

EW PRODUCTS Spectrum Analyzer



GSP-810 (150kHz~1000MHz)

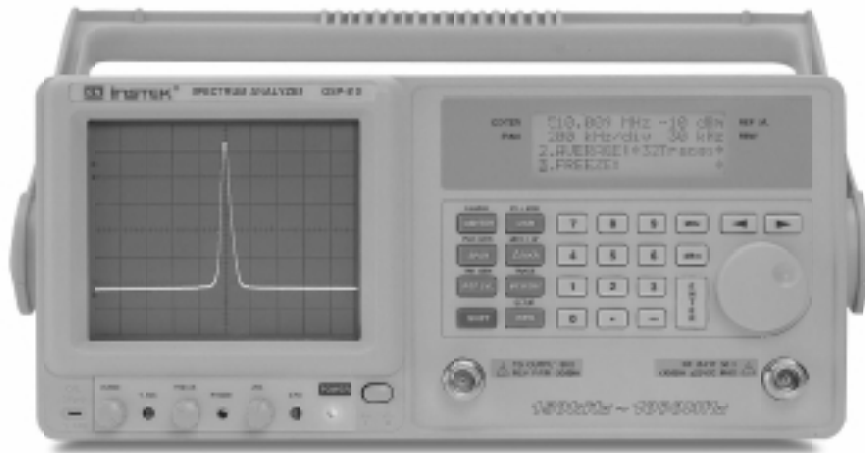
FEATURES :

- * Frequency Range :150kHz~1000MHz
- * Fully Digital Phase Locked Loop Technique Design
- * High Frequency Stability : ± 10 ppm
- * High Resolution of Span to Measure the More Detailed Signal : Zero, 2kHz~100MHz/DIV.
- * RBW:3k,30k, 220k, 4M
- * High Input Protection Level : +30dBm, ± 25 VDC
- * Reference Level Range : -30dBm~+20dBm
- * Good Noise Floor Performance: -95dBm @30kHz, -100dBm typical. over -150dBm/Hz typical @220kHz and 4MHz RBW
- * Spurious Noise : <-60dB
- * Intermodulation (3rd) : <-70dBc
- * Two Markers for Absolute and Relative Measurement
- * Functions: Max. Hold, Average(2~32 traces), Freeze, Peak Search, Marker to Center Functions
- * 9 Memories of Save/Recall
- * RS232 Interface and Software to get Trace from GSP-810 to PC
- * Options : Power Meter, Tracking Generator, Remote Control Software

SPECIFICATIONS

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FREQUENCY	Frequency Range Frequency Resolution Frequency Display Frequency Control Frequency Stability Frequency Spans	150kHz to 1000MHz 1 kHz C.F. entry, 40 Hz sweep resolution at 2 kHz/DIV 6 1/2 digit setting Digital phase locked ± 2 ppm/year aging , ± 10 ppm, 0 to 50°C Zero, 2 kHz to 100 MHz/DIV. in a 1-2-5 sequence
BANDWIDTH	Resolution Bandwidths Resolution BW Accuracy Video Bandwidth	3 kHz, 30 kHz, 220 kHz, 4 MHz 15% 1.6kHz/90kHz couple with RBW
AMPLITUDE	Reference Level Range Reference Level Accuracy Input Level Range Noise Floor Amplitude Display Range Amplitude Accuracy Amplitude Level Linearity Ref. Level Freq. Flatness Harmonic Spur Response Non-Harmonic Spur Response Intermodulation (3rd) Phase Noise	-30 dBm to + 20 dBm ± 1 dB at 80 MHz -100 dBm to +20 dBm -95 dBm @ 30 kHz RBW, -100 dBm typical/-75dBm:150kHz~10MHz 75 dB ± 1.5 dB typical @ 0 dBm, 80 MHz ± 1.5 dB over 70 dB ± 1.5 dB over 100MHz, ± 2.5 dB typical over entire band/ ± 3 dB:150kHz~10MHz < -40 dBc, RF input < selected reference < -60 dBc typical down from reference level, average, 5 MHz/DIV < -70 dBc, @-40 dBm input, 2 tones, 2MHz apart/<-45dBc:150kHz~10MHz -77dBc/Hz at 1 GHz, 30 kHz offset
INPUT	Input Overload Protection Impedance Return Loss Input Attenuation Connector	+30 dBm continuous, ± 25 VDC 50 ohm nominal <16 dBRL (VSWR < 1.35) 50 dB to 0 dB in 10 dB steps coupled to reference level Type N female
MARKER	Number of Markers Marker Resolution Marker Mode Marker Accuracy	2 0.1 dB, 1 kHz Absolute, relative, PK->marker, marker->center 0.1dB \pm amplitude accuracy
FUNCTIONS	Memory Trace Setup	9 memories of save/recall Max. hold, average (2~32 traces), freeze(Hold) Access parameters
REMOTE DISPLAY SOFTWARE AND RS-232C		Connecting to PC and getting the trace from GSP-810, Software will be downloaded from GW Web-Site
FM/AM DEMODULATOR	WB FM MB FM NB FM AM Outputs	120 kHz deviation 75 kHz deviation 30 kHz deviation Internal speaker, 3.5mm stereo jack, wired for mono operation

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GSP-810 FRONT VIEW

OPTIONS		
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TRACKING GENERATOR (OPTION 01)	Frequency Range Amplitude Range Amplitude Resolution Amplitude Accuracy Attenuation Accuracy Amplitude Flatness Harmonics Reverse Power Impedance Return Loss Connector	10 MHz to 1000 MHz 0 to - 50 dBm 1 dB ± 1 dB @ 0 dBm, 80 MHz ± 1 dB @ 50 MHz ± 1 dB @ 10 MHz/DIV, ± 1.5dB@0dB, entire band < -30 dBc < +30 dBm 50 ohm nominal < 10 dBRL (VSWR < 2) Type N female
POWER METER (OPTION 02)	Frequency Range Power Level Range Power Level Overload Return Loss Readout Resolution Accuracy Readout	10MHz to 2 GHz, usable to 2.7GHz -20 dBm to +23 dBm, usable to +30 dBm +40 dBm < 10% duty cycle, < 10 mS duration < 1:1.35 VSWR into 50 ohms, < 1:1.25 typical 0.2 mW, 100 mW scale, 2 μ W, 1 mW scale; 0.1dB, Log scale ± (10% rdg ± 1digit) mW or dBm
REMOTE CONTROL SOFTWARE (OPTION 03)		Connecting PC to get the trace and provide the control for setting.
POWER SOURCE		AC 100V/120V/220V/230V ± 10%, 50/60Hz
ACCESSORY		Operation manual x1
DIMENSIONS & WEIGHT		310(W) x 150(H) x 455(D)mm, Approx. 8.5kg