



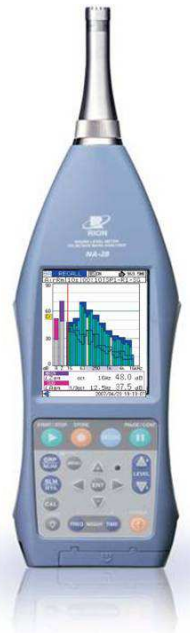
« Le sonomètre à toutes
épreuves dans une ergonomie
très moderne ... »

Sonomètre/analyseur NA-28



Caractéristiques générales

- ↳ Sonomètre Classe 1 conforme à la norme IEC 61672-1 : 2002
- ↳ Analyseur en Octaves Classe 1 conforme à la norme IEC 61260 : 1995
- ↳ Facilité d'utilisation par accès aux principales fonctions à l'aide de touches rétro éclairées
- ↳ Ecran TFT LCD couleur aux contrastes très élevés
- ↳ Mesure et affichage des **octaves et 1/3 d'octaves en simultané**
- ↳ Basculement entre fonction sonomètre et analyseur en une touche
- ↳ **Stockage** sur carte Compact Flash haute capacité de fichiers en **format .txt**
- ↳ Transfert des données par carte CF card ou par lien USB (sonomètre ou carte CF apparaît comme un disque externe)
- ↳ **Télécommande infra rouge**
- ↳ Autonomie exceptionnelle de 16 heures avec 4 batteries Alkaline
- ↳ Evolutivité par carte programme vers l'analyse FFT, l'acoustique du bâtiment ou l'enregistrement audio



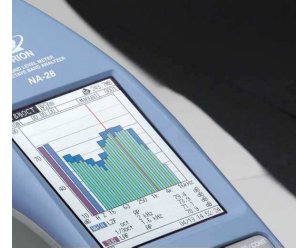
Ergonomie



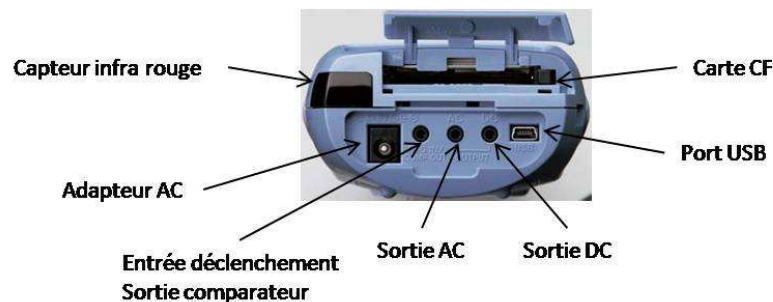


Fonctions principales

- ↳ Linéarité de 110 dB en mode sonomètre et de 95 dB en mode analyseur
- ↳ Octave (de 16 à 16 kHz) ou 1/3 Octaves (12,5Hz à 20 kHz) en temps réel
- ↳ Octaves (16Hz à 8kHz) et 1/3 Octaves (12.5Hz à 12.5kHz) en temps réel simultané
- ↳ Valeurs instantanées et profil de Leq, Lmax, Lmin et 5 valeurs Ln de pourcentile en octaves et/ou 1/3 d'octaves
- ↳ 2 mesures simultanées disponibles toutes les 10 ms, avec choix des pondérations temporelle ou fréquentielle (Slow, Fast, Peak et Impulse) toutes les 10 ms
- ↳ Octaves (16Hz to 8kHz) et 1/3 Octaves (12.5Hz to 12.5kHz) en temps réel simultané
- ↳ Sauvegardes automatiques de 300 000 valeurs instantanées ou de 1 000 heures de spectres 1/3 d'octaves toutes les secondes sur une carte CF 1 GB
- ↳ Sauvegardes au format .txt de 1 000 valeurs instantanées en mémoire interne ou de 100 000 valeurs de 1/3 d'octaves (1 s) sur une carte CF 1 GB
- ↳ Déclenchement des mesures sur évènement interne ou externe
- ↳ Sortie comparateur pour déclenchement d'actions externes
- ↳ Sorties AC ou DC des 2 voies mesurées



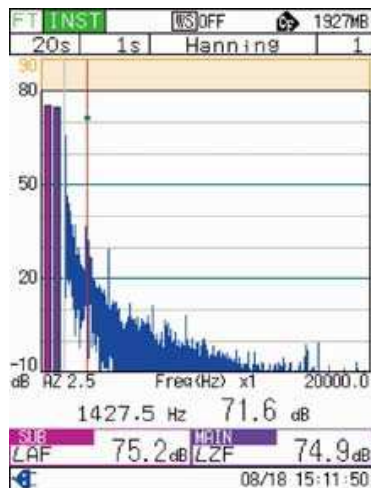
Connectiques



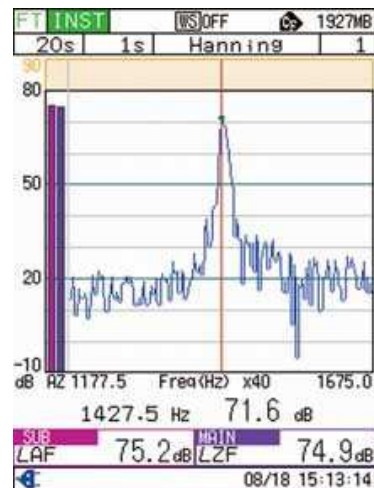


Analyse FFT

- ↳ Disponible par carte programme
- ↳ Conforme au standard ISO 1996-2: 2007
- ↳ Mesures simultanées de spectres instantanés et moyennés
- ↳ Dynamique de mesure : 100 dB
- ↳ Fréquence d'analyse (fixe) : 20 kHz
- ↳ Résolution : 8000 lignes (2,5 Hz)
- ↳ Zooms: x2, x5, x10, x20 et x40
- ↳ Fenétreage : Hanning, Rectangulaire
- ↳ Affichage : spectre, valeurs globales ou liste des 20 principaux niveaux
- ↳ Déclenchement : sur niveau interne ou externe et sur une durée donnée
- ↳ Sauvegarde directe des données sur carte CF en format .txt
- ↳ **Enregistrement possible en simultané**



Spectre large bande

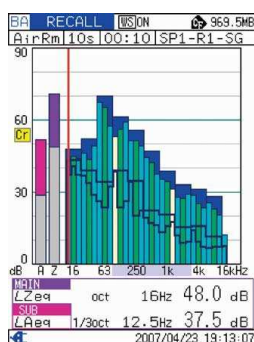


Spectre zoomé



Acoustique du bâtiment

- ↳ Disponible par carte programme
- ↳ Mesures des bruits aériens et des bruits de chocs
- ↳ **Conformité aux standards :**
 - ISO 140-4 : atténuation des bruits aériens entre pièces
 - ISO 140-5 : atténuation des bruits aériens de façades
 - ISO 140-7 : atténuation des bruits de choc par les sols
 - ISO 717-1 : atténuation des bruits aériens
 - ISO 717-2 : atténuation des bruits de choc
 - ISO 16032 : méthode de mesures en acoustique du bâtiment
- ↳ **Mesures simultanées en octaves et 1/3 d'octaves**
- ↳ Superposition des valeurs de bruit de fonds et des valeurs avec source sonore active
- ↳ Sauvegardes directes des données en format .txt
- ↳ **Enregistrement possible en simultané**
- ↳ Représentations graphiques très riches d'informations



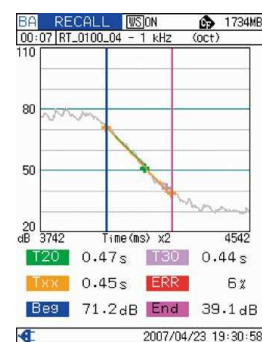
Bruit de fond superposé aux spectres d'octave et de 1/3 d'octave

BA RECALL USJON 1734MB
RT_0100_04 Print MODE

Freq. (oct)	T20	T30	Txx	Error (%)
AP	0.58	0.77	---	33
16	---	E1	---	E1
31.5	1.25	---	E1	---
63	0.95	1.03	0.99	8
125	0.50	0.89	0.74	78
250	0.64	0.60	0.60	6
500	0.61	0.60	---	2
1k	0.47	0.44	0.45	6
2k	0.48	0.44	0.45	8
4k	0.42	0.43	---	2
8k	0.38	0.41	---	8
LRc				
AP	0.53	0.54	---	2

1 / 4
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Liste tabulaire de temps de réverbération par bandes d'octave



Assistant graphique pour calcul des temps de réverbération



Enregistrement audio

- ↳ Disponible par carte programme
- ↳ **Enregistrement au format wave 16 bit non compressé jusqu'à 64 kHz**
- ↳ Pondération fréquentielle : Z (linéaire)
- ↳ Possibilité d'écoute immédiate de sons indésirables ou particuliers (avec Windows Media Player)
- ↳ **Enregistrements possible sur dépassement de niveau, sur une durée ou manuel**
- ↳ **Fonctions sonomètre et analyseur disponibles pendant l'enregistrement**
- ↳ Post traitement à l'aide de n'importe quel logiciel gérant le format wave
- ↳ Durées d'enregistrement :



		Carte 256 Mo	Carte 1 Go	Carte 2 Go
Fonctions sonomètre et octave (Ou 1/3) actives	48 kHz	30 minutes	2 heures 10 minutes	4 heures 40 minutes
	24 kHz	1 heure	4 heures 20 minutes	9 heures 20 minutes
	12 kHz	2 heures 10 minutes	8 heures 50 minutes	18 heures 50 minutes
Fonctions octave et 1/3 d octave actives		Carte 256 Mo	Carte 1 Go	Carte 2 Go
	64 kHz	20 minutes	1 heure 40 minutes	3 heures 30 minutes
	32 kHz	50 minutes	3 heures 20 minutes	7 heures
	16 kHz	1 heure 40 minutes	6 heures 40 minutes	14 heures 10 minutes



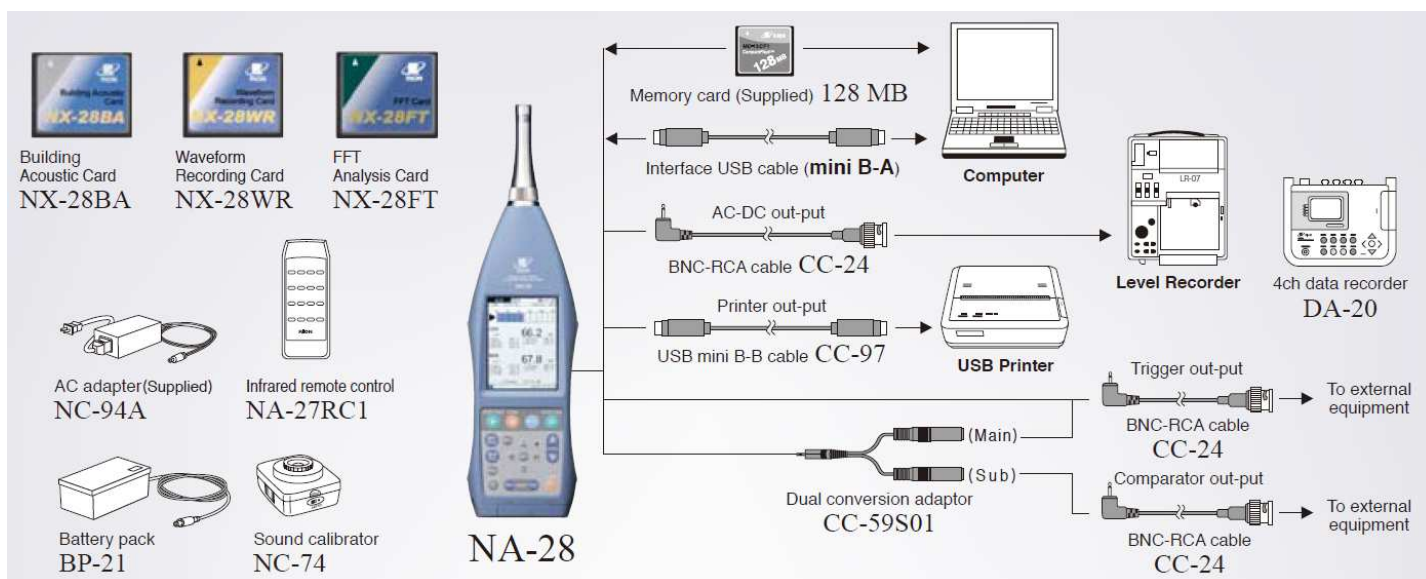
Logiciel de post traitement

- ↳ Affichage grandeurs Leq, Ln, LE
- ↳ Filtrage passe bas, passe bande et passe haut
- ↳ **Analyse FFT jusqu'à 32 768 points**
- ↳ Moyennage linéaire
- ↳ Pondérations Hanning, Rectangulaire, Flat top
- ↳ **Analyse en Octave conforme à la norme IEC 61260 Classe 1**
- ↳ Octaves : 15 bandes de 0,5 à 8 000 Hz
- ↳ 1/3 d'Octaves : 47 bandes de 0,4 à 16 000 Hz
- ↳ Temps d'intégration : 1 ms, 10 ms, 35 ms, 125 ms (fast), 630 ms, 1 s (slow) et 10 s
- ↳ Pondérations : A, C, G, Lv et Z (linéaire)





Configurations



Fourniture

Standard :

UC-59	Microphone (monté)
NH-23	Préamplificateur (monté)
WS-10	Boule anti vent
MC-12CF1	Carte Compact Flash de 128MB
CC-24	Câble de sortie AC/DC (déclenchement/comparaison)
NC-94A	Adaptateur 220 VAC / 5 V DC
	Etui de protection
	Malette de transport
5049x	Manuel d'instructions
5086x	Notes techniques
5084	Manuel d'instructions pour sortie série
	4 batteries IEC type R14P

Options :

MC-25CF1	Carte Compact Flash, 256MB
MC-10CF2	Carte Compact Flash, 1GB
MC-20CF2	Carte Compact Flash, 2GB
MC-CFADP	Adaptateur Compact Flash - PCMCIA
NC-74	Calibreur Classe 1
EC-04A	Câble d'extension, 5 m
EC-04B	Câble d'extension, 10 m
CC-24	Câble RCA/BNC
CC-59S01	Câble pour sortie double
NA-27RC1	Télécommande infrarouge
BP-21	Batterie (6 V DC) avec câble
WS-03-S01/051	Protection environnementale pour microphone avec adaptateur
NX-28WR	Carte enregistrement audio
NX-28BA	Carte acoustique du bâtiment
NX-28FT	Carte analyse FFT 20 kHz



Spécifications détaillées

Applicable specifications	Sound level meter: Measurement method precision sound level meter IEC 61672-1: 2002 Class 1 IEC 61260 : 1995 Class 1 ANSI S1.4-1983 Type 1 ANSI S1.43-1997 Type 1 ANSI S1.11-2004 Class 1 JIS C 1509-1: 2005 Class 1 JIS C 1513 : 2002 Class 1 JIS C 1514 : 2002 Class 1				
Measurement functions	With both a sound level meter mode and analyzer mode, it is capable of simultaneous main channel and sub-channel measurement in either mode. Time and frequency weighting are set separately for the main and sub-channels.				
Measurement modes	<table border="1"> <tr> <td>Sound level meter mode</td> <td>Measurement of all-pass values indicated in the measurement items below in the main or sub-channel Measurement of either L_{peak} or L_{rms} in the sub-channel</td> </tr> <tr> <td>Analyzer mode</td> <td>Real-time octave and 1/3 octave band analysis and all-pass measurement in the main channel Only all-pass measurement in the sub-channel</td> </tr> </table>	Sound level meter mode	Measurement of all-pass values indicated in the measurement items below in the main or sub-channel Measurement of either L_{peak} or L_{rms} in the sub-channel	Analyzer mode	Real-time octave and 1/3 octave band analysis and all-pass measurement in the main channel Only all-pass measurement in the sub-channel
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Measurement items	Simultaneous measurement of all items in the selected time weighting and frequency weighting characteristics 1) Instantaneous sound pressure level L_p 2) Equivalent continuous sound pressure level L_{eq} 3) Sound exposure level L_E 4) Maximum sound pressure level L_{max} APMax and BandMax can be selected as maximum 5) Minimum sound pressure level L_{min} 6) Maximum 5 time ratio sound levels L_{N1} (1 to 99 %, 1 % Step) Calculation from L_p or $L_{eq,1sec}$ One of the following is possible in the sub-channel in the sound level meter mode: Peak sound level L_{peak} Takt-max sound pressure level L_{rms} Frequency weighting characteristics are the same as sub-channel				
Measurement time	1 to 59 sec, 1 to 59 min, 1 to 24 hours				
Microphone and preamplifier	Microphone: UC-59 Sensitivity: -27 dB±2 dB (re 1 V/Pa) Preamplifier: NH-23				
Measurement range	A 25 dB to 130 dB C 33 dB to 130 dB Z 38 dB to 130 dB				
Total range (A-characteristics, 1 kHz)	25 dB to 140 dB				
Maximum peak sound level measurement	143 dB				
Inherent noise	A 17 dB or less C 25 dB or less Z 30 dB or less				
Frequency range	10 Hz to 20 kHz				
Analysis frequency range	Center frequency				
Octave analysis	16 Hz to 16 kHz (simultaneous analysis : up to 8 kHz)				
1/3 octave analysis	12.5 Hz to 20 kHz (simultaneous analysis : up to 12.5 kHz)				
Frequency weighting	A, C and Z				
Time weighting	<table border="1"> <tr> <td>Main channel</td> <td>F (Fast), S (Slow), 10 ms</td> </tr> <tr> <td>Sub-channel</td> <td>F (Fast), S (Slow), 10 ms, impulse</td> </tr> </table>	Main channel	F (Fast), S (Slow), 10 ms	Sub-channel	F (Fast), S (Slow), 10 ms, impulse
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Linear operating range	<table border="1"> <tr> <td>All-pass (A-characteristics)</td> <td>110 dB</td> </tr> <tr> <td>Spectrum</td> <td>95 dB</td> </tr> </table>	All-pass (A-characteristics)	110 dB	Spectrum	95 dB
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Level range	<table border="1"> <tr> <td>Sound level meter mode</td> <td>Bar graph display range: maximum 100 dB 30 dB to 130 dB 20 dB to 120 dB 20 dB to 110 dB 20 dB to 100 dB 20 dB to 90 dB 20 dB to 80 dB</td> </tr> <tr> <td>Analyzer mode</td> <td>Bar graph display range: 90 dB 40 dB to 130 dB 30 dB to 120 dB 20 dB to 110 dB 10 dB to 100 dB 0 dB to 90 dB -10 dB to 80 dB</td> </tr> </table>	Sound level meter mode	Bar graph display range: maximum 100 dB 30 dB to 130 dB 20 dB to 120 dB 20 dB to 110 dB 20 dB to 100 dB 20 dB to 90 dB 20 dB to 80 dB	Analyzer mode	Bar graph display range: 90 dB 40 dB to 130 dB 30 dB to 120 dB 20 dB to 110 dB 10 dB to 100 dB 0 dB to 90 dB -10 dB to 80 dB
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Sampling frequency	<table border="1"> <tr> <td>L_{eq}, L_E, L_{max}, L_{min}, L_{peak}</td> <td>15.6 μs (20.8 μs for octave, 1/3 octave simultaneous analysis)</td> </tr> <tr> <td>L_N</td> <td>100 ms</td> </tr> </table>	L_{eq} , L_E , L_{max} , L_{min} , L_{peak}	15.6 μ s (20.8 μ s for octave, 1/3 octave simultaneous analysis)	L_N	100 ms
L_{eq} , L_E , L_{max} , L_{min} , L_{peak}	15.6 μ s (20.8 μ s for octave, 1/3 octave simultaneous analysis)				
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Correction functions	<table border="1"> <tr> <td>Windscreen correction</td> <td>Frequency response correction to ensure standard compliance with windscreen installed correction on/off setting via menu</td> </tr> <tr> <td>Diffuse sound field correction</td> <td>Correction of frequency characteristics in order to comply with standards (ANSI S1.4) in diffuse sound fields Correction function on/off operation implemented on the menu screen</td> </tr> </table>	Windscreen correction	Frequency response correction to ensure standard compliance with windscreen installed correction on/off setting via menu	Diffuse sound field correction	Correction of frequency characteristics in order to comply with standards (ANSI S1.4) in diffuse sound fields Correction function on/off operation implemented on the menu screen
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Display	Color semi-transparent TFT-LCD display with backlight (240 x 320 dots)				
Refresh cycle	100 ms				
Trigger	Controls measurement and memory storage start.				
Level 1	Measurement starts with the trigger level (1 dB intervals) as threshold and stops when the set measurement times elapses. Slope +/- is set.				
Level 2	1 time only measurement when the trigger level is exceeded.				
External	Starts when a falling signal in the logic level of the external trigger terminal is detected.				
Time	Sets start time and trigger repeat interval.				
Delay time	After the start key is pressed, the time until the start of the measurement or trigger detection is set.				
Time setting	1 sec intervals within the range of 0 to 10 sec				
Back erase function	Measurement is temporarily suspended by pressing the pause key and the previous 5 seconds of data is eliminated from the calculation.				
Storage	The sound level or calculation results are recorded in the manual or auto-store mode. Data is recorded either in the internal memory or CF card. Internal memory has 1 block and it is possible to select either manual storage or auto-storage 1, 2.				

* Specifications subject to change without notice.

Manual store	Manual recording of measurement results per address together with the measurement start time																																
Record data count	<table border="1"> <tr> <td>Internal memory</td> <td>Maximum 1 000 sets</td> </tr> <tr> <td>CF card*</td> <td>Maximum 1 000 sets per store name, maximum 100 store names can be stored</td> </tr> </table>	Internal memory	Maximum 1 000 sets	CF card*	Maximum 1 000 sets per store name, maximum 100 store names can be stored																												
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Auto store	Continuous recording of measurement results at the set time interval (It is possible to append 4 types of marker data in order to be able to identify events that occur while recording) Pause does not function during auto-storage																																
Auto 1	<table border="1"> <tr> <td>Measurement time</td> <td>Maximum time: 1 000 hours (when using the CF card, refer to the following if using internal memory)</td> </tr> <tr> <td>Sound level meter mode</td> <td>Continuous recording in the CF card every 100 ms of L_p, L_{eq}, L_{max} and L_{min} as 1 set It is not possible to record sub-channel measurement results.</td> </tr> <tr> <td>Sampling cycle when using internal memory</td> <td>100 ms (L_p, L_{eq}, L_{max}, L_{min}) only Maximum time: 3 hours</td> </tr> <tr> <td>Analyzer mode</td> <td>Continuous recording in CF card instantaneous sound pressure level (L_p) in each band level and all-pass values</td> </tr> <tr> <td>Main channel</td> <td>All-pass values and band level values</td> </tr> <tr> <td>Sub-channel</td> <td>All-pass values only</td> </tr> <tr> <td>Sampling cycle when using internal memory</td> <td>1 ms to 1 sec, $L_{eq,1s}$ Maximum 10 000 sets (1 sec or, for $L_{eq,1s}$, 2.7 hours)</td> </tr> </table>	Measurement time	Maximum time: 1 000 hours (when using the CF card, refer to the following if using internal memory)	Sound level meter mode	Continuous recording in the CF card every 100 ms of L_p , L_{eq} , L_{max} and L_{min} as 1 set It is not possible to record sub-channel measurement results.	Sampling cycle when using internal memory	100 ms (L_p , L_{eq} , L_{max} , L_{min}) only Maximum time: 3 hours	Analyzer mode	Continuous recording in CF card instantaneous sound pressure level (L_p) in each band level and all-pass values	Main channel	All-pass values and band level values	Sub-channel	All-pass values only	Sampling cycle when using internal memory	1 ms to 1 sec, $L_{eq,1s}$ Maximum 10 000 sets (1 sec or, for $L_{eq,1s}$, 2.7 hours)																		
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Record data count	Internal memory: Maximum 1 000 sets CF card: Maximum 300 000 sets																																
Data recall	Stored data access and time/level display (selected frequency band 1 only)																																
Memory store of settings	Maximum 5 sets of settings can be stored in internal memory and retrieved Start-up is possible under file setting conditions stored in the CF card in advance.																																
Printout	Measurement results can be printed using the special USB printer(Optional)																																
Screen print mode	1-page printing of the displayed screen																																
Memory print mode	Continuous printing of data in the specified address range in memory																																
Input/output	<table border="1"> <tr> <td>AC output</td> <td>Selection and output of all-pass signals of either the main channel or sub-channel</td> </tr> <tr> <td>Output voltage</td> <td>1 V (effective value) at range full scale</td> </tr> <tr> <td>Output resistance</td> <td>600 Ω</td> </tr> <tr> <td>Load resistance</td> <td>10 kΩ or more</td> </tr> <tr> <td>DC output</td> <td>Selection and output of all-pass signals of either the main channel or sub-channel</td> </tr> <tr> <td>Output voltage</td> <td>3.0 V, 25 mV/dB at range full scale</td> </tr> <tr> <td>Output resistance</td> <td>50 Ω</td> </tr> <tr> <td>Load resistance</td> <td>10 kΩ or more</td> </tr> <tr> <td>Comparator output</td> <td>Open collector output. Determination is also possible at the band level. The terminal is also used for the external trigger.</td> </tr> <tr> <td>Maximum applied voltage</td> <td>24 V</td> </tr> <tr> <td>Maximum driving current</td> <td>50 mA</td> </tr> <tr> <td>External trigger input</td> <td>Falling edge is detected at 0V to 5V logic level. The terminal is also used for the comparator.</td> </tr> <tr> <td>USB</td> <td>Besides connection to a PC as a storage device, it is also possible to use communication device class and execute control by communication commands (however, settings relating to the transfer of stored data and storage action are not possible with communication commands).</td> </tr> <tr> <td>Remote control reception</td> <td>Control of NA-28 by infrared remote control (remote control NA-27RC1, optional)</td> </tr> </table>	AC output	Selection and output of all-pass signals of either the main channel or sub-channel	Output voltage	1 V (effective value) at range full scale	Output resistance	600 Ω	Load resistance	10 k Ω or more	DC output	Selection and output of all-pass signals of either the main channel or sub-channel	Output voltage	3.0 V, 25 mV/dB at range full scale	Output resistance	50 Ω	Load resistance	10 k Ω or more	Comparator output	Open collector output. Determination is also possible at the band level. The terminal is also used for the external trigger.	Maximum applied voltage	24 V	Maximum driving current	50 mA	External trigger input	Falling edge is detected at 0V to 5V logic level. The terminal is also used for the comparator.	USB	Besides connection to a PC as a storage device, it is also possible to use communication device class and execute control by communication commands (however, settings relating to the transfer of stored data and storage action are not possible with communication commands).	Remote control reception	Control of NA-28 by infrared remote control (remote control NA-27RC1, optional)				
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Power supply	Four IEC R14P (size"C") batteries or external power supply																																
Operating time (23 °C, normal operating conditions)	When following not functioning ; sub-channel, backlight, AC output, DC output, USB function, remote-control, autostore																																
Manganese batteries	R14PU, 6 hours																																
Alkaline batteries	LR14, 16 hours (10 hours if backlight is continuously activated)																																
AC adapter	NC-94A																																
External power supply voltage	5 V to 6 V (rated voltage: 6 V)																																
Consumption current	230 mA (during normal operation at rated voltage)																																
Ambient conditions for operation	-10 °C to +50 °C, 10 %RH to 90 %RH																																
Dimensions, weight	331 (H)×89 (W)×51 (D)mm, approx. 730 g (including batteries)																																
Supplied accessories	Memory card (128 MB) MC-12CF1 × 1, Storage case × 1, Soft case × 1, AC adapter NC-94A × 1, Windscreen WS-10 × 1, BNC-RCA cable CC-24 × 1, Strap × 1, IEC R14P (size"C") batteries (alkaline) × 4																																
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