

The **HM5005** Features: Frequency Range 0.5MHz - 500MHz. 4 Digit Display (Center & Marker Frequency, 0.1MHz resolution) -100 to +13dBm Amplitude Range, 12.5kHz, 250kHz and Video-Filter.

The **HM5005** Spectrum Analyser is the ideal instrument for analysing any kind of signal within the frequency range of 0.5 to 500MHz. Includes a Scanwidth Selector that can adjust the frequency display width from 50kHz to 50MHz per division, which includes the added features a Frequency Marker with Digital Readout and 100kHz resolution. The analyser can measure low amplitude signals and has a measurement range of over 110dB. Including switchable attenuators, a range of -100dBm to +13dBm can be measured with 80dB being displayed on the screen at 10dB/division. In "Zero Scan Mode" selective amplitude level measurements can be performed, while tuned to fixed frequency.

The **HM5005** includes a 4 digit numeric LED readout that can selectively display either the Center or Marker Frequency. Frequency measurement is accomplished by adjusting a needle-like cursor to the point of interest on the display and reading the 4 digit Marker Frequency value. The HM5005 Spectrum Analyser is extremely low priced, but still equipped to meet the RF measurement needs of education and industry. With this user friendly instrument HAMEG out-performs and out-prices its competitors.

### Specifications

#### Frequency

Frequency Range:	0.5MHz to 500MHz (-3dB)
Centre Freq. Display Accuracy:	±100kHz
Marker Accuracy:	±(0.1% span + 100kHz)
Frequency Display Resolution:	100kHz (4 digit LED)
Frequency Scanwidth:	50kHz/div. to 50MHz/div. in 1-2-5 steps and 0Hz/div. (Zero scan)
Frequency Scanwidth Accuracy:	±10%
Frequency Stability:	Drift: <150kHz/ hour
IF Bandwidth(-3dB)	Resolution: 250kHz and 12.5kHz Video-filter on: 4kHz
Sweep Rate:	43Hz

#### Amplitude

Amplitude Range:	-100dBm to +13dBm
Screen Display Range:	80dB (10dB/div.)
Reference Level:	-27dBm to +12dBm (in 10dB steps)
Reference Level Accuracy:	±2dB
Average Noise Level:	-99dBm (12.5kHz BW)
Second and Third Harmonic:	<-75dBc
Third Order Intermod.:	-70dBc (two signals >3MHz apart)
Log Scale Fidelity:	±2dB (without attn.) 250MHz
IF Gain:	10dB adjustment range

#### Input

Input Impedance:	50R
Input Connector:	BNC
Input Attenuator:	0 to 40dB (4 x 10dB steps)
Input Attenuator Accuracy:	±1dB
Maximum Output Level:	+10dBm, ±25Vdc, (with 0dB attenuation) +20dBm (with 40dB attenuation)

#### General

Operating Temperature:	10°C to 50°C,
Display:	6"CRT, 8 x 10 div.graticule
Trace Rotation:	Adjustable on front panel
Line Voltage:	90 - 260Vac, 50/60 Hz
Power Consumption:	20W approx.
Dimensions:	125 x 285 x 380mm, Weight: 6 kgrams approx.
Accessories Supplied:	Line cord, Operators Manual