

SPECIFICATIONS

FREQUENCY	Frequency Range Aging Rate Span Range Phase Noise Sweep Time Range	9kHz ~ 3GHz ± 10ppm, 0-50°C, 5ppm/yr 2kHz ~ 3GHz in 1-2-5 sequence, full span, zero span -80dBc/Hz @ 1GHz , 20kHz offset typical 50ms ~ 25.6s
RESOLUTION BANDWIDTH	RBW Range RBW Accuracy Video Bandwidth Range	3kHz, 30kHz, 300kHz, 4MHz 15% 10Hz ~ 1MHz in 1-3 steps
AMPLITUDE	Measurement Range Overload Protection Reference Level Range Accuracy Frequency Flatness Display Range Linearity	-103dBm ~ +20dBm, 1MHz ~ 15MHz , Ref. Level ≥ -30dBm -120 ± 1dBm ~ +20dBm, 15MHz ~ 600MHz, Ref. Level @ -50dBm -117 ± 1dBm ~ +20dBm, 600MHz ~ 2.3GHz, Ref. Level @ -50dBm -115 ± 1dBm ~ +20dBm, 2.3GHz ~ 3GHz +30dBm, 25VDC -110dBm ~ +20dBm ± 1dB @ 100MHz ± 1dB ± 1dB over 70dB
DYNAMIC RANGE	Average Noise Floor Third Inter-Modulation Harmonic Distortion Non-Harmonic Spurious	-135dBm/Hz, 1MHz ~ 15MHz , Ref. Level ≥ -30dBm -152 ± 1dBm/Hz, 15MHz ~ 600MHz, Ref. Level @ -50dBm -149 ± 1dBm/Hz, 600MHz ~ 2.3GHz, Ref. Level @ -50dBm -147 ± 1dBm/Hz, 2.3GHz ~ 3GHz < -70dBc @ -40dBm Input , Ref. Level @ -30dBm < -60dBc RF Input < -40dBm, Ref. Level @ -30dBm < -110dBm @ 3kHz RBW
GENERAL	Display Internal Memory Markers Trace Detection Power Measurement Autoset Function Sequence	640 x 480 high resolution color TFT LCD 10 Traces , 10 Setup info , 10 Limit lines , 5 Corrections , 10 Sequences 10 Markers for peaks; 5 normal-delta marker pairs ; Functions: Delta , Peak , Marker Track 3 traces with Peak, Maximum hold, Freeze, Average and Trace math ACPR, OCBW, Channel power, N dB BW, and Phase jitter Auto tuning the measurement result for observation Automated test by user-defined macros without any remote control
CONNECTORS	RF-Input External Reference Clock Input External Trigger Input Reference Clock Output DC Input RS-232C USB Connector DC Voltage Output Terminal	Type: N female, 50Ω nominal ; RF input VSWR: < 2 : 1 @ 0dBm Ref. Level Type: BNC female, 1M, 1.544M, 2.048M, 5M, 10M, 10.24M, 13M, 15.36M, 15.4M, 19.2M Type: BNC female, accept +5-V TTL signal Type: BNC female, 10MHz Jack: 5.5mm, 12V Sub-D 9 pins female Front panel: type A receptacle ; Rear panel: type mini-B receptacle Type: SMB male, outputs +9V/100mA max.
POWER SOURCE	AC 100 ~ 240V, 50/60Hz	
ACCESSORIES	Power cord x 1 , User manual x 1	
DIMENSIONS & WEIGHT	330(W) x 170(H) x 340(D) mm, Approx. 6kg	

OPTION LIST

Opt. 01 Tracking Generator	Frequency Range Amplitude Range Amplitude Accuracy Amplitude Flatness Harmonics Reverse Power Impedance TG output VSWR	9kHz ~ 3GHz -50dBm ~ 0dBm ± 1dB @ 100MHz, 0dBm ± 1dB @ 0dBm < -30dBc typical +30dBm Type: N female, 50Ω nominal < 2 : 1
Opt. 02 Battery pack	10.8V Li-Ion battery pack x 2	
Opt. 03 ±1ppm Stability	±1ppm , 0 ~ 50°C, ±1ppm/yr	
Opt. 04 300Hz RBW	RBW 300Hz, 3dB bandwidth RBW accuracy : 15%	
Opt. 05 9kHz & 120kHz RBW(*)	RBW selections : 9kHz and 120kHz, 6dB bandwidth RBW accuracy : 15%	
Opt. 06 10kHz & 100kHz RBW(*)	RBW selections : 10kHz and 100kHz, 3dB bandwidth RBW accuracy : 15%	
Opt. 07 AM/FM Demodulator & 10kHz & 100kHz RBW(*)	Demodulation : AM , FM Output : internal speaker, 3.5mm stereo jack wired for mono operation RBW selections : 10kHz and 100kHz, 3dB bandwidth RBW accuracy : 15%	
Opt. 08 GPIB Interface	IEEE 488 bus	
OPTIONAL ACCESSORY		
GSC-001 Soft Carrying Case	Soft carrying case	
GKT-001 General Kit set	ADP-002: adaptor, SMA(I/F) ~ N(P/M) x 2 ATN-100: 10dB attenuator, N(I) ~ N(P) x 1 GTL-303: RF cable assembly(SMA(P),RD316,600mm)x2 GSC-002: Kit box x 1	
GKT-002 CATV Kit set	ADP-001: adaptor, BNC(I/F) ~ N(P/M) x 2 ADP-101: adaptor, BNC(I/F) 75Ω ~ BNC(P/M) 50Ω x 2 GTL-304: RF cable assembly(RG223, N(P)-N(I), 300mm)x2 GSC-003: Kit box x 1	
GKT-003 RLB Kit set	GAK-001: termination 50Ω , N(P) x 1 GAK-002: Cap with chain, N(P) x 1 GTL-302: RF cable assembly(RG223, N(P), 300mm)x2 GSC-004: Kit box x 1	
GTL-401 DC Power Cord	DC power cord with DC Jack and lighter plug, Current 5A	
GAP-801 Pre-Amplifier	GAP-801: Pre-amplifier with 10dB (typical) 9kHz ~ 6GHz	

NOTE : 1. (*) Only one option can be selected among Opt. 05 to 07.
2. Opt. 01 & 03 to 07 are factory-installed.

Specifications subject to change without notice. SP-830GD0DH

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