col/B:	Auto (ICR) / Color / B/W / External
Lens Focal Length:	2.8 ~ 12 mm
Viewing Angle:	103°(H) ~ 32.1°(V)
Iris F-Number:	F = 1.4 ~2.8
Lens Drive Type:	Fixed Iris
Digital Zoom:	Off ~ 8x
IR LED:	24 pcs.
Smart IR:	Off / On
Optical Wavelength:	850 nm
Max. IR Distance:	25/40 m (according to scene reflexion)
High Speed Shutter:	1/25 ~ 1/50.000 sec
S/N Ratio:	>62 dB
Digital Noise Reduction:	2DNR/3DNR (Off/On)
AGC:	Adjustable
Sens up:	x2 ~ x30, auto
WDR:	120dB
BLC Back Light:	WDR/BLC/HLC/OFF
White Balance:	ATW, AWC, Manual
Privacy zones:	8 zones, polygonal
OSD:	Yes
Reverse:	Off/ H-REV/ V-REV
Motion Detection:	On/ Off/ Sensitivity/ 4 Area setting
Video enhancement:	Defog
Coaxial control:	Coaxitron®, CCVC
Video Outputs:	1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75
video odipuis.	OHM (BNC) WDR off
Protection Rating:	IP66 / IK10
Humidity:	less than 90%, non condensing
Operating Temperature:	-30°C ~ +60°C
Supply Voltage:	12 VDC / 24 VAC
Power Consumption (W):	6 (IR LED on)
Weight:	1.3 kg - 2.87 lbs

145.3 x 124.2 mm - 5.72 x 4.89 ln

# **ACCESSORIES**



# 2 Megapixel Full HD-TVI VF-Fixed Dome Camera IR LED WDR

- 2 Megapixel Sony® Exmor™ Sensor with superior low light performance
- Dual video output: HD-TVI and analogue composite
- Smart IR Control with adjustable level
- Motion detection function
- Privacy Zone Masking Function
- Vandal- and weather-proof
- 3 Axis Gimbal, to mount on Wall or Ceiling
- Support Dual Power AC24V/DC12V













# **DIMENSIONS (mm)**

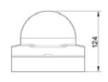




Image Sensor:	1/2.8" CMOS Sony Exmor™ Progressive Scan
Pixels - Effective:	1920(H) x 1080(V)
Scanning System:	PAL, 50Hz or NTSC, 60 HZ, selectable
Sensitivity Colour:	0.9 lux@50IRE (AGC max, Sensup 0FF)
Sensitivity B/W:	0 Lux LED IR on
Col/B:	Auto (ICR) / Color / B/W / External
Lens Focal Length:	2.8 ~ 12 mm
Viewing Angle:	120.9°(W) ~ 37.1°(T)
Iris F-Number:	F= 1.6 ~ 360
Lens Drive Type:	Auto iris (DC)
Digital Zoom:	Off ~ 8x
IR LED:	28 pcs.
Smart IR:	Off / On (1~20)
Optical Wavelength:	850 nm
Max. IR Distance:	15/30 m (according to scene reflexion)
High Speed Shutter:	1/25 ~ 1/30.000 sec, auto, Flicker
S/N Ratio:	>50dB (AGC off)
Digital Noise Reduction:	Off/Low/Mid/High
AGC:	0~20 adjustable, 15=default
WDR:	99dB
BLC Back Light:	On/ Off/ Area/ Level
Highlight Compensation (HLC):	Off/ON, Level, Mode
White Balance:	ATW, AWB, AWC, Manual
De-Fog:	Off/On
Privacy zones:	16 zones
OSD:	English
Reverse:	Off/ H-REV/ V-REV
Motion Detection:	On/ Off/ Sensitivity/ 4 Area setting
Sens up:	Off ~ x32, auto
Coaxial control:	Pelco-C (Coaxitron®)
Video Outputs:	1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75 OHM (BNC) WDR off
Protection Rating:	IK10, IP66
Humidity:	less than 90%, non condensing
Operating Temperature:	-25°C ~ +55°C
Supply Voltage:	12 VDC / 24 VAC
Power Consumption (W):	6 (IR LED on)
Weight:	1 kg - 2.2 lbs
Dimensions:	150 x 124 mm - 5.91 x 4.88 ln

#### **ACCESSORIES**

GBR-WA04 GBR-CE02 GBR-WB02 GBR-IC04









GAC-B0504A GAC-B0604A GAC-B0704A









# 2 Megapixel Full HD-TVI Bullet Camera ICR IR LED

- Full HD, 1920 x 1080p Output
- Smart IR Control

GCT-K0123T

- Weatherproof Outdoor Installation (IP66)
- Power Input DC12V



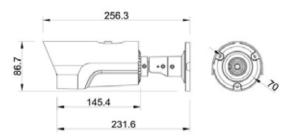








# DIMENSIONS (mm)



# **ACCESSORIES**

GBR-JB03W



Image Sensor:	1/3" Progressive Scan CMOS, 2 megapixel
Pixels - Effective:	1984(H) x 1105(V)
Scanning System:	PAL / NTSC
Sensitivity Colour:	0.01 lux @ F1.2 (AGC ON)
Sensitivity B/W:	0 Lux LED IR on
Col/B:	Auto / Color / B&W, IR-cut filter removable (ICR)
Lens Focal Length:	3.6 mm
Viewing Angle:	84°(H) ~ 62°(V)
Iris F-Number:	F 2.0
Lens Drive Type:	Fixed Iris
IR LED:	2 pcs. Extrem Led's
Optical Wavelength:	850 nm
Max. IR Distance:	25/40 m (according to scene reflexion)
High Speed Shutter:	1/25 ~ 1/50.000 sec
S/N Ratio:	>62 dB
Digital Noise Reduction:	2D DNR
AGC:	Off, Low, Middle, High
BLC Back Light:	Auto
White Balance:	ATW, Manual
OSD:	English
Reverse:	Off/ H-REV/ V-REV
Coaxial control:	Coaxitron®, CCVC
Video Outputs:	1x HD-TVI (BNC)
Protection Rating:	IP66
Humidity:	less than 90%, non condensing
Operating Temperature:	-40°C ~ +60°C
Supply Voltage:	12 VDC ±10%
Power Consumption (W):	3.5
Weight:	0.43 kg - 0.95 lbs
Dimensions:	86.7 x 256.3 mm - 3.41 x 10.09 ln



# 2 Megapixel Full HD-TVI Bullet Camera ICR IR LED

- 2 Megapixels CMOS, Colour/B&W Camera
- Varifocal Lens: f = 2.8 12 mm
- 0 Lux: Integrated LED IR Illuminator to see even in total darkness
- Externally Adjustable Vario Focal Lens
- Weatherproof Outdoor Installation (IP66)











#### **ACCESSORIES**

GBR-JB03W GBR-CM04 GBR-PM04







Image Sensor:	1/2.7" progressive scan CMOS
Pixels - Effective:	1984(H) x 1105(V)
Scanning System:	PAL / NTSC
Sensitivity Colour:	0.14 lux @ F1.4, 0.14 lux @ F1.4 (AGC ON)
Sensitivity B/W:	0 Lux LED IR on
Col/B:	SMART / Color / B/W
Lens Focal Length:	2.8 ~ 12 mm
Viewing Angle:	105.2° (H) ~ 32.8° (V)
Iris F-Number:	F= 1.4
Iris Operation:	Fixed Iris
IR LED:	24 pcs.
Optical Wavelength:	850 nm
Max. IR Distance:	Up to 40m
High Speed Shutter:	1/25 ~ 1/50.000 sec
Flickerless:	On/Off
S/N Ratio:	>62 dB
Digital Noise Reduction:	On/Off
AGC:	Automatic
BLC Back Light:	On/Off
White Balance:	ATW, Manual
Privacy Masking:	8 Zones
Reverse:	Mirror
Camera ID:	Off / On
Remote Control:	Coaxial control
Video Outputs:	1x HD-TVI (BNC)
Protection Rating:	IP66
Humidity:	less than 90%, non condensing
Operating Temperature:	-40°C ~ +60°C
Supply Voltage:	12VDC
Dimensions (WxHxD):	92 x 85 x 270 mm - 3.62 x 3.35 x 10.63 ln:
Power Consumption (W):	5
Weight:	0.7 kg - 1.54 lbs

- Full HD, 1920 x 1080p Output
- Dual video output: HD-TVI and analogue composite
- Smart IR Control
- Privacy Zone Masking Function
- Motion detection function
- Weatherproof Outdoor Installation (IP66)
- Externally Adjustable Vario Focal Lens and DC Level
- Support Dual Power AC24V/DC12V









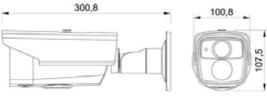




Power Consumption (W):

Weight:

# DIMENSIONS (mm)



# **ACCESSORIES**

GBR-JB03W GBR-CM04 GBR-PM04







10 (IR LED on) 1.55 kg - 3.42 lbs **IP CAMERAS** 

IP RECORDERS

**HD-TVI CAMERAS** 



# 2 Megapixel Full HD-TVI Bullet Camera IR LED WDR

- 2 Megapixel Sony® Exmor™ Sensor with superior low light performance
- Dual video output: HD-TVI and analogue composite
- Smart IR LED Control with adjustable level
- Motion detection function
- Privacy Zone Masking Function
- Weatherproof Outdoor Installation (IP66)
- Externally Adjustable Vario Focal Lens and DC Level
- Support Dual Power AC24V/DC12V













# **DIMENSIONS (mm)**



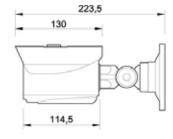


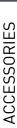
Image Sensor:	1/2.8" CMOS Sony Exmor™ Progressive Scan
Pixels - Effective:	1920(H) x 1080(V)
Scanning System:	PAL, 50Hz or NTSC, 60 HZ, selectable
Sensitivity Colour:	0.9 lux@50IRE (AGC max, Sensup OFF)
Sensitivity B/W:	0 Lux LED IR on
Col/B:	Auto (ICR) / Color / B/W / External
Lens Focal Length:	2.8 ~ 12 mm
Viewing Angle:	120.9°(W) ~ 37.1°(T)
Iris F-Number:	F= 1.6 ~ 360
Lens Drive Type:	Auto iris (DC)
Digital Zoom:	Off ~ 8x
IR LED:	42 pcs.
Smart IR:	Off / On (1~20)
Optical Wavelength:	850 nm
Max. IR Distance:	30/45 m (according to scene reflexion)
High Speed Shutter:	1/25 ~ 1/30.000 sec, auto, Flicker
S/N Ratio:	>50dB (AGC off)
Digital Noise Reduction:	Off/Low/Mid/High
AGC:	0~20 adjustable, 15=default
WDR:	99dB
BLC Back Light:	On/ Off/ Area/ Level
Highlight Compensation (HLC):	Off/ON, Level, Mode
White Balance:	ATW, AWB, AWC, Manual
De-Fog:	Off/On
Privacy zones:	16 zones
OSD:	English
Reverse:	Off/ H-REV/ V-REV
Motion Detection:	On/ Off/ Sensitivity/ 4 Area setting
Sens up:	Off ~ x32, auto
Remote Control:	Coaxitron, data on coax cable
Video Outputs:	1 x HD-TVI (BNC), 1 x Composite 1.0Vp-p 75 OHM (BNC) WDR off
Protection Rating:	IP66
Humidity:	less than 90%, non condensing
Operating Temperature:	-25°C ~ +55°C
Supply Voltage:	12 Vdc, 24 Vac
Power Consumption (W):	8.5 (IR LED on)
Weight:	1.15 kg - 2.54 lbs
Dimensions:	99 x 223.5 mm - 3.9 x 8.8 ln

#### **ACCESSORIES**

GBR-FB03 GBR-PM02









GCT-K1256P

#### 2 MP Full HD Outdoor Motorized Dome TVI-Camera 23x Zoom ICR IR LED

- Full HD, 1920 x 1080p, 30/25 fps over coax
- 23x motorized optical zoom with 16x digital zoom
- Day/Night feature with IR cut filter removable, for higher sensitivity and vibrant colors
- Integrated IR LEDs 150m range
- Weatherproof Outdoor Installation (IP66)
- High Speed Pan/Tilt (400°/sec), minimum speed (0.5°/sec)











# **ACCESSORIES**

GBR-WA08 GBR-WA08C GBR-WA08J GBR-WA08P









GBR-WA08JC GBR-WA08JP GBR-PA08 GBR-CE08L









	. /
Image Sensor:	1/2.8" Progressive Scan CMOS
Pixels - Total:	1920(H) x 1080(V)
Sensitivity Colour:	0.05 Lux@F1.4
Sensitivity B/W:	0.005 lux@F1.4
Col/B:	Auto, IR-cut filter removable (ICR)
Shutter Speed:	1 ~ 1/10.000 sec
Lens Focal Length:	4 ~ 92 mm
Viewing Angle:	49°(Wide) ~ 2.2°(Tele)
Lens Drive Type:	Auto iris (DC)
Digital Zoom:	16x
Max. IR Distance:	150 m
Pan Speed:	Manual: 0.1°/s ~ 400°/s, Preset: 400°/s (max.)
Tilt Speed:	Manual: 0.1°/s ~ 120°/s, Preset: 200°/s (max.)
Range Panning:	360° endless
Range Tilting:	-15° ~ 90° (auto flip)
Number of Preset:	256
Sequence:	8
AGC:	Auto, Manual
S/N Ratio:	>50 dB
Number of Privacy Zones:	8
White Balance:	Auto, Manual, Indoor, Outdoor, ATW
OSD:	English, Yes
Video Outputs:	1 CH HD-TVI (BNC)
Alarm Inputs:	2
Alarm Outputs:	1
Serial Interface(s):	1x RS-485
Protection Rating:	IP66
Certifications:	CE, IP66, RoHS
Operating Temperature:	-30°C ~ +65°C
Humidity:	less than 90%, non condensing
Supply Voltage:	24 Vac
Power Consumption (W):	30
Weight:	4 kg - 8.82 lbs
Dimensions:	185 x 330 mm - 7.28 x 12.99 ln





#### **FEATURES**

The Grundig 1000 TVL camera range takes analogue technology to the limit. It achieves the sharpest and most detailed images of any PAL cameras available today. The latest Megapixel Exmor sensors are used to provide detailed images, with little or no noise, even in poor lighting conditions.

Integral video analytics detects movement, tampering, video loss or covering of the camera itself. A built-in alarm output allows the camera to report such incidents to other devices. SMART infra-red technology prevents the over-exposure of objects close to the camera, in poor lighting, ensuring faces and other details can still be recognised.

#### **INSTALLATION**

The camera offers flexible and simple installation, due to the dual voltage input and its remote configuration capability over the coaxial cable.



#### 1.3 Megapixel HD Box Camera ICR WDR 12VDC/24VAC

- 1.3 Megapixel Sony® Exmor $^{\text{TM}}$  sensor with 1000 TVL highest resolution (analog) and superior low light performance
- 3x to digital zoom without loss of resolution
- Tampering detection shows text in the image "Anti Blocking" or "Anti Shifting"
- Intelligent Video Content Analysis with Motion Tracking
- Remote Control Interfaces over Coax (Coaxitron)
- Support Dual Power AC24V/DC12V











#### **ACCESSORIES**

GBR-WA03



Image Sensor:	1/3" CMOS Sony Exmor 1.3 Megapixel
Scanning System:	PAL, 50Hz or NTSC, 60 HZ, selectable
Pixels - Effective:	1296(H) x 1032(V)
Col/B:	Auto, Color, Removable IR-Cut Filter (ICR)
	0.4 Lux(50IRE) @ F1.2 (SensUp=0, AGC Off),
Sensitivity Colour:	0.0001Lux (50IRE) @ F1.2(AGC.Max.,
	SensUpx64)
High Speed Shutter:	1/50 ~ 1/60.000 sec, auto, Antiflicker
S/N Ratio:	>50dB (AGC off)
Lens Mount:	C/CS mount with adaptor
Lens Drive Type:	Auto Iris (DC), Manual iris
Sens up:	Off ~ x64 auto
AGC:	0~20 adjustable
WDR:	>=96dB
De-Fog:	Off/On
BLC Back Light:	On/Off/HLC
White Balance:	ATW, AWB, AWC, Manual
Digital Noise Reduction:	3D-DNR : Off/Low/Mid/High
Digital Zoom:	Off ~ 8x
Motion Detection:	On/ Off/ Sensitivity/ 4 Area setting
Number of Privacy Zones:	16 programmable zones
Intelligent Video	Scene change detection, masking of the
Analytics:	camera lens
On Screen Alarm	On camera shaking: "Unknown Motion", on
Information:	brightnes change "Blocking!!"
Motion Tracking (Quick Zoom):	On/Off
Lens Shading Compensation:	On/Off
Reverse:	Off/ H-REV/ V-REV
OSD:	Yes, EN/FR/DE
Profile Presets:	Indoor, Outdoor, Elevator, Lobby, Low, High,
Profile Presets:	Hallway
Remote Control:	Coaxitron, data on coax cable
Video Outputs:	1 Ch Composite BNC, 1 Test monitor 2-pin
video odipuis.	connector
Humidity:	less than 95%
Operating Temperature:	-10°C ~ +50°C
Supply Voltage:	12 VDC / 24 VAC
Power Consumption (W):	3
Weight:	0,37 kg - 0 lbs
_	

- 1.3 Megapixel Sony® Exmor™ sensor with 1000 TVL highest resolution (analog) and superior low light performance
- 3x to digital zoom without loss of resolution
- Tampering detection shows text in the image "Anti Blocking" or "Anti Shifting"
- Intelligent Video Content Analysis with Motion Tracking
- Smart IR LED Control with adjustable level
- 3 Axis Gimbal, to mount on Wall or Ceiling
- Remote Control Interfaces over Coax (Coaxitron)
- Built-in Service Monitor Port & OSD Control Port





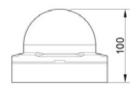


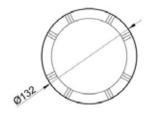






# DIMENSIONS (mm)





#### **ACCESSORIES**

GBR-WA06 GBR-IC06 GKB-A0040P GAC-B0103A









GAC-B0203A GAC-B0303A





Max. IR Distance: 15/30 m (according to scene reflexion) Remote Control: Coaxitron, data on coax cable Video Outputs: 1 Ch Composite BNC, 1 Test monitor 2-pin connector

Alarm Outputs:

Multi-Language Manual, Template, Cable for Service Accessories included: Monitor, Screws, screw driver for Zoom and Focus adjustment less than 90%, non condensing Humidity: Operating Temperature: -25°C ~ +55°C Supply Voltage:

Power Consumption (W): Weight: 0,37 kg - 0 lbs 132 x 100 mm - 5.2 x 3.94 In Dimensions:

**IP CAMERAS** 



#### 1.3 Megapixel HD Integrated Camera 2.8~12mm ICR WDR IR 42 LED

- 1.3 Megapixel Sony® Exmor™ sensor with 1000 TVL highest resolution (analog) and superior low light performance
- 3x to digital zoom without loss of resolution
- Tampering detection shows text in the image "Anti Blocking" or "Anti Shifting"
- Intelligent Video Content Analysis with Motion Tracking
- Smart IR LED Control with adjustable level
- Remote Control Interfaces over Coax (Coaxitron)
- Built-in Service Monitor Port & OSD Control Port
- Support Dual Power AC24V/DC12V









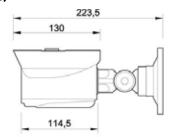






#### DIMENSIONS (mm)





#### **ACCESSORIES**

GBR-FB03 GBR-PM02 GKB-A0040P







Image Sensor:	1/3" CMOS Sony Exmor 1.3 Megapixel
Scanning System:	PAL, 50Hz or NTSC, 60 HZ, selectable
Pixels - Effective:	1302(H) x 1049(V), 1.3 Megapixels
Col/B:	Auto, Color, Removable IR-Cut Filter (ICR)
Sensitivity Colour:	0.4 Lux(50IRE) @ F1.2 (SensUp=0, AGC Off), 0.0001Lux (50IRE) @ F1.2(AGC.Max., SensUpx64)
Sensitivity B/W:	0 Lux LED IR on
High Speed Shutter:	1/50 ~ 1/60.000 sec, auto, Antiflicker
S/N Ratio:	>50dB (AGC off)
Lens Focal Length:	2.8 ~ 12 mm
Horizontal Viewing Angle:	
	102° (Wide) ~ 27° (Tele)
Lens Drive Type:	Auto Iris (DC)
Iris F-Number:	F= 1.2 ~ 360
Sens up:	Off ~ x64 auto
AGC:	0~20 adjustable
WDR:	96dB (Shutter WDR)
De-Fog:	Off/On
BLC Back Light:	On/Off/HLC
White Balance:	ATW, AWB, AWC, Manual
Digital Noise Reduction:	3D-DNR : Off/Low/Mid/High
Digital Zoom:	Off ~ 8x
Motion Detection:	On/ Off/ Sensitivity/ 4 Area setting
Number of Privacy Zones:	16 programmable zones
Intelligent Video Analytics:	Scene change detection, masking of the camera lens
Tampering Alarm:	On/Off
Tampering Alarm: On Screen Alarm Information:	On/Off On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"
On Screen Alarm	On camera shaking: "Unknown Motion", on brightnes
On Screen Alarm Information: Motion Tracking (Quick	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!" On/Off
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV  Yes, EN/FR/DE
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD: Profile Presets:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV  Yes, EN/FR/DE  Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD: Profile Presets: IR LED:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV  Yes, EN/FR/DE  Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway 42 pcs.
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD: Profile Presets: IR LED: Optical Wavelength:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV  Yes, EN/FR/DE Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway  42 pcs.  850 nm
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD: Profile Presets: IR LED: Optical Wavelength: Max. IR Distance:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV  Yes, EN/FR/DE Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway  42 pcs.  850 nm  45/70 m (according to scene reflexion)
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD: Profile Presets: IR LED: Optical Wavelength: Max. IR Distance: Remote Control:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV  Yes, EN/FR/DE  Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway  42 pcs.  850 nm  45/70 m (according to scene reflexion)  Coaxitron, data on coax cable
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD: Profile Presets: IR LED: Optical Wavelength: Max. IR Distance: Remote Control: Video Outputs:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV  Yes, EN/FR/DE  Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway  42 pcs.  850 nm  45/70 m (according to scene reflexion)  Coaxitron, data on coax cable  1 Ch Composite BNC, 1 Test monitor 2-pin connector  1  Multi-Language Manual, Template, Cable for Service Monitor, Screws, screw driver for Zoom and Focus
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD: Profile Presets: IR LED: Optical Wavelength: Max. IR Distance: Remote Control: Video Outputs: Alarm Outputs:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV  Yes, EN/FR/DE  Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway  42 pcs.  850 nm  45/70 m (according to scene reflexion)  Coaxitron, data on coax cable  1 Ch Composite BNC, 1 Test monitor 2-pin connector  1  Multi-Language Manual, Template, Cable for Service
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD: Profile Presets: IR LED: Optical Wavelength: Max. IR Distance: Remote Control: Video Outputs: Alarm Outputs: Accessories included: Protection Rating:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV  Yes, EN/FR/DE  Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway  42 pcs.  850 nm  45/70 m (according to scene reflexion)  Coaxitron, data on coax cable  1 Ch Composite BNC, 1 Test monitor 2-pin connector  1  Multi-Language Manual, Template, Cable for Service Monitor, Screws, screw driver for Zoom and Focus adjustment  IP66
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD: Profile Presets: IR LED: Optical Wavelength: Max. IR Distance: Remote Control: Video Outputs: Alarm Outputs: Accessories included: Protection Rating: Humidity:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV  Yes, EN/FR/DE  Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway  42 pcs.  850 nm  45/70 m (according to scene reflexion)  Coaxitron, data on coax cable  1 Ch Composite BNC, 1 Test monitor 2-pin connector  1  Multi-Language Manual, Template, Cable for Service Monitor, Screws, screw driver for Zoom and Focus adjustment  IP66  less than 90%, non condensing
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD: Profile Presets: IR LED: Optical Wavelength: Max. IR Distance: Remote Control: Video Outputs: Alarm Outputs: Alarm Outputs: Accessories included: Protection Rating: Humidity: Operating Temperature:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV Yes, EN/FR/DE  Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway 42 pcs. 850 nm  45/70 m (according to scene reflexion) Coaxitron, data on coax cable 1 Ch Composite BNC, 1 Test monitor 2-pin connector 1  Multi-Language Manual, Template, Cable for Service Monitor, Screws, screw driver for Zoom and Focus adjustment IP66 less than 90%, non condensing -25°C ~ +55°C
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD: Profile Presets: IR LED: Optical Wavelength: Max. IR Distance: Remote Control: Video Outputs: Alarm Outputs: Alarm Outputs: Accessories included: Protection Rating: Humidity: Operating Temperature: Supply Voltage:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV Yes, EN/FR/DE  Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway 42 pcs. 850 nm  45/70 m (according to scene reflexion) Coaxitron, data on coax cable 1 Ch Composite BNC, 1 Test monitor 2-pin connector 1  Multi-Language Manual, Template, Cable for Service Monitor, Screws, screw driver for Zoom and Focus adjustment IP66 less than 90%, non condensing -25°C ~ +55°C 12 VDC / 24 VAC
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD: Profile Presets: IR LED: Optical Wavelength: Max. IR Distance: Remote Control: Video Outputs: Alarm Outputs: Alarm Outputs: Accessories included: Protection Rating: Humidity: Operating Temperature: Supply Voltage: Power Consumption (W):	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV Yes, EN/FR/DE Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway 42 pcs. 850 nm 45/70 m (according to scene reflexion) Coaxitron, data on coax cable 1 Ch Composite BNC, 1 Test monitor 2-pin connector 1  Multi-Language Manual, Template, Cable for Service Monitor, Screws, screw driver for Zoom and Focus adjustment IP66 less than 90%, non condensing -25°C ~ +55°C 12 VDC / 24 VAC 8.4 (LED on)
On Screen Alarm Information: Motion Tracking (Quick Zoom): Lens Shading Compensation: Reverse: OSD: Profile Presets: IR LED: Optical Wavelength: Max. IR Distance: Remote Control: Video Outputs: Alarm Outputs: Alarm Outputs: Accessories included: Protection Rating: Humidity: Operating Temperature: Supply Voltage:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"  On/Off  On/Off  Off/ H-REV/ V-REV Yes, EN/FR/DE  Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway 42 pcs. 850 nm  45/70 m (according to scene reflexion) Coaxitron, data on coax cable 1 Ch Composite BNC, 1 Test monitor 2-pin connector 1  Multi-Language Manual, Template, Cable for Service Monitor, Screws, screw driver for Zoom and Focus adjustment IP66 less than 90%, non condensing -25°C ~ +55°C 12 VDC / 24 VAC





# 1.3 Megapixel HD Fixdome Camera 2.8~12mm ICR WDR IR 28 LED

- 1.3 Megapixel Sony® Exmor™ sensor with 1000 TVL highest resolution (analog) and superior low light performance
- Tampering detection shows text in the image "Anti Blocking" or "Anti Shifting"
- Intelligent Video Content Analysis with Motion Tracking
- Smart IR LED Control with adjustable level
- 3 Axis Gimbal, 2 ways to mount: Wall/Ceiling Flat and Flush
- Remote Control Interfaces over Coax (Coaxitron)
- Built-in Service Monitor Port & OSD Control Port
- Support Dual Power AC24V/DC12V







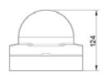








#### DIMENSIONS (mm)





#### **ACCESSORIES**

GBR-WA04 GBR-WB02 GBR-CE02 GBR-IC04









Power Consumption (W):

Dimensions:

GKB-A0040P GAC-B0504A GAC-B0604A GAC-B0704A









Image Sensor:	1/3" CMOS Sony Exmor 1.3 Megapixel
Scanning System:	PAL, 50Hz or NTSC, 60 HZ, selectable
Pixels - Effective:	1302(H) x 1049(V), 1.3 Megapixels
Col/B:	Auto, Color, Removable IR-Cut Filter (ICR)
Sensitivity Colour:	0.4 Lux(50IRE) @ F1.2 (SensUp=0, AGC Off), 0.0001Lux (50IRE) @ F1.2(AGC.Max., SensUpx64)
Sensitivity B/W:	0 Lux LED IR on
High Speed Shutter:	1/50 ~ 1/60.000 sec, auto, Antiflicker
S/N Ratio:	>50dB (AGC off)
Lens Focal Length:	2.8 ~ 12 mm
Horizontal Viewing Angle:	102° (Wide) ~ 27° (Tele)
Lens Drive Type:	Auto Iris (DC)
Iris F-Number:	F= 1.2 ~ 360
Sens up:	Off ~ x64 auto
AGC:	0~20 adjustable
WDR:	96dB (Shutter WDR)
De-Fog:	Off/On
BLC Back Light:	On/Off/HLC
White Balance:	ATW, AWB, AWC, Manual
Digital Noise Reduction:	3D-DNR : Off/Low/Mid/High
Digital Zoom:	Off ~ 8x
Motion Detection:	On/ Off/ Sensitivity/ 4 Area setting
Number of Privacy Zones:	16 programmable zones
Intelligent Video Analytics:	Scene change detection, masking of the camera lens
Tampering Alarm:	On/Off
On Screen Alarm Information:	On camera shaking: "Unknown Motion", on brightnes change "Blocking!!"
Motion Tracking (Quick Zoom):	On/Off
Lens Shading Compensation:	On/Off
Reverse:	Off/ H-REV/ V-REV
OSD:	Yes, EN/FR/DE
Profile Presets:	Indoor, Outdoor, Elevator, Lobby, Low, High, Hallway
IR LED:	28 pcs.
Optical Wavelength:	850 nm
Max. IR Distance:	15/30 m (according to scene reflexion)
Remote Control:	Coaxitron, data on coax cable
Video Outputs:	1 Ch Composite BNC, 1 Test monitor 2-pin connector
Alarm Outputs:	1
Accessories included:	Multi-Language Manual, Template, Cable for Service Monitor, Screws, screw driver for Zoom and Focus adjustment
Protection Rating:	IK10, IP67
Humidity:	less than 90%, non condensing
Operating Temperature:	-25°C ~ +55°C
Supply Voltage:	12 VDC / 24 VAC
Dawer Consumption (M)	

6 (LED on)

1.03 kg - 2.27 lbs

150 x 124 mm - 5.91 x 4.88 ln





The HD-TVI recorders from Grundig connects with TVI, analogue and Full HD IP cameras. This enables incredible system flexibility, allowing for site upgrades from analogue to TVI and IP, or to create bespoke systems using a mix of technologies to suit operational and budget demands. The connect line offers to add 2 Full HD IP cameras, while the professional DVRs allow you to disable TVI or analogue channels and use IP instead, offering you a true tribid system with up to 18 channels

Next to the internal storage you can add Network attached Storage devices to add additional 64TB of storage to any of our recorders.

A "Digital Spot Monitor" feature allows users to display the video from all the system cameras, using just the bandwidth equivalent of a single, Full HD channel. The DVRs support Grundig and other ONVIF IP camerasmaking system upgrades quick and simple. Intelligent event and alarm management features provide rapid search functionality, automatically triggering a series of agreed actions.

Remote access for viewing and managing the NVRs is enabled using an intuitive SCMS App and SCMS PC application.





#### 4 CH Hybrid HD-TVI / Analog, real time Video Recorder

- Accepts either HD-TVI or analog cameras (960H) for every channel
- 2 IP camera2 in 1080p (6 Mbps)
- Auto detects HD-TVI or analog cameras
- High Picture Quality in video display: 1920x1080 (HDMI and VGA outputs)
- Multiplex (Live/Playback, Recording, Backup, Networking)
- Various recording features (Normal, schedule, motion, alarm)
- Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and Smartphone
- Recorded files backup via USB device





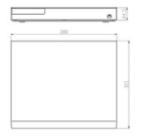














Operating System:	Embedded OS
Video Inputs:	4 CH 960H/HD-TVI (BNC) + 2 CH IP
Video Compression:	H.264
Recording Speed:	25 fps per channel
Recording Resolution:	1920x1080, 1280x720, 960x576, 704x576, 352x288
Recording Mode:	Continuous, Event Alarm, Motion, Video Loss, Schedule
Playback:	Synchronised playback of max. 4 cameras
Motion Detection:	On/ Off/ Area Setting
Search Mode:	Date/Time, Event Alarm, Motion, Search Backup
External Backup:	USB HDD, USB Memory, Network
Video Outputs:	1x VGA, 1x HDMI
Display resolution:	max. 1920 x 1080
Display Speed:	25 fps per channel
Control:	Mouse (USB), WEB browser or client software
Harddisk bay:	1 x SATA II
Max. Storage Capacity:	68 TB (1x4 TB SATA and 8x8 TB NAS)
Audio Inputs:	4 CH RCA (2.0Vp-p, 1K0hms)
Audio Outputs:	1 CH, RCA
Audio Compression:	G.726, G.711 a/u, G.722
Serial Interface(s):	1x RS485 half duplex
Alarm Inputs:	4 contact input N/O or N/C
Alarm Outputs:	1 Relay
Network Interface:	1x 10/100/1000 Base T/TX (RJ-45)
Network Protocol:	IPv4, IPv6, TCP/IP, UDP, RTP, PPPoE, DHCP, DNS, DDNS, NTP, SADP, SMTP, SNMP, NFS, iSCSI
Client software:	Windows (Vista, 7, 8), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iOS, Android
Operating Temperature:	-10°C ~ +55°C
Operating Humidity:	10% ~ 90%, non-condensing
Supply Voltage:	12 VDC (External Power Supply)
Dimensions ( W x H x D):	380 x 290 x 48 mm - 14.96 x 11.42 x 1.89 ln:
Power Consumption (W):	15 (no HDD)
Weight:	1.5 kg - 3.31 lbs



# **GRT-K2208A**



#### 8 CH Hybrid HD-TVI / Analog, real time Video Recorder

- Accepts either HD-TVI or analog cameras (960H) for every channel
- Up to 2 IP cameras in 1080p (6 Mbps)
- Auto detects HD-TVI or analog cameras
- High Picture Quality in video display : 1920x1080 (HDMI and VGA outputs)
- Multiplex (Live/Playback, Recording, Backup, Networking)
- Various recording features (Normal, schedule, motion, alarm)
- Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and Smartphone
- Recorded files backup via USB device















# DIMENSIONS (mm)





#### **REAR VIEW**



Operating System:	Embedded OS
Video Inputs:	8 CH 960H/HD-TVI (BNC) + 2 CH IP
Video Compression:	H.264
Recording Speed:	25 fps per channel
Recording Resolution:	1920x1080, 1280x720, 960x576, 704x576, 352x288
Recording Mode:	Continuous, Event Alarm, Motion, Video Loss, Schedule
Playback:	Synchronised playback of max. 8 cameras
Motion Detection:	On/ Off/ Area Setting
Search Mode:	Date/Time, Event Alarm, Motion, Search Backup
External Backup:	USB HDD, USB Memory, Network
Video Outputs:	1x VGA, 1x HDMI
Display resolution:	max. 1920 x 1080
Display Speed:	25 fps per channel
Max. Storage Capacity:	72 TB (2x4 TB SATA and 8x8 TB NAS)
Harddisk bay:	2 x SATA II
Audio Inputs:	4 CH RCA (2.0Vp-p, 1K0hms)
Audio Outputs:	1 CH, RCA
Audio Compression:	G.711 a/u, G.722, G.726
Serial Interface(s):	1x RS485 half duplex
Alarm Inputs:	8 contact input N/O or N/C
Alarm Outputs:	4 Relay
Network Interface:	1x 10/100/1000 Base T/TX (RJ-45)
Network Protocol:	IPv4, IPv6, TCP/IP, UDP, RTP, PPPoE, DHCP, DNS, DDNS, NTP, SADP, SMTP, SNMP, NFS, iSCSI
Client software:	Windows (Vista, 7, 8), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iOS, Android
Operating Temperature:	-10°C ~ +55°C
Operating Humidity:	10% ~ 90%, non-condensing
Supply Voltage:	12 VDC (External Power Supply)
Dimensions (WxHxD):	380 x 290 x 48 mm - 14.96 x 11.42 x 1.89 ln:
Power Consumption (W):	20 (no HDD)

2 kg - 4.41 lbs

Weight:



#### 16 CH Hybrid HD-TVI / Analog, real time Video Recorder

- Accepts either HD-TVI or analog cameras (960H) for every channel
- Up to 2 IP cameras in 1080p (6 Mbps)
- Auto detects HD-TVI or analog cameras
- High Picture Quality in video display: 1920x1080 (HDMI and VGA outputs)
- Multiplex (Live/Playback, Recording, Backup, Networking)
- Various recording features (Normal, schedule, motion, alarm)
- Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and Smartphone
- Recorded files backup via USB device















# DIMENSIONS (mm)







Operating System:	Embedded OS
Video Inputs:	16 CH 960H/HD-TVI (BNC) or 18 CH IP
Video Compression:	H.264
Recording Speed:	25 fps per channel
Recording Resolution:	1920x1080, 1280x720, 960x576, 704x576, 352x288
Recording Mode:	Continuous, Event Alarm, Motion, Video Loss, Schedule
Playback:	Synchronised playback of max. 8 cameras
Motion Detection:	On/ Off/ Area Setting
Search Mode:	Date/Time, Event Alarm, Motion, Search Backup
External Backup:	USB HDD, USB Memory, Network
Video Outputs:	1x VGA, 1x HDMI
Display resolution:	max. 1920 x 1080
Display Speed:	25 fps per channel
Max. Storage Capacity:	72 TB (2x4 TB SATA and 8x8 TB NAS)
Harddisk bay:	2 x SATA II
Audio Inputs:	4 CH RCA (2.0Vp-p, 1K0hms)
Audio Outputs:	1 CH, RCA
Audio Compression:	G.711 a/u, G.722, G.726
Serial Interface(s):	1x RS485 half duplex
Alarm Inputs:	16 contact input N/O or N/C
Alarm Outputs:	4 Relay
Network Interface:	1x 10/100/1000 Base T/TX (RJ-45)
Network Protocol:	IPv4, IPv6, TCP/IP, UDP, RTP, PPPoE, DHCP, DNS, DDNS, NTP, SADP, SMTP, SNMP, NFS, iSCSI
Client software:	Windows® (XP, Vista, 7, 8, 10), Web Viewer: IE®, Firefox®, Safari®, Mobile: iOS, Android®
Operating Temperature:	-10°C ~ +55°C
Operating Humidity:	10% ~ 90%, non-condensing
Supply Voltage:	12 VDC (External Power Supply)
Dimensions (WxHxD):	380 x 290 x 48 mm - 14.96 x 11.42 x 1.89 ln:
Power Consumption (W):	45 (no HDD)
Weight:	2 kg - 4.41 lbs

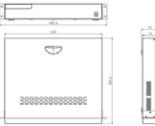
IP CAMERAS



#### 16 CH Tribrid HD-TVI / IP / Analog, real time Video Recorder

- Accepts either HD-TVI, IP or analog cameras (960H) for every channel
- Up to 18 IP cameras in 1080p (6 Mbps)
- Auto detects HD-TVI or analog cameras
- High Picture Quality in video display : 1920x1080 (HDMI and VGA outputs)
- Multiplex (Live/Playback, Recording, Backup, Networking)
- Various recording features (Normal, schedule, motion, alarm)
- Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and Smartphone
- eSATA interface: add external Hard drive to increase record capacity

#### DIMENSIONS (mm)





#### **REAR VIEW**



Operating System:	Embedded OS
Video Inputs:	16 CH 960H/HD-TVI (BNC) or 18 CH IP
Video Compression:	H.264
Recording Speed:	25 fps per channel
• •	1920x1080, 1280x720, 960x576, 704x576,
Recording Resolution:	352x288
Recording Mode:	Continuous, Event Alarm, Motion, Video Loss, Schedule
Playback:	Synchronised playback of max. 16 cameras
Motion Detection:	On/ Off/ Area Setting
Search Mode:	Date/Time, Event Alarm, Motion, Search Backup
External Backup:	USB HDD, USB Memory, Network, eSATA
Video Outputs:	1x VGA, 1x HDMI, 1x BNC
Display resolution:	Up to 1920x1080 (HDMI / VGA), 704x576 (BNC)
Display Speed:	25 fps per channel
Control:	Mouse (USB), WEB browser or client software
Harddisk bay:	4 x SATA II
Max. Storage Capacity:	84 TB (4x4 TB SATA, 1x4TB eSATA and 8x8 TB NAS)
Audio Inputs:	4 CH RCA (2.0Vp-p, 1K0hms)
Audio Outputs:	2 CH, RCA
Audio Compression:	G.711 a/u, G.722, G.726
Serial Interface(s):	1x RS-232, 1x RS-485 (PTZ), 1x RS-485 (Keyboard)
Alarm Inputs:	16 contact input N/O or N/C
Alarm Outputs:	4 Relay
Operating Temperature:	-10°C ~ +55°C
Network Interface:	1x 10/100/1000 Base T/TX (RJ-45)
Network Protocol:	DHCP, DNS, IPv4/IPv6, iSCSI, NFS, NTP, PPPoE, RTP, SADP, SMTP, SNMP, TCP/IP, UDP
Client software:	Windows (Vista, 7, 8), Web Viewer: IE, Firefox, Safari, Chrome; Mobile: iOS, Android
Operating Humidity:	10% ~ 90%, non-condensing
Chassis:	19-inch rack-mounted, 1.5U
Supply Voltage:	110 ~ 240 Vac, 50/60Hz
Dimensions (WxHxD):	445 x 390 x 70 mm - 17.52 x 15.35 x 2.76 ln:
Power Consumption (W):	55 (no HDD)

5 kg - 11.02 lbs

Weight:



#### 4 Megapixel Full HD IP68 Body Worn Camera ICR IR LED

- 4 Megapixels CMOS, Colour/B
- Super HD (2304x1296) and Full HD 1080p resolution video recording
- IR LEDs integrated
- 154° viewing angle
- IP 68 Certification
- Built in 32GB SDRAM
- Video, Image and Audio Recording
- Vibration can activate video recording

#### DIMENSIONS (mm)





#### **REAR VIEW**

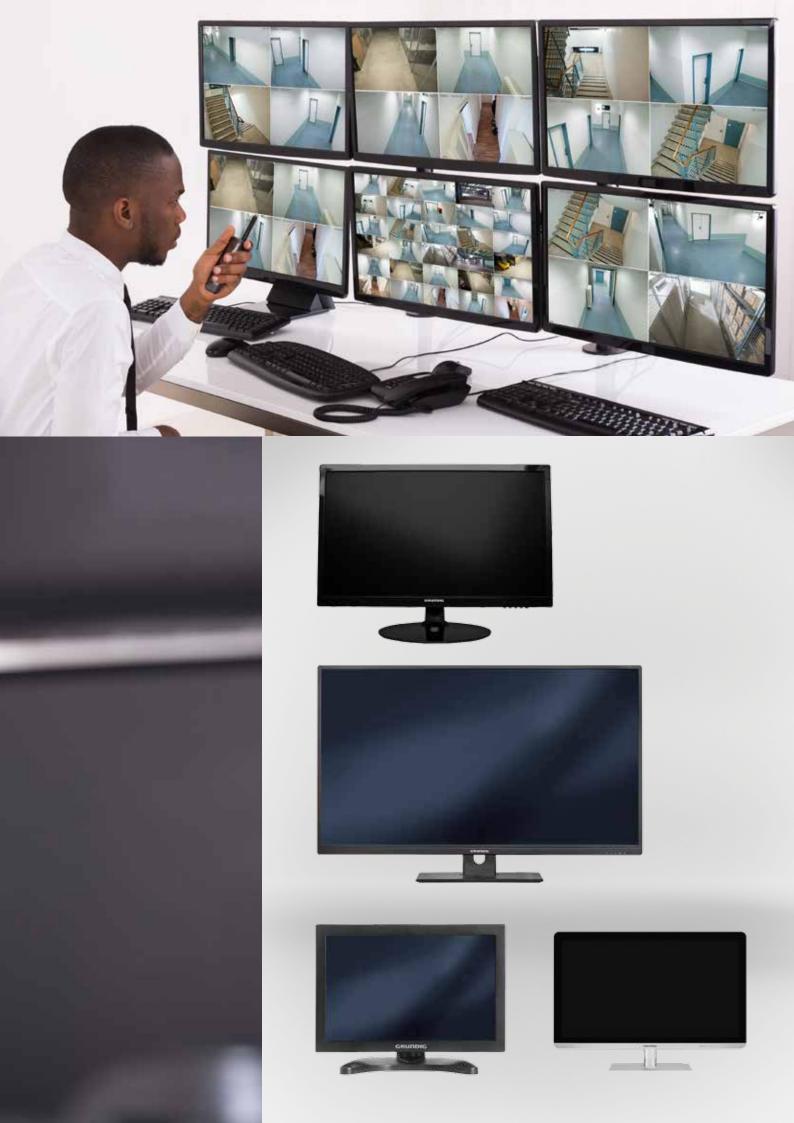


Image Sensor:	1/3" CMOS 4.0 Megapixel
Pixels - Total:	2688(H) x 1520 (V)
Sensitivity B/W:	0 Lux LED IR on
S/N Ratio:	32.3 dB (AGC Off)
Col/B:	On/Off/Auto
Lens Focal Length:	2.56 mm
Minimum Object Distance:	0.5 m
Viewing Angle:	154°
Iris F-Number:	F 2.4
Lens Drive Type:	Fixed Iris
IR LED:	8 pcs.
Max. IR Distance:	10/15 m (according to scene reflexion)
Optical Wavelength:	850 nm
Video Resolution:	Super HD (2304x1296), 1080p (1920x1080), 720p(1280x720), WVGA(848x480)
Frame Rate:	30fps@SHD, 60fps@FHD, 30fps@FHD, 60fps@HD, 30fps@HD, 30fps@WVGA
Video Compression:	H.264
Audio Compression:	ADPCM
Image Size:	2688x1512 (5376x3024,6016x3384,7680x4320 by Software upscaling)
Video Text Overlay:	15 character, 1 lines
Digital Zoom:	8x
White Balance:	ATW
DIS: Digital Image Stabilization:	yes
Access protection:	Password
Audio Inputs:	Built in Microphone
Audio Outputs:	Built-in Speaker, Phone Jack 2.5mm
SD memory:	32GB built in
Display:	2" LCD (960x480pixels)
LED Indicator:	Power, Video Recording, Photo, Voice Recording, Replay, Shut off, Intercom, Reset, Stand by
Serial Interface(s):	1x Mini HDMI, 1x Mini USB
Battery:	3200mA/h
Regulation:	CE, IP68
Operating Temperature:	-30°C ~ +55°C [working time 30 Minutes at -30°]
Operating Humidity:	15% ~ 85% non condensing
Supply Voltage:	5 VDC by USB port
Dimensions (WxHxD):	60 x 93 x 27.5 mm - 2.36 x 3.66 x 1.08 ln:
Power Consumption (W):	8
Weight:	0.18 kg - 0.4 lbs

#### **ACCESSORIES**

GBW-GPS





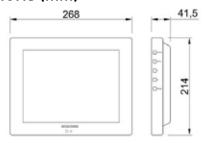


# 25.6 cm (10.1) LCD/TFT-Monitor LED backlight

- Displays a full, flat 10.4" (26cm) diagonal image
- High Contrast Ratio
- 1 CVBS looped, 1 VGA video inputs
- Metal cabinet
- Tempered glass







LCD Panel size:	10" Diagonal LED Backlight
Pixels - Total:	800(H) x 600(V)
Pixel Pitch:	0.264 mm(H) x 0.264 mm(V)
Aspect Ratio:	4:3
Video Standard:	PAL/NTSC
Video Inputs:	1 CH Composite, BNC, Looped, 1x VGA
Viewing Angle:	140°(H) ~ 110°(V)
Contrast ratio:	300:1
Brightness:	350 cd/m²
Response Time:	8 ms
Number of Colours:	16.7 million
Display protection:	Tempered Glass
Display Mode:	AV (BNC), VGA
OSD:	Yes, multi language
Operating Temperature:	0°C ~ +50°C
Storage Temperature:	-20°C ~ +60°C
Accessories included:	Table stand bracket & PSU & VGA cable
MTBF at 25° C:	> 30,000 hours
Vesa Mount:	75 x 75 mm
Supply Voltage:	12 VDC, (100~240 VAC, 50/60Hz)
Dimensions (WxHxD):	268 x 214 x 41.5 mm - 10.55 x 8.43 x 1.63 ln:
Power Consumption (W):	8
Weight:	1.71 kg - 3.77 lbs





# 25.6 cm (10.1) LCD/TFT Monitor LED backlight 4:3

- Displays a full, flat 10.1" (25.6cm) diagonal image
- High Contrast Ratio

**GML-1032M** 

- Metal cabinet
- Tempered glass
- USB interface









# DIMENSIONS (mm)



# **PLUGS**



LCD Panel size:	10" Diagonal LED Backlight
Pixels - Total:	800(H) x 600(V)
Pixel Pitch:	0.264 mm(H) x 0.264 mm(V)
Aspect Ratio:	4:3
Video Standard:	PAL/NTSC
Video Inputs:	1x Composite, BNC, 1x HDMI, 1x S-Video, 1x VGA
Backlight:	LED backlight
Viewing Angle:	90°(H) ~ 110°(V)
Contrast ratio:	500:1
Brightness:	300 cd/m²
Response Time:	8 ms
Number of Colours:	16.7 million
Display protection:	Tempered Glass
OSD:	Yes, multi language
Serial Interface(s):	USB
Operating Temperature:	0°C ~ +65°C
Storage Temperature:	-20°C ~ +60°C
Accessories included:	Table stand bracket & PSU & VGA cable
MTBF at 25° C:	> 50,000 hours
Vesa Mount:	75 x 75 mm
Supply Voltage:	12 VDC, (100~240 VAC, 50/60Hz)
Dimensions (WxHxD):	241 x 192 x 35 mm - 9.49 x 7.56 x 1.38 ln:
Power Consumption (W):	13
Weight:	1.71 kg - 3.77 lbs

# **GML-1033M**



# 25.6 cm (10.1) LCD/TFT Monitor LED backlight 16:9

- Displays a full, flat 10.1" (25.6cm) diagonal image
- High Contrast Ratio
- Metal cabinet
- Tempered glass
- USB interface

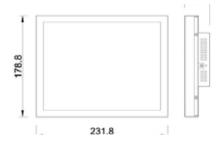








# DIMENSIONS (mm)



#### **PLUGS**



LCD Panel size:	10" Diagonal LED Backlight
Pixels - Total:	1280 (H) x 800 (V)
Pixel Pitch:	0.1695 mm(H) x 0.1695 mm(V)
Aspect Ratio:	16 : 10
Video Standard:	PAL/NTSC
Video Inputs:	1x Composite, BNC, 1x HDMI, 1x S-Video, 1x VGA
Backlight:	LED backlight
Viewing Angle:	176°(H) ~ 176°(V)
Contrast ratio:	500:1
Brightness:	400 cd/m²
Response Time:	8 ms
Number of Colours:	16.7 million
Display protection:	Tempered Glass
OSD:	Yes, multi language
Serial Interface(s):	USB
Operating Temperature:	0°C ~ +50°C
Storage Temperature:	-20°C ~ +60°C
Accessories included:	Table stand bracket & PSU & VGA cable
MTBF at 25° C:	> 50,000 hours
Vesa Mount:	75 x 75 mm
Supply Voltage:	12 VDC, (100~240 VAC, 50/60Hz)
Dimensions (WxHxD):	231 x 178 x 50 mm - 9.09 x 7.01 x 1.97 ln:
Power Consumption (W):	8
Weight:	1.71 kg - 3.77 lbs



#### 43cm (17) LCD/TFT Monitor LED Backlight

- Displays a full, flat 17"(43cm) diagonal image
- LED Backpanel illumination

**GML-1730M** 

- Energy-saving (green technology)
- 2 CVBS looped, 1 HDMI, VGA video inputs
- Scratch protection glass with anti-reflection coating















LCD Panel size:	17" Diagonal AM-TFT LED Backlight
Pixels - Total:	1280(H) x 1024(V)
Pixel Pitch:	0.264 mm(H) x 0.264 mm(V)
Aspect Ratio:	5 : 4
Video Standard:	PAL/NTSC
Video Inputs:	1x VGA, 1x HDMI, 2 CH Composite, BNC, Looped
Audio Inputs:	3 CH (1xHDMI, 1xCinch (L/R), 1xTRS Connector)
Brightness:	300 cd/m²
Contrast ratio:	10.000:1
Number of Colours:	16.7 million
Viewing Angle:	170°(H) ~ 160°(V)
Response Time:	5 ms
Display protection:	Tempered Glass
Speaker Output:	3W (2x1.5W built-in)
PIP:	On/Off
PBP:	On/Off
MTBF at 25° C:	> 100,000 hours
Operating Temperature:	0°C ~ +40°C
Humidity:	10 ~ 90% no condensation
Storage Temperature:	-10°C ~ +60°C
Suitable for:	VESA 75
Supply Voltage:	12 VDC, (100~240 VAC, 50/60Hz)
Dimensions (WxHxD):	385 x 384 x 165 mm - 15.16 x 15.12 x 6.5 ln:
Power Consumption (W):	15
Weight:	3.4 kg - 7.5 lbs



# 48 cm (19) LCD/TFT Monitor LED Backlight

- Displays a full, flat 19" (48cm) diagonal image
- LED Backpanel illumination
- Energy-saving (green technology)
- 2x CVBS (1x looped), 1x HDMI, 1x VGA video inputs
- Scratch protection glass with anti-reflection coating
- Designed for professional 24/7 usage

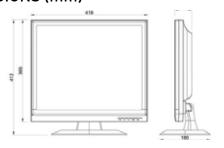












LCD Panel size:	19" Diagonal AM-TFT LED Backlight
Pixels - Total:	1280(H) x 1024(V)
Pixel Pitch:	0.294 mm(H) x 0.294 mm(V)
Aspect Ratio:	5 : 4
Video Standard:	PAL/NTSC
Video Inputs:	1 CH Composite, BNC, Looped, 1x Composite, BNC, 1x VGA, 1x HDMI
Audio Inputs:	2 CH (1xHDMI, 1xMiniJack Connector)
Audio Outputs:	1x 3.5mm jack
Brightness:	250 cd/m²
Contrast ratio:	1000:1
Number of Colours:	16.7 million
Viewing Angle:	170°(H) ~ 160°(V)
Response Time:	5 ms
Display protection:	Tempered acryl glass with anti-reflection coating
Speaker Output:	6W (2x3W built-in)
MTBF at 25° C:	> 50,000 hours
Humidity:	10 ~ 90% no condensation
Operating Temperature:	0°C ~ +40°C
Storage Temperature:	-10°C ~ +60°C
Vesa Mount:	100 x 100 mm
Supply Voltage:	100 ~ 240 Vac, 50/60Hz
Dimensions (WxHxD):	418.4 x 412.1 x 180 mm - 16.47 x 16.22 x 7.09 In:
Power Consumption (W):	30
Weight:	4.7 kg - 10.36 lbs





# 50 cm (19.5) LCD/TFT Monitor LED Backlight

- Full-HD TFT-LCD monitor
- Displays a full, flat 19.53" (50 cm) diagonal image
- LED Backpanel illumination
- 1 HDMI, 1 VGA Input
- External Power Supply
- Built-in Speaker

**GML-2010E** 

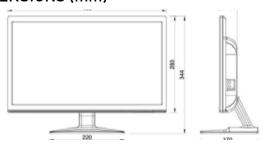
• Designed for professional 24/7 usage











LCD Panel size:	19.53" Diagonal AM-TFT LED Backlight
Pixels - Total:	1920(H) x 1080(V)
Pixel Pitch:	0.2265 mm(H) x 0.221 mm(V)
Aspect Ratio:	16 : 9
Video Inputs:	1x HDMI 1x VGA
Audio Inputs:	2 CH (1xHDMI, 1xMiniJack Connector)
Brightness:	250 cd/m²
Contrast ratio:	1000:1
Number of Colours:	16.7 million
Viewing Angle:	178°(H) ~ 178°(V)
Response Time:	12 ms
Speaker Output:	2 x 2W
Vesa Mount:	100 x 100 mm
OSD:	Yes, multi language
MTBF at 25° C:	> 50,000 hours
Operating Temperature:	0°C ~ +40°C
Humidity:	10 ~ 90% no condensation
Storage Temperature:	-20°C ~ +50°C
Certifications:	CE, FCC, RoHS
Supply Voltage:	100 ~ 240 Vac, 50/60Hz, 12 VDC, (100~240 VAC, 50/60Hz)
Operating Humidity:	10% ~ 90%, non-condensing
Dimensions (WxHxD):	465 x 340 x 51.5 mm - 18.31 x 13.39 x 2.03 ln:
Power Consumption (W):	20
Weight:	2.5 kg - 5.51 lbs



# 54.6 cm (21.5) LCD/TFT Monitor LED Backlight

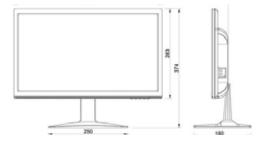
- Full-HD TFT-LCD monitor
- Designed for professional 24/7 usage
- Displays a full, flat 21,5" (54.6 cm) diagonal image
- LED Backpanel illumination
- 1 HDMI, 1 VGA Input
- Built-in Speaker











LCD Panel size:	21,5" Diagonal TFT-LCD LED Backlight
Pixels - Total:	1920(H) x 1080(V)
Pixel Pitch:	0.248 mm(H) x 0.248 mm(V)
Aspect Ratio:	16 : 9
Video Inputs:	1x HDMI, 1x VGA
Brightness:	300 cd/m <sup>2</sup>
Contrast ratio:	1000:1
Number of Colours:	16.7 million
Viewing Angle:	170°(H) ~ 160°(V)
Response Time:	5 ms
Audio Inputs:	2 CH (1xHDMI, 1xMiniJack Connector)
Speaker Output:	2 x 2W
Vesa Mount:	100 x 100 mm
OSD:	Yes, multi language
MTBF at 25° C:	> 50,000 hours
Operating Temperature:	0°C ~ +40°C
Humidity:	10 ~ 90% no condensation
Storage Temperature:	-20°C ~ +50°C
Certifications:	CE, FCC, RoHS
Supply Voltage:	100 ~ 240 Vac, 50/60Hz
Operating Humidity:	10% ~ 90%, non-condensing
Dimensions ( W x H x D):	510 x 371 x 51.5 mm - 20.08 x 14.61 x 2.03 ln:
Power Consumption (W):	25
Weight:	3.5 kg - 7.72 lbs



# 54.6 cm (21.5) LCD/TFT Monitor LED Backlight

• Full-HD TFT-LCD monitor

**GML-2231M** 

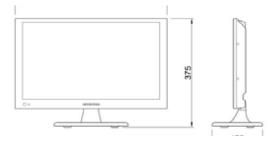
- Displays a full, flat 21,5" (54.6 cm) diagonal image
- LED Backpanel illumination
- Scratch protection glass with anti-reflection coating
- Energy-saving (green technology)
- 1 CVBS looped, 2 HDMI, VGA video inputs
- Designed for professional 24/7 usage











LCD Panel size:	21,5" Diagonal AM-TFT LED Backlight
Pixels - Total:	1920(H) x 1080(V)
Pixel Pitch:	0.248 mm(H) x 0.248 mm(V)
Aspect Ratio:	16 : 9
Video Standard:	PAL/NTSC
Video Inputs:	1 CH Composite BNC Looped, 2x HDMI, 1 VGA input
	4 CH (2xHDMI, 1xCinch (L/R), 1xTRS
Audio Inputs:	Connector)
Brightness:	300 cd/m <sup>2</sup>
Contrast ratio:	10.000:1
Number of Colours:	16.7 million
Viewing Angle:	160°(H) ~ 170°(V)
Response Time:	5 ms
·	Tempered acryl glass with anti-reflection
Display protection:	coating
Speaker Output:	3W (2x1.5W built-in)
OSD:	Yes, multi language
PIP:	On/Off
PBP:	On/Off
MTBF at 25° C:	> 100,000 hours
Operating Temperature:	0°C ~ +40°C
Humidity:	10 ~ 90% no condensation
Storage Temperature:	-10°C ~ +60°C
Suitable for:	VESA 100
Supply Voltage:	12 VDC, (100~240 VAC, 50/60Hz)
Operating Humidity:	10% ~ 90%, non-condensing
Dimensions (WxHxD):	524 x 375 x 175 mm - 20.63 x 14.76 x 6.89 ln:
Dower Consumption (M)	
Power Consumption (W):	25
Weight:	3.6 kg - 7.94 lbs



#### 61 cm (23.6) LCD/TFT Monitor LED Backlight

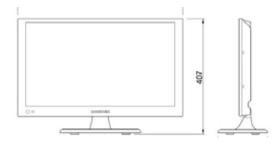
- Full-HD TFT-LCD monitor
- Displays a full, flat 23.6" (61 cm) diagonal image
- LED Backpanel illumination
- Scratch protection glass with anti-reflection coating
- Energy-saving (green technology)
- 1 CVBS looped, 2 HDMI, VGA video inputs
- Designed for professional 24/7 usage











LCD Panel size:	23,6" Diagonal AM-TFT LED Backlight
Pixels - Total:	1920(H) x 1080(V)
Pixel Pitch:	0.272 mm(H) x 0.272 mm(V)
Aspect Ratio:	16 : 9
Video Standard:	PAL/NTSC
Video Inputs:	1 CH Composite BNC Looped, 2x HDMI, 1 VGA input
Audio Inputs:	4 CH (2xHDMI, 1xCinch (L/R), 1xTRS Connector)
Brightness:	300 cd/m²
Contrast ratio:	10.000:1
Number of Colours:	16.7 million
Viewing Angle:	160°(H) ~ 160°(V)
Response Time:	5 ms
Display protection:	Tempered acryl glass with anti-reflection coating
Speaker Output:	3W (2x1.5W built-in)
OSD:	Yes, multi language
PIP:	On/Off
PBP:	On/Off
MTBF at 25° C:	> 100,000 hours
Operating Temperature:	0°C ~ +40°C
Humidity:	10 ~ 90% no condensation
Storage Temperature:	-10°C ~ +60°C
Suitable for:	VESA 100
Supply Voltage:	12 VDC, (100~240 VAC, 50/60Hz)
Operating Humidity:	10% ~ 90%, non-condensing
Dimensions (WxHxD):	580 x 407 x 175 mm - 22.83 x 16.02 x 6.89 ln:
Power Consumption (W):	30
Weight:	4 kg - 8.82 lbs





#### 71 cm (28) UHD 4K LCD/TFT Monitor LED Backlight

- Ultra High Definition (UHD) TFT-LCD monitor
- Scratch protection glass with anti-reflection coating
- Displays a full, flat 23" (58.4 cm) diagonal image
- LED Backpanel illumination
- Wide Viewing Angle

**GML-2810U** 

- Designed for professional 24/7 usage
- Energy-saving (green technology)
- Built-in Speaker



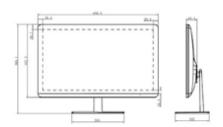








# **DIMENSIONS (mm)**



#### **PLUGS**



LCD Panel size:	28" Diagonal TFT-LCD LED Backlight
Pixels - Total:	3840(H) x 2160(V)
Pixel Pitch:	0.16 mm(H) x 0.16 mm(V)
Aspect Ratio:	16 : 9
Backlight:	LED backlight
Video Standard:	PAL/NTSC
Video Inputs:	1x Display Port, 1xDVI-D, 2xHDMI
Brightness:	300 cd/m²
Contrast ratio:	1000:1
Viewing Angle:	170°(H) ~ 160°(V)
Response Time:	Tr: 1.5ms Tf: 3.5ms
OSD:	Yes, multi language
Audio Inputs:	1x 3.5mm jack (Line), 1x HDMI
Audio Outputs:	1x 3.5mm jack
Speaker Output:	3 W
Vesa Mount:	200 x 100 mm
Operating Temperature:	0°C ~ +40°C
Operating Humidity:	10% ~ 85% non condensing
Supply Voltage:	100 ~ 240 Vac, 50/60Hz
Dimensions (WxHxD):	680 x 504.1 x 192 mm - 26.77 x 19.85 x 7.56 ln:
Power Consumption (W):	50
Weight:	7.3 kg - 16.09 lbs



# 81 cm (32) LCD/TFT Monitor LED Backlight

- Displays a full, flat 32" (81cm) diagonal image
- High Image Quality Full HD 1920 x 1080
- LED Backpanel illumination
- Wide Viewing Angle
- Designed for professional 24/7 usage
- Built-in Speaker
- VESA Wall Mount Compatible











LCD Panel size:	32" Diagonal TFT
Pixel Pitch:	0.36375 mm(H) x 0.36375 mm(V)
Aspect Ratio:	16 : 9
Refresh rate:	max. 75 Hz
Backlight:	LED backlight
Video Standard:	PAL/NTSC
Video Inputs:	1 CH Composite, BNC, Looped, 1x HDMI, 1x S-Video, 1x VGA
Brightness:	400 cd/m²
Video Resolution:	1280x720 (720p), 1920x1080 (1080i) , 1920x1080 (1080p)
Contrast ratio:	3000:1
Viewing Angle:	170°(H) ~ 160°(V)
Response Time:	6.5 ms
OSD:	Yes, multi language
Audio Inputs:	1x 3.5mm jack (Line), 1x HDMI
Audio Outputs:	1x 3.5mm jack
Speaker Output:	6W (2x3W built-in)
Serial Interface(s):	1x RS-232
Vesa Mount:	200 x 100 mm
Operating Temperature:	0°C ~ +40°C
Operating Humidity:	10% ~ 85% non condensing
Supply Voltage:	100 ~ 240 Vac, 50/60Hz
Dimensions ( W x H x D):	744 x 444 x 59 mm - 29.29 x 17.48 x 2.32 ln:
Power Consumption (W):	50
Weight:	8 kg - 17.64 lbs

#### **CONNECTIONS**







# 102 cm (40) LCD/TFT Monitor LED Backlight

- Displays a full, flat 40" (101.7cm) diagonal image
- High Image Quality Full HD 1920 x 1080
- LED Backpanel illumination
- Wide Viewing Angle
- Designed for professional 24/7 usage
- Energy-saving (green technology)
- Built-in Speaker











LCD Panel size:	40" Diagonal TFT
Pixel Pitch:	0.36375 mm(H) x 0.36375 mm(V)
Aspect Ratio:	16 : 9
Refresh rate:	max. 75 Hz
Backlight:	LED backlight
Video Standard:	PAL/NTSC
Video Inputs:	1 CH Composite, BNC, Looped, 1x HDMI, 1x S-Video, 1x VGA
Brightness:	400 cd/m <sup>2</sup>
Video Resolution:	1280x720 (720p), 1920x1080 (1080i) , 1920x1080 (1080p)
Contrast ratio:	3000:1
Viewing Angle:	170°(H) ~ 160°(V)
Response Time:	6.5 ms
OSD:	Yes, multi language
Audio Inputs:	1x 3.5mm jack (Line), 1x HDMI
Audio Outputs:	1x 3.5mm jack
Speaker Output:	6W (2x3W built-in)
Vesa Mount:	200 x 100 mm
Operating Temperature:	0°C ~ +40°C
Storage Temperature:	-20°C ~ +60°C
Operating Humidity:	10% ~ 85% non condensing
Supply Voltage:	100 ~ 240 Vac, 50/60Hz
Dimensions (WxHxD):	905 x 529 x 61 mm - 35.63 x 20.83 x 2.4 ln:
Power Consumption (W):	65
Weight:	12.5 kg - 27.56 lbs

#### **CONNECTIONS**





#### **CONNECTING EVERYTHING**

Grundig supports its entire product portfolio with a comprehensive range of accessories. We understand that no two applications are alike and that each one has its own specific requirements.

We have ensured that all our products are supported by practical accessories so cameras can be installed in optimal position in every location.





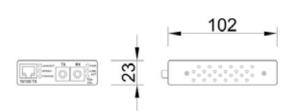
# **TRANSMISSION**

# GTI-F1026F



#### 10/100BaseTX FX Media Converter MM ST

- 1 x 10/100 BaseTX Ethernet TP Port and 1 x 100BaseFX Ethernet Fiber Port
- Fiber Port can support Multimode wire with ST connector
- Full- and Half-Duplex selection on FX Port over a slide switch
- Providing 19" Converter Chassis for up to 16 slots with redundant power supply for optional expansion use
- Metal housing against vandalism



Network Standards:	IEEE 802.3,IEEE 802.3u
	1 x 10/100BaseT with RJ45 Connector, 1 x
Interfaces:	100BaseFX with Multi Mode, ST Fiber
	connector
Wavelength:	850nm / 1310nm
Transmitter Output Power:	-20 ~ -14 dBm
Receiver Sensitivity:	max31 dBm
Power Budget:	11 dBm
	Ethernet: 10Mbps/Half-Duplex,
Data Transfer Rate:	20Mbps/Full-Duplex, Fast Ethernet:
	100Mbps/Half-Duplex, 200Mbps/Full-Duplex
Transmission Media:	100BaseTX Cat. 5/5e/6 UTP/STP, up to 100m
LED Indicators:	Power, Link up/Activity (TX and FX port), Full
	Duplex/Collision (TX and FX port), 10/100Mb/s
Supply Voltage:	5 VDC
Operating Temperature:	0°C ~ +60°C
Storage Temperature:	-20°C ~ +90°C
Humidity:	10 ~ 90% no condensation
Regulation:	CE, RoHS Compliant
Dimensions (WxHxD):	74 x 22 x 102 mm - 2.91 x 0.87 x 4.02 ln:
Power Consumption (W):	10
Weight:	0.23 kg - 0.51 lbs



#### LAN & Power over Ethernet Extender

- IEEE 802.3i, IEEE 802.3u, IEEE 802.ab, IEEE 802.3x, IEE 802.3at
- No extra power requierd
- need around 2W per extension
- Metal housing against vandalism

Network Standards:	IEEE 802.3, IEEE 802.3at, IEEE 802.3u , IEEE 802.3x, IEEE 802.ab
Interfaces:	1 x PD (Data + Power in), 1 x PSE (Data+Power out)
Filtering/Forwarding Rate:	10Mbps: 14,880 packets / sec 100Mbps: 148,800 packets / sec 1000Mbps: 1,488,000 packets / sec
Transmission Media:	100BaseTX Cat. 5/5e/6 UTP/STP, up to 100m
LED Indicators:	Power and PD Link
Supply Voltage:	PoE/PoE+ (IEEE 802.3af/at)
Operating Temperature:	-5°C ~ +45°C
Storage Temperature:	-20°C ~ +85°C
Humidity:	10 ~ 90%RH
Certifications:	CE, RoHS
Dimensions (WxHxD):	32 x 20 x 123 mm - 1.26 x 0.79 x 4.84 ln:
Power Consumption (W):	2
Weight:	0.1 kg - 0.22 lbs

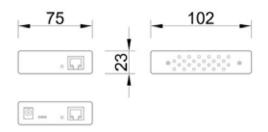
#### **GAX-P9830A**



# High Power Gigabit Ethernet Injector IEEE802.at (HiPOE)

- 1 x Data input port compliant with IEEE 802.3 10BaseT, IEEE802.3u 100BaseTX and IEEE 802.3ab 1000BaseT
- 1 x PSE/PoE+ output port compliant with IEEE 802.3af PoE and IEEE802.3at PoE+
- Supporting the power Max. 30 W for PSE/PoE+ port
- Output port has output current limited, short-circuit protection, complete Power Device (PD) detection and classification
- Smart plug & play
- Metal housing against vandalism
- 1x PSE/PoE+ output port compliant with IEEE 802.3af PoE and IEEE802.3at PoE+

Network Standards:	IEEE 802.af, IEEE 802.at, IEEE 802.3, IEEE 802.3u,IEEE 802.3ab
Interfaces:	1 x RJ45 Data input, 1 x RJ45 Data + Power output
LED Indicators:	Power and PD Link
Supply Voltage:	48 Vdc
Power Output:	48 VDC / 30 W
Operating Temperature:	0°C ~ +45°C
Storage Temperature:	-20°C ~ +85°C
Humidity:	10 ~ 90% no condensation
Certifications:	FCC Class A, CE
Regulation:	CE, RoHS Compliant
Operating Humidity:	10% ~ 90%, non-condensing
Dimensions ( W x H x D):	75 x 23 x 102 mm - 2.95 x 0.91 x 4.02 ln:
Power Consumption (W):	35
Weight:	0.19 kg - 0.42 lbs





# Powerline Adapter 500Mbps with PoE

- Automatic Setup & Configuration
- IP transmission over Powerline
- Secure communication
- PoE 802.3af

Network Interface:	1x 10/100/1000 Base T/TX (RJ-45)
LED Indicators:	Power, PLC Link, ACT, Lan, PoE
Network Standards:	IEEE 1901, IEEE 802.3,IEEE 802.3u, IEEE802.3af
Encryption:	128-AES data encryption
Data Transfer Rate:	500Mbps (effective UDP: 100Mbps, TCP: 90Mbps)
Bandwidth:	2 MHz- 68 MHz
Modulation:	Orthogonal Frequency Division Multiplexing (OFDM)
PoE Budget:	15.4 W
Operating Temperature:	0°C ~ +55°C
Storage Temperature:	-10°C ~ +60°C
Humidity:	10 ~ 90% no condensation
Regulation:	CE, RoHS Compliant
Supply Voltage:	110 ~ 240 Vac, 50/60Hz
Dimensions (WxHxD):	67 x 96.5 x 23 mm - 2.64 x 3.8 x 0.91 ln:
Weight:	0.3 kg - 0.66 lbs

**IP CAMERAS** 

# OUR QUALITY IS A PROMISE.



# TERMS OF DELIVERY

Orders are only accepted subject to the Trading Conditions of ASP AG (Grundig Security, hereinafter called the "Supplier"). Purchasers of Supplier goods will, on accepting delivery, be deemed to have agreed that any printed conditions on their order or other documents shall only be binding where they are not at variance with these terms and conditions. Any buyer who objects to these terms below must, prior to delivery of goods, inform the Supplier of the objections in writing whereupon the order shall be deemed to be cancelled unless any proposed variation is accepted in writing by a Director of the Supplier.

- 1. PRICES. Prices charged for orders will, unless otherwise specified, be those ruling at the date of acceptance of that order. Quantity rates may apply once to each individual order and each delivery. Orders and deliveries may not be aggregated to obtain quantity rates. Prices quoted are exclusive of Value Added Tax. All prices quoted and charged are subject to payment being made within these terms. In the event of payment being overdue by 30 days or more then such prices are liable to re-calculation at the Supplier's pricing ruled in its price list current at the end of 30 days.
- 2. ORDERS. All orders shall be subject to the Purchaser being credit worthy, as determined by the Supplier. An order is only formerly accepted by the Supplier when a delivery date for the order is confirmed and communicated to the Purchaser. From time to time, upon request by the Supplier, the Purchaser shall furnish the Supplier with such financial information requested by the Supplier as will enable the Supplier to evaluate the Purchaser's financial status.
- 3. SHIPMENT. Shipment will only be made by the method of the Supplier's choice, unless otherwise agreed. Shipment will be made to any one of the Purchaser's permanent addresses. Every effort will be made to effect delivery on the delivery date communicated, or to any programme of dates agreed. However, no guarantee of delivery dates can be given and time of delivery is not of the essence of the contract. Failure to deliver on the communicated date shall not invalidate the contract or any remaining or outstanding deliveries.
- 4. PAYMENT. All monies are due to be paid not later than 30 days from the end of the month following the date of invoice, unless otherwise agreed in writing. Payments shall become immediately due upon commencement of any proceedings or any commission of any act in which the Purchaser's insolvency is involved.
- 5. TITLE TO GOODS. Until the Supplier has been paid in full for goods comprised in the order or in any other sales contract between the Supplier and the Purchaser or until title to goods is in terms relinquished to the Purchaser by the Supplier by writing under the personal hand of a / the Director of the Supplier; al The goods comprised in the order remain the Supplier's property and the Supplier reserves the right to dispose of the goods as the Supplier sees fit. bl The Supplier may repossess (and for this purpose follow or trace) the goods at any time from the Purchaser, if in his possession, if the Supplier considers the amount outstanding is in excess of the credit limit and overdue for payment. The Supplier, its servants and agents may enter the Purchaser's premises where the Supplier has reason to believe any of the goods are situated.
- c) The Purchaser as bailee undertakes to keep the goods safe and in good order and condition and clearly identified as the Supplier's property.
- d) Should the Purchaser have passed the goods or any part of them to a third party (or have incorporated them in work for a third party) this will be deemed to have been done as the Supplier's agent only and any sums received by the Purchaser in respect of such goods or such work shall be held in trust for the supplier until all sums due to the Supplier are discharged.
- e) Upon commission of any act of bankruptcy by an individual Purchaser the immediate repossession of the goods shall forthwith, automatically, revert to the Supplier.
- f) All costs (including legal fees) occasioned in the recovery of goods shall be paid by the Purchaser.
- 6. WARRANTY. A warranty applies only to the Purchaser from the Supplier and where the goods are covered by a warranty. The warranty period for goods is 3 years, except for fully functional domes and recording equipment hard drives where the warranty is 1 year. The terms of such warranty shall be deemed to be part of these conditions. The Supplier warrants all goods to be free from defects in material and workmanship under normal use, provided the products have been installed and operated in accordance with the instruction manual.

The commencement date for all warranties is the date of delivery to the Purchaser from the Supplier. The Supplier makes no other warranty, express or implicit, with respect to the goods, their marketability, quality or fitness for any particular use or purpose. In particular, but without prejudice, to the general provisions of these conditions no responsibility is assumed for incidental or consequential damage by reason of any warranty expressed or implied.

- 7. CLAIMS. Claims may be made subject to the Purchaser;
- a) Examining the goods on their delivery for any obvious damage or shortage and reporting any damage or short delivery in writing to the Supplier and the carrier within five days of the delivery date.
- within five days of the delivery date.
  b) Reporting non-delivery by telephone (and confirmed in writing) to the Supplierwithin 10 days of the invoice date or expected delivery date. If the Purchaser fails
  to give notice or to report in accordance with these terms or shall deal with goods
  in any manner or if there shall be any conduct by the Purchaser inconsistent with
  rejection of the Goods, then the Goods of the quality specified in the contract shall
  be deemed to have been delivered to the Purchaser. No claim or rejection, properly
  made pursuant to these Conditions of Supply in respect of any part delivery of
  Goods shall be a ground for cancellation of the contract or order.

- 8. RETURNS. Returns for credit are only permitted after the Supplier has provided
- a Returns Authorisation (RA) number. Such returns must be sent to the Supplier with freight paid in an unused condition. A re-stocking charge of up to 15% will
- applied to all returns. A higher rate may apply if the return requires re-packaging

Returns on products over 3 years old will not be accepted. No software on which seals have been broken can be returned for credit. Please note Software Licenses are non-returnable.

- 9. RIGHT OF CANCELLATION. Rights of cancellation of the Supplier will become operable if the Purchaser should fail to meet his obligations as they fall due for any reason or if any distress or execution shall be levied upon the Purchaser's property or if the Purchaser shall commit an act of bankruptcy or being a limited company any resolution or petition to wind up its business shall be passed or presented (excepting winding-up for the purposes of reconstruction) or if a receiver of such company's undertaking property or assets shall be reimbursed for any fair and reasonable costs occasioned due to such cancellation.
- 10. LIABILITY. The Supplier shall under no circumstances be liable for any consequential or indirect damage or loss, however caused, including (but not restricted to) loss of profits, loss of goodwill, damage to trading relationships and

financial loss. The Supplier's liability in respect of all other losses shall be limited

to the invoiced value of the relevant order.

- 11. FORCE MAJEURE. The Supplier shall not be responsible or liable for its failure
- to perform it obligations, if such failure is beyond the control of the Supplier, whether caused by acts of God, unavailability or shortages of materials or energy

necessary to produce and/or deliver goods by usual modes of transportation, fire,

flood, war, embargo, strikes, labour disputes, explosions, riots, of Laws, rule regulations, restrictions or orders of any Governmental authority, or any other cause, other than financial, beyond the control of the Supplier and its suppliers.

- 12. RELATIONSHIPS. Relationship is that of the Supplier and Purchaser, and neither the Supplier or the Purchaser nor any of their employees, customers or agents shall be deemed to be the representative, agent or employee of the other for any purpose whatsoever, nor shall any of them have any right or authority to assume or create an obligation of any kind or nature, express or implied, on behalf of the other, nor to accept service of any legal process addressed to or intended for the other, not to pledge the other's credit. The Purchaser warrants and represents that there is no legal impediment preventing acceptance of these terms and conditions of supply and that the acceptance of these has been duly authorised and that the obligations do not conflict with or violate any terms or conditions of any other agreement or commitment by the Purchaser.
- 13. ARBITRATION. These Terms & Conditions are governed by German law. Any dispute not settled by the parties shall be submitted to arbitration at the Düsseldorf Chamber of Commerce in Germany and shall be settled according to the laws of Germany.
- 14. ADVANCED REPLACEMENTS AND REPAIRS. Advanced replacements only apply on products which are no older than 3 months of the invoice date. Repairs only apply on products which are no older than their warranty period of 1 or 3 years.
- 15. ERRORS AND OMISSIONS. The Supplier makes every effort to ensure that all prices and descriptions quoted in printed form and on its website are correct and accurate. In the case of an error or omission, the Supplier will be entitled to rescind the contract, notwithstanding that he has already accepted the Purchasers.

order, and the Supplier's liability in that event will be limited to the return of any money the Purchaser has paid in respect of that order.