

ST5010 Spectrum Analyser

Technical Specification



General

Display :	CRT 6 Inch. 8 x 10 internal graticule.
Trace rotation :	Adjustable on front panel.
Line Voltage :	220V± 10%, 50-60 Hz.
Power consumption :	Approx. 25w
Operating temp.	+10°C to +40°C
Protective System :	Safety class 1 (IEC 1010-1).
Cabinet :	285 (W) x 125 (H) x 380 (D) mm.
Weight :	Approx 7 Kg.
Accessories Supplied :	Instruction Manual, power cord.
Optional Accessories :	Sniffer Probe: (1. High impedance Probe 2. Magnetic field Probe 3. Electric Field Probe)

Features

1. Frequency Range : 150KHz to 1050MHz
2. 4½ Digit Display : Center & Market frequency, 0.1 MHz resolution
3. Amplitude range - 100dBm to + 13dBm
4. Filters : 20KHz, 250KHz & Video Filter.
5. Built-in Tracking generator : 0.15 MHz to 1050 MHz (Only for Model 5010TG)
6. Output Power : + 1dBm to -50dBm (50 ohms)

Frequency :

Frequency Range	150KHz to 1050MHz (-3dB)
Frequency :	
Resolution Displayed	Resolution 100KHz, (4½ digit)
Center Frequency	
Display Accuracy	± 100KHz
Marker Accuracy	0.1% Span + 100 KHz
Frequency Stability (Drift)	<150KHz/hr.
Frequency Span	Zero span 0Hz/div, and 100KHz/div to 100MHz/div in 1-2-5 sequence.
Accuracy	±10%
RBW (-3dB)	Resolution 20KHz & 250 KHz.
Video Bandwidth, VBW :	400 KHz.
Sweep Time (Fixed)	23m

Amplitude :

Amplitude Range	-100 dBm to +13 dBm
Screen Display Range	80 dB (10 dB/div).. 8 div
Reference Level	-27 dBm to + 13 dBm (in 10 dB steps). -27, -17, -7, +3 and +13 dBm
Accuracy (Ref. Level)	±2 dB
Average Noise Level	-103 dBm (250KHz RBW)
Frequency Response (Relative to 250 MHz, ATTN 10 dB)	±2 dB
Intermodulation (3rd order) (Spurious Response)	<-75 dBc (2 signal, -27 dBm each Freq. Distance>3 MHz)
Harmonic Distortion (2nd, 3rd)	<-75 dBc
Absolute Amplitude Accuracy	±2.5 dB

Input:

Input Impedance	50 ohms
Input Connector	BNC
Input Attenuator	0 to 40 dB (4x10 dB steps)
Input Attenuator Accuracy	±2 dB/10dB step
Max. Input Level	+10dBm, (0dB attenuation) DC: ±25 V

Tracking Generator :

(Only for 5010 TG)	
Output Frequency Range	150 KHz to 1050 MHz
Output Power Level	-50dBm to +1 dBm (in 10dB steps & Variable).
Output Attenuator	0 to 40 dB (4 x 10 dB steps)
Output Attenuator Accuracy	±1 dB
Output Flatness (150KHz to 1050MHz)	±1.5 dB
Spurious Outputs	
Harmonic Spurs & Non harmonic Spurs (RF1)	<20dBc
Output Impedance	50 ohms (BNC female)

Miscellaneous

AM/Demodulation	Earphones
Load Impedance	>8w

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