

SPECTROPHOTOMETER CF-300





Capable of measuring small target areas

- Capable of measuring targets as small as <u>0.75×1 mm</u>, the CF-300 can be used to measure the color of watch screws, small parts for smartphones and game consoles, etc.
- The view pointer makes it easy to identify the measurement area, effectively reducing the likelihood of measurement errors.



• Measuring colors of small target areas such as watch dial faces and bands, smartphone parts, eyeglass frames, fasteners, buttons, fountain pens, etc.



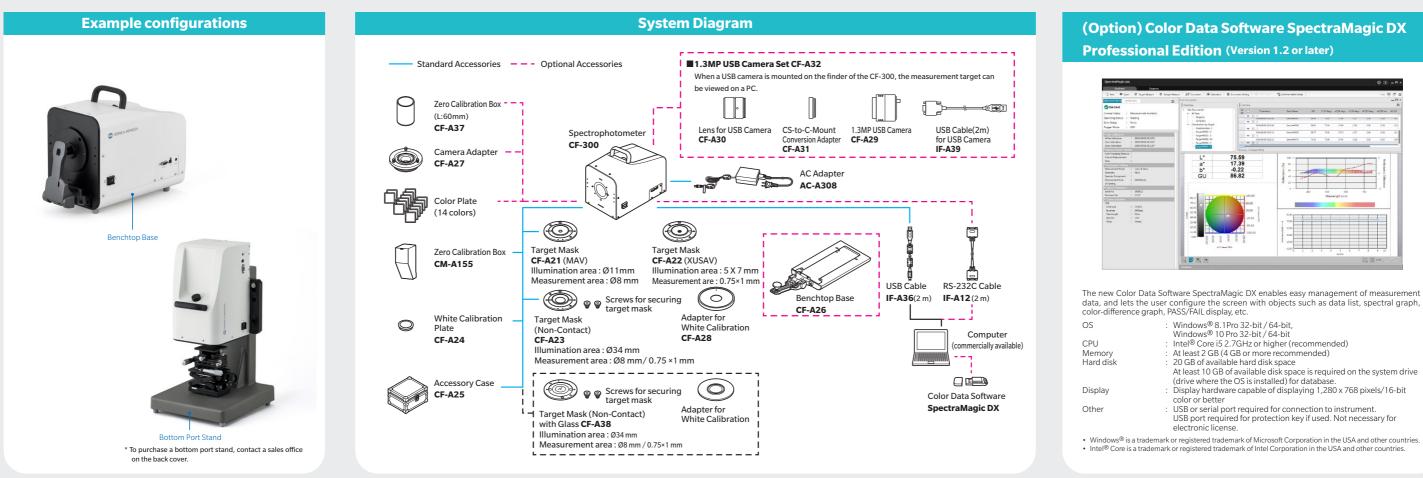
Non-contact measurement

- The CF-300 employs an integrating sphere that allows colorimetric measurements to be conducted at a distance of 1 mm from the target object.
- Integrating-sphere-based measurements makes the CF-300 interchangeable with general spectrophotometers.

<Benefits>

• Measuring colors of cosmetics such as lipstick or foundation, paints or other targets that could stain the instrument during contact measurements.





High-speed measurement

Requiring only about 0.1 sec per measurement and capable of continuous measurement at a minimum interval of about 0.2 sec, the CF-300 can perform 5 measurements per second*.

* For high-speed measurement use, the software must be customized to the customer's line conditions.

<Benefits>

• Improving efficiency of quality control via high-speed non-contact measurements on production lines.

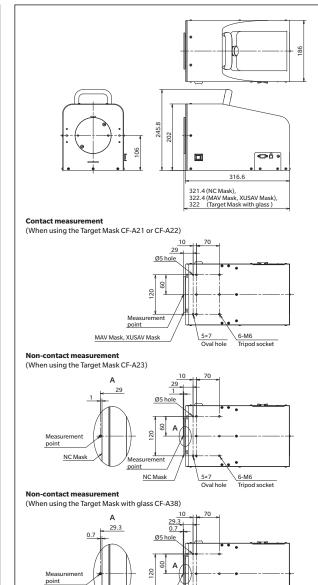


- At least 10 GB of available disk space is required on the system drive (drive where the OS is installed) for database.

Specifications

	Spectrophotometer CF-300									
	di:8°, de:8° (diffuse illumination: 8° viewing)									
Illumination/ viewingsystem	SCI (specular component included)/SCE (specular component excluded) switchable									
	Conforms to JIS Z 8722 condition c, ISO 7724/1									
Integrating sphere size	ø152 mm									
Detector	Dual 40-element silicon photodiode arrays									
Spectral separation device	Planar diffraction grating									
Wavelength range	400 to 700 nm									
Wavelength pitch	10 nm									
Measurement range	0 to 175%; Output/display resolution: 0.01%									
Light source	High-Cl	RI white LED								
Illumination area		ø11 mm	VUCAV	5×7 mm	NC/NC with glass	ø34 mm				
Measurement area	MAV	ø8 mm	XUSAV	0.75×1 mm	(Non-contact measurement)	ø8 mm	0.75×1 mm			
Measurement distance	Contact measurements (MAV/XUSAV target mask): 0.0 mm Non-contact measurements (NC target mask): 1.0 mm Non-contact measurement(NC target mask with glass):0.7 mm									
Measurement time	Approx. 0.1 seconds									
Minimum measurement interval	Approx. 0.2 seconds									
Repeatability	Chromaticity value: Standard deviation within E*ab 0.02 (When MAV/SCI contact measurements of a white calibration plate are taken 30 times at 1-second intervals after white calibration)									
Inter-instrument agreement	Within E*ab 0.15 (Based on MAV/SCI contact measurements of 12 BCRA Series II color tiles compared to values measured with a master body under Konica Minolta standard conditions)									
Interface	USB 2.0, RS-232C									
Power	Dedicat	ed AC adapte	r (AC 100	to 240 V, 50/60	Hz)					
Operation temperature/ humidity range	15 to 30°C, relative humidity is 80% or less (at 30°C) with no condensation									
Storage temperature/ humidity range	0 to 40°C, relative humidity is 80% or less (at 35°C) with no condensation									
Size (W×H×D)	Approx. 186 × 202 × 317 mm (Including handle height: 246 mm)									
Weight	Approx. 7.3 kg									
Measurement items*	Various color systems, indices and color-difference formulas are displayed in the windows of the separately sold SpectraMagic DX color management software.									

Dimensions (Units:mm)



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5×7

/al hole

Displays shown are for illustration purpose only.

Target Mask with Glass

• The specifications and appearance shown herein are subject to change without notice.

* For details about measurement items (color systems, indices and color-difference formulas), see the user's guide of the separately sold SpectraMagic DX color management software.



point

NC Mask

150 Certifications of KONICA M	INOLIA, IIIC., Sakai Sile
ISO 9001	ISO 14001
JQA-QMA15888 Design, development, manufacture/ manufacturing management. calibration. and	JQA-E-80027 Design, development, manufacture, service and sales
service of measuring instruments	of measuring instruments

6-M6 Tripod socket

KONICA MINOLTA, INC.	Osaka, Japan					
Konica Minolta Sensing Americas, Inc.	New Jersey, U.S.A.	PHONE: (888)473-2656 (in USA), +1	(201)236-43	00 (outside USA) FAX: +1	(201)785-2	2480 E-Mail: service.sus@konicaminolta.com
Konica Minolta Sensing Europe B.V.	European HQ/ BENELUX German Office French Office UK Office Italian Office Swiss Office Nordic Office Polish Office Turkish Office	Nieuwegein, Netherlands München, Germany Roissy CDG Cedex, France Warrington, United Kingdom Cinisello Balsamo, Italy Dietikon, Switzerland VÄSTRA FRÖLUNDA, Sweden Wrocław, Poland Istanblul, Turkey	PHONE: PHONE: PHONE: PHONE: PHONE: PHONE: PHONE: PHONE: PHONE:	+31(0)30 248-1193 +49(0)89 4357 156 0 +33(0)180 11 10 70 +44(0)1925 467300 +39 02849488.00 +41(0)43 322-9800 +46(0)31 7099464 +48(0)71 73452-11 +90(0)216-528 56 56	E-Mail: E-Mail: E-Mail: E-Mail: E-Mail: E-Mail: E-Mail: E-Mail: E-Mail:	info.benelux@seu.konicaminolta.eu info.germany@seu.konicaminolta.eu info.france@seu.konicaminolta.eu info.uk@seu.konicaminolta.eu info.utaly@seu.konicaminolta.eu info.nordic@seu.konicaminolta.eu info.poland@seu.konicaminolta.eu info.sening@konicaminolta.eu
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Konica Minolta Sensing Singapore Pte. Ltd.	Singapore		PHONE:	+65 6563-5533	E-Mail:	se-service.sg@konicaminolta.com
Konica Minolta Sensing Korea Co., Ltd.	Korean HQ / Kintex Cheonan Office	Goyang-si, Korea Cheonan-si, Korea	PHONE: PHONE:	+82(0)2-523-9726 +82(0)41-556-9726	FAX:	+82(0)31-995-6511

Addresses and telephone/fax numbers and e-mail address are subject to change without notice. For the latest contact information, please refer to KONICA MINOLTA Worldwide Offices web page: