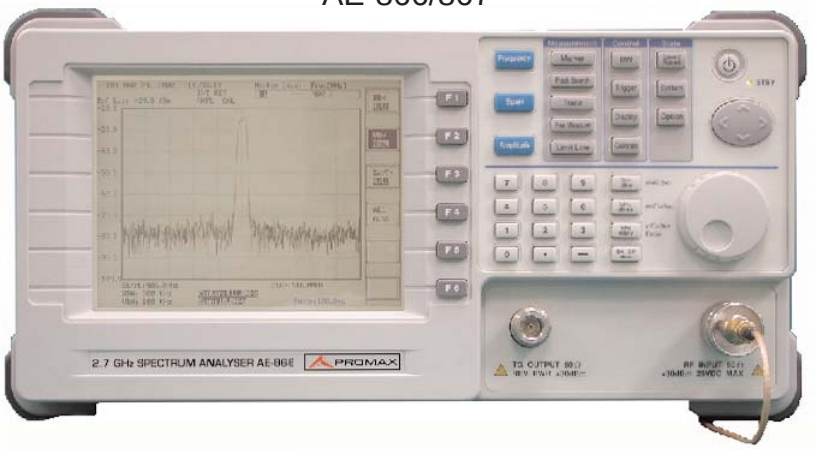
AE-866/AE-867 2.7 GHz, AE-766/AE-767 1 GHz

The **AE-866** and **AE-867** spectrum analysers cover a frequency band from 9 kHz to 2.7 GHz and allow a stable operation with span of 2 kHz/div to 2.5 GHz/div in sequence 1-2-5.

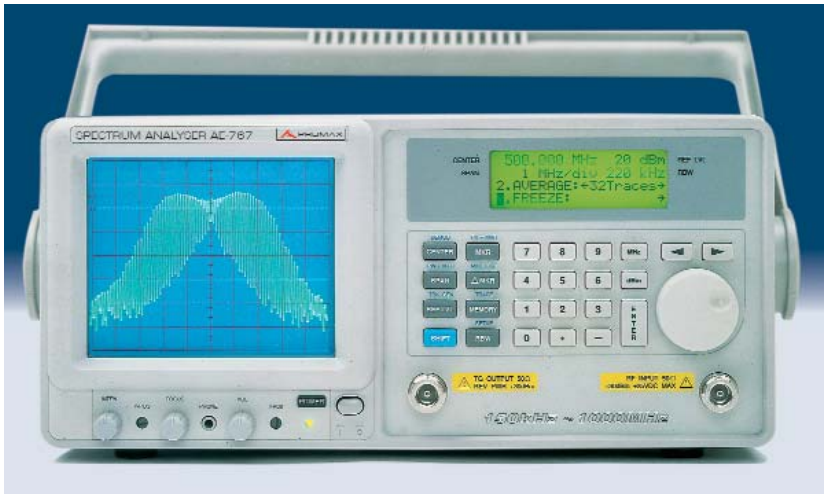
The **AE-866** is the basic model whereas the **AE-867** includes a Tracking Generator which turns the **AE-867** into a highly useful tool for the response measurement of filters, amplifiers, attenuators and, generally speaking, any kind of radio frequency system.

Both models are instruments easy to use, which require a minimum set-up and adjustment. In addition, its alphanumeric display allows carrying out quickly accurate measurements.

AE-866/867



AE-766/767



The fully sinthesised design of the **AE-766/767** permits stable operation from 150 kHz to 1 GHz.
The AE-766 is the basic model whereas the AE-767 includes a Tracking Generator

APPLICATIONS
DESIGNED FOR

- Broadcasting systems
- RF and communications labs
- Cellular telephony, paging
- Industry and education
- Wireless products analysis
- Technical Support Services specialised in RF
- RF circuits and components characterisation
- Wireless Telephony
- EMC pre-conformity test
- Telecommunications Installers

SPECIFICATIONS	AE-866 & AE-867	AE-766 & AE-767
Frequency		
Range	From 9 kHz to 2,7 GHz	From 150 kHz to 1 GHz (usable up to 1150 MHz)
Resolución	1 Hz C. F., 0.2% Span sweep resolution	1 kHz C. F. entry, 40 Hz Sweep resolution at 2 kHz/div
Frequency Display	640 x 480 high resolution graphical LCD, B&W	6 1/2 digit, 1 kHz resolution
Frequency Stability	± 5 ppm, 0 to 50º C, ± 1 ppm/year	± 10 ppm, 0 to 50 º C, ± 2 ppm/year
Span	Zero, 1 kHz/ div a 2,5 GHz/div in 1-2-5-Full sequence	Zero, 2 kHz to 100 MHz/div. in a 1-2-5 sequence
Bandwidth		
Resolution bandwidths	3 kHz, 30kHz, 300 kHz, 4MHz	3 kHz, 30kHz, 220 kHz, 4MHz
Resolution BW accuracy	15 %	
Video bandwidth	10 Hz to 1 MHz in 1-3 steps	1.6 kHz / 90 kHz coupled with RBW
Amplitude		
Reference level range	-30 dBm to + 20 dBm	
Input level range	-105 dBm to + 20 dBm, 10 M to 2.5 GHz -100 dBm to +20 dBm, 150 kHz to 10 MHz 2.5 GHz to 2.7 GHz -70 dBm to +20 dBm, 9k to 150 kHz	-100 dBm to +20 dBm
Amplitude accuracy	± 1.5 dB typical @ 100 MHz	± 1.5 dB typical @, 80 MHz
Amplitude level linearity	± 1.5 dB over 70 dB	

AE-766/AE-767, AE-866/AE-867

SPECIFICATIONS	AE-866 & AE-867	AE-766 & AE-767
Non-harmonic spur response	<-60 dB typical down from reference level, from 150 kHz to 2,7 GHz <-50 dB typical down from reference level, from 9 kHz to 150 kHz	<-60 dBc typical down from reference level, average, 5 MHz/div
Intermodulation (3rd)	<-70 dBc@ -40 dBm input	<-70 dBc, (-40 dBm input), <-45 dBc: 150 kHz ~ 10 MHz
Input	50 Ω nominal connector type N/BNC female	
Input overload protection	50 Ω nominal	
Return loss	VSWR<1.5:1@150 kHz to 2.5 GHz reference level 0 dB VSWR<2:1@2.5 to 2.7 GHz and from 9 kHz to 150 kHz reference level 0 dBm	VSWR <1.35:1
Connector	Type N/BNC female	
Marker		
Number of markers	10	2
Marker resolution	0.1 dB - 1 kHz	0.1 dB, 1 kHz
Marker mode	Absolute, relative, peak, delta	Absolute, Relative, PK-->marker, Marker-->Center
Marker accuracy	0.1 dB	0.1 dB ± amplitude accuracy
Functions		
Memory	100 setup memories	9 memories of save/recall
Trace	100 trace memories	Max. Hold, Average (2~32 traces), Freeze (Hold)
Setup	Access parameters	
Tracking Generator (Only AE-867/AE-767)		
Frequency range	From 9 kHz up to 2.7 GHz	De 150 kHz to 1000 MHz
Amplitude range	From 0 to - 50 dBm	
Resolution amplitude	0.1 dB	1 dB
Amplitude accuracy	± 1 dB (0 dBm)@100 MHz	± 1 dB (0 dBm) to 80 MHz
Amplitude flatness	± 1.5 dB @(0 dBm)	± 1 dB (10 MHz / div), ±1.5 dB (0 dB), entire band
Harmonics	<-30 dBc	<-25 dBc 150 kHz at 10 MHz
Reverse power	< +30 dBm	
Impedance	50 Ω nominal	
Return loss	VSWR <2:1	
RS-232C port	For the upset one of te plan to a PC (Free software) and remote controrol (Optional software)	
Demodulation	AM/FM optional	AM/FM included
EMI filter (optional)		
EMI filter and detector	RBW (6 dB) 9 kHz to 120 kHz Quasi-Peak detector	–
GPIB protocol	Command compatibility according to IEEE-488 SCPI rules (optional)	–
Power supply	AC 100-240 V, DC 12 V	100-120-220-230 V AC, 10% 50-60 Hz approx.
Battery	Li-Ion rechargeable battery pack using the DC/AC dual power supply (optional)	–
Consumption	AC 60 W, DC 40 W Max.	70 W, 80 V A
Mechanical features		
Dimensions	W 310 x H 170 x D 340 mm	W 310 x H 150 x D 445 mm
Weight	4.5 kg	8.5 kg