

## AE-766, AE-767



The AE-766 & AE-767 are designed for minimal set-up and adjustment, besides, the user interface allows fast and accurate measurements. The fully synthesised design of the AE-766/AE-767 permits stable operation from 150 kHz to 1 GHz with a span down to 2 kHz/division.

The AE-766 is the basic model whereas the AE-767 includes a Tracking Generator

### APPLICATIONS

- Broadcasting systems
- Cellular telephony, paging
- Wireless products analysis
- RF circuits and components characterisation
- EMC pre-conformity test

### DESIGNED FOR

- RF and communications labs
- Industry and education
- Technical Support Services specialised in RF
- Wireless Telephony
- Telecommunications Installers

### Main Characteristics

- High Frequency Stability: +10 ppm
- High Resolution Frequency Span to Measure the More Detailed Signal: 0, 2kHz ~ 100MHz/Div
- Resolution BW : 3k, 30k, 220k, 4MHz
- Good Noise Floor Performance : -95dBm @30kHz, -100dBm typical / -75dBm : 150kHz ~ 10MHz
- High Input Protection Level : +30dBm, +25VDC
- Reference Level Range : -30dBm ~ +20dBm
- RS232 Interface and Software to Get Trace from PC

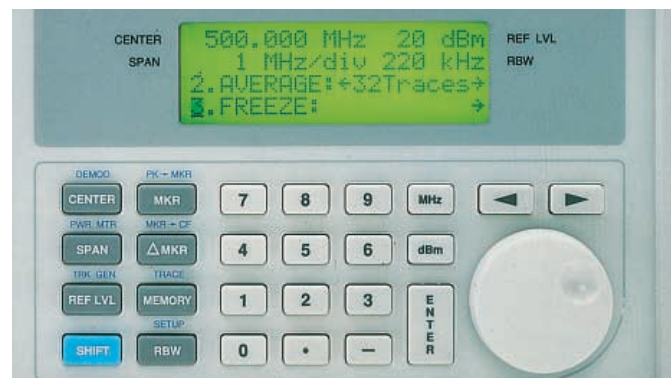
### Tracking Generator (only AE-767)

Its built-in tracking generator turns the AE-767 into a highly useful tool for the response measurement of any radio frequency system from 10 MHz to 1000 MHz (filters, amplifiers, attenuators, cables ...).

### User friendly

- Two markers make easy to carry out absolute and relative measurements.

- Functions to make agile the measurement: Max. Hold, Average (2 ~ 32 traces), Freeze, Peak Search, Markers to Center Function,



configuration memories, etc.

- Large alphanumeric display with information about: CENTRAL FREQUENCY, REFERENCE LEVEL, RESOLUTION BW, SPAN, SIGNAL LEVEL AT MARKER FREQUENCY (ABSOLUTE OR RELATIVE), ETC.

## AE-766, AE-767

SPECIFICATIONS	AE-766 & AE-767	Connector	Type N/BNC female
<b>Frequency</b> Frequency range Resolution Frequency display Frequency control Frequency stability Span	From 150 kHz to 1 GHz (usable up to 1150 MHz) 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	<b>Marker</b> Number of markers Marker resolution Marker mode Marker accuracy	2 0.1 dB, 1 kHz Absolute, Relative, PK-->Marker, Marker-->Center 0.1dB ± Amplitude accuracy
<b>Bandwidth</b> Resolution bandwidths Resolution BW accuracy Video Bandwidth	3 kHz, 30 kHz, 220 kHz, 4 MHz 15 % 1.6 kHz / 90KHz coupled with RBW	<b>Functions</b> Memory Trace Setup	9 memories of save/recall Max. Hold, Average (2~32 traces), Freeze(Hold) Access parameters
<b>Amplitude</b> Reference level range Reference level accuracy Input level range Noise floor Amplitude display range Amplitude accuracy Amplitude level linearity Ref. Level frequency 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:150k~10MHz 75 dB ± 1.5 dB typical @ 0 dBm, 80 MHz ± 1.5 dB over 70 dB ± 1.5 dB over 100 MHz, ± 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, 1MHz apart < -45dBc: 150kHz~10MHz - 77dBc/Hz @ 1 GHz, 30 KHz offset	<b>Tracking Generator (Only AE-767)</b> Frequency range Amplitude range Amplitude resolution Amplitude accuracy Attenuation accuracy Amplitude flatness Harmonics Reverse power Impedance Return loss Connector	From 10 MHz to 1000 MHz From 0 to -50 dBm 1 dB ±1 dB @ 0 dBm, 80 MHz ±1 dB @ 50 MHz ±1 dB @ 10MHz/div, ± 1.5dB @0dB, entire band < -30 dBc < +30 dBm 50 Ω nominal < 10 dBRL (VSWR < 2) Type N/BNC female
<b>Input</b> Input overload protection Impedance Return loss Input attenuation	+30 dBm continuous, ±25VDC 50 Ω nominal < 16 dBRL (VSWR < 1.35) 50 dB to 0 dB in 10 dB steps coupled to reference level	<b>RS-232 paralel port</b> <b>Optional accessories RM-766</b> <b>Power supply</b> Mains voltage Consumption	For the upset one of the plan to a PC, by means of provided software Remote control software by PC 100-120-220-230 V AC, 10%, 50-60 Hz aprox 70 W, 80 VA
		<b>Mechanical features</b> Dimensions Weight	W 310 x H 150 x D 455 mm 8.5 kg