

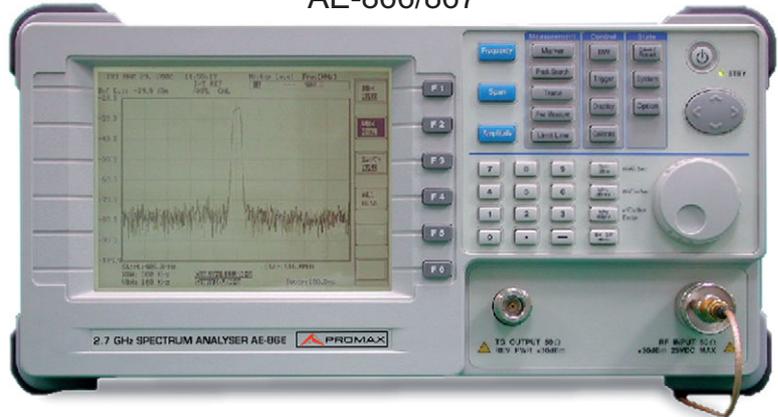
## AE-866/AE-867 2,7 GHz, AE-767 1 GHz

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.

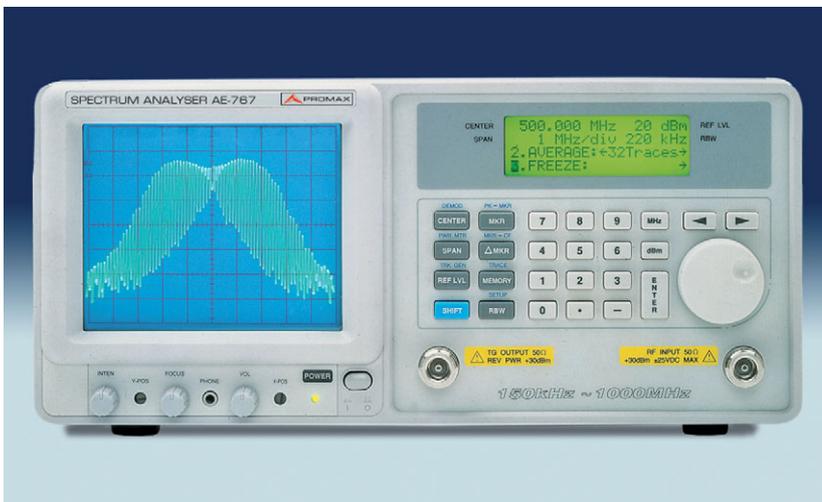
The **AE-866** is the basic model whereas the **AE-867** includes a Tracking Generator which turns the **AE-867** into a highly useful tool for the response measurement of filters, amplifiers, attenuators and, generally speaking, any kind of radio frequency system.

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-767



The fully synthesised design of the **AE-767** permits stable operation from 150 kHz to 1 GHz. 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-767   |
|---------------------------|--|--|
| <b>Frequency</b>          |  |  |
| Range                     | From 9 kHz to 2,7 GHz  | From 150 kHz to 1 GHz (usable up to 1150 MHz)          |
| Resolution                | 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 50° C, ± 1 ppm/year  | ± 10 ppm, 0 to 50° 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        |
| <b>Bandwidth</b>          |  |  |
| 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                      |
| <b>Amplitude</b>          |  |  |
| Reference level range     | -30 dBm to + 20 dBm  |  |
| Input level range         | -105 dBm to + 20 dBm, 10 M to 2.5 GHz<br>-100 dBm to +20 dBm, 150 kHz to 10 MHz<br>2.5 GHz to 2.7 GHz<br>-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-767, AE-866/AE-867

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