

## Specifications

### Frequency

<b>Frequency Range:</b>	0.15MHz to 1050MHz
<b>Center Frequency Range</b>	0 to 1050MHz
<b>CF setting:</b>	continuous
<b>CF Display, Resolution:</b>	4½Digit, 100kHz
<b>CF Display Accuracy:</b>	±100kHz
<b>Stability (Drift):</b>	<150kHz / h
<b>Span:</b>	0Hz (zero Span), 100kHz/Div to 100MHz/Div in 1-2-5 sequence
<b>Span Accuracy:</b>	±10%
<b>Sweep Time (fixed):</b>	23ms
<b>Resolution Bandwidth, RBW(-3dB):</b>	20kHz, 250kHz
<b>Video Bandwidth:</b>	4kHz
<b>Marker Display, Resolution:</b>	4½Digit, 100kHz
<b>Marker Accuracy:</b>	±(0.1% Span + 100kHz)
<b>Marker setting:</b>	continuous

### Amplitude

<b>Measurement Range:</b>	-100dBm to +13dBm
<b>Displayed Average Noise Level:</b>	-103dBm (250kHz RBW)
<b>Frequency Response</b>	±2dB*
(Relative to 500 MHz, ATTN 10dB)	
<b>Input Attenuator Range:</b>	40dB, 10dB steps
<b>Accuracy (reference level):</b>	±2dB
<b>Maximum Safe Input Level</b>	
Attenuator setting 20db:	+20dBm (0,1W)
Attenuator setting 0dB:	+10dBm
DC:	±25 V
<b>Display Range:</b>	80dB, 8 Divisions
<b>Scale Units</b>	dBm
<b>Reference Level (ATTN=0dB):</b>	-27dBm
<b>Res. Bandwidth Switching Uncertainty:</b>	±1dB
<b>Spurious responses:</b>	
<b>Intermodulation (3rd Order):</b>	< -75dBc
(2 Signals, -27 dBm each, Frequency distance>3MHz)	
<b>Harmonic Distortion (2nd at input level -27dBm, ATTN0dB):</b>	< -55dB
<b>Amplitude Display Accuracy:</b>	±2.5dB

\* ref. to reference level

### Tracking Generator (only HM5011)

<b>Output Frequency Range:</b>	0.15MHz to 1050MHz
<b>Output Power Level:</b>	-50dBm to +1dBm (in 10dB steps and var.)
<b>Output attenuator:</b>	0 to 40dB (4 x 10dB steps)
<b>Output attenuator accuracy:</b>	±1dB
<b>Output flatness: (150kHz to 1050MHz)</b>	±2dB
<b>Spurious Outputs:</b>	Harmonic Spurs <20dBc
Non-Harmonic Spurs	<20dBc
<b>Output impedance:</b>	50Ω (BNC Female)

### Miscellaneous

<b>AM-Demodulator</b>	Ear Phones
<b>Probe Power</b>	6V (Near Field Probes)

### General

<b>Display:</b>	CRT 6 inch, 8 x 10 div. intern. graticule
<b>Trace rotation:</b>	Adjustable on front panel
<b>Line voltage:</b>	115 / 230V ±10%, 50-60Hz
<b>Power consumption:</b>	approx. 34W
<b>Operating ambient temperature:</b>	10°C..+40°C
<b>Protective system:</b>	Safety Class I (IEC 1010-1)
<b>Cabinet:</b>	W 285, H 125, D 380 mm
<b>Weight:</b>	approx. 7kg

Subject to change without notice

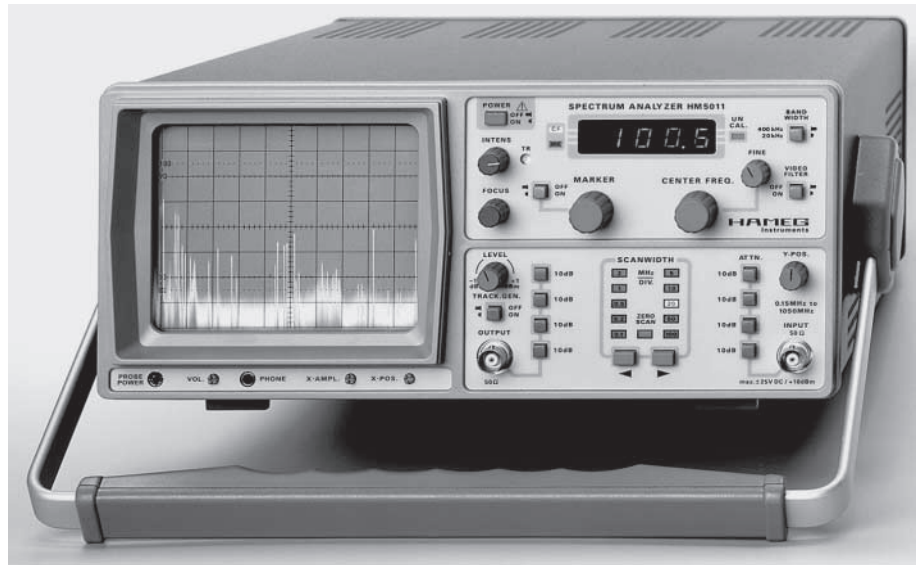
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### Accessories supplied:

Line cord, Operators Manual

### Optional Accessories

look at page No. 20-22



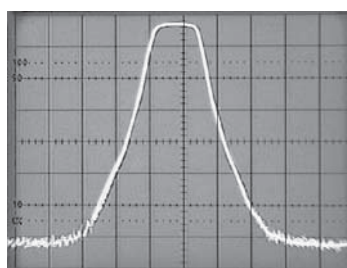
## Spectrum Analyzer HM5010 / HM5011

<b>Frequency Range:</b>	0.15MHz - 1050MHz.
<b>4½ Digit Display (Center &amp; Marker Frequency, 0.1MHz resolution)</b>	
<b>Amplitude Range:</b>	-100 to +13dBm
<b>Filters:</b>	20kHz, 250kHz and Video Filter
<b>Tracking Generator (HM5011 only)</b>	0.15MHz - 1050MHz.
<b>Output Power:</b>	+1dBm to -50dBm (50Ω).

Evolution of the original HM5005/HM5006 has led to the **new HM5010/HM5011 Spectrum Analyzer/Tracking Generator** which now extends operation **over 1 GHz** (frequency range 0.15 to 1050 MHz). Both fine and coarse center frequency controls, combined with a scanwidth selector provide simple frequency domain measurements from 100 kHz/div. to 100 MHz/Div. Both models include a **4½ digit numeric LED readout** that can selectively display either the center or marker frequency. The **HM5011** includes a **tracking generator**.

The **HM5010/5011** offer the same operation modes as the HM5005/5006. The instruments are suitable for pre-compliance testing during development prior to third party testing. A near-field sniffer probe set, **HZ530**, can be used to locate cable and PC board emission "hot spots" and evaluate **EMC problems** at the breadboard and prototype level. The combination of **HM5010/5011** with the **HZ530** is an excellent solution for RF leakage/radiation detection, **CATV/MATV** system troubleshooting, cellular telephone/pocket pager test, and **EMC** diagnostics. The HO500-2 Interface optional measurement output for a PC, makes documentation of results easy and affordable.

Filter response measured with HM5011



Switch mode power supply radiation measured with HM5010 and E-Field probe.

