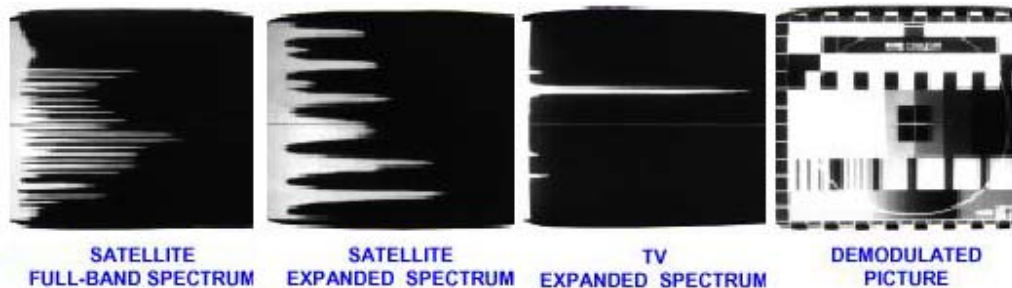


# Panoramic Field Strength Meter TV, Network and Satellite

## MC30A



The panoramic field strength meter **MC30A** combines in one instrument all the instruments necessary for installing and checking TV or satellite reception, both analogical and numerical. The visualization of the spectrum and the picture allows the carrying out of all the necessary adjustments with this one instrument. The high technology used in the mc30a allows a range of possibilities unheard of in a instrument in this price category.



- Synthesized satellite cable and TV field strength meter with panoramic reception on 14 cm (5.5") screen and digital carriers' measurement.
- Complete microprocessor and ISPLSI logic control.
- Continuous frequencies from 46 to 860 MHz and from 920 to 2150 MHz on 4 bands.
- Display of full-band and expanded spectrums (4 possible expanding).
- Selectable 4, 1 and 0.2 MHz spectrum band width, picture measurement 1 mhz.
- Display of picture of selected synthesized channel.
- fm (radio), l/l', b/g, i, d/k/k', m/n TV standards and ku and c satellite standards.
- Channels of frequency plans of cabled and TV standards memorized.
- Possibility of 32 programs memorized per frequency band. frequency, signal strength in dbμV or bargraph, displayed on alphanumerical display (2 lines of 16 characters).
- Range of measurement of signal strength from 20 to 120 dbμv, manual or automatic attenuator.
- Voltage of remote power supply in 14 or 18 v and 22 khz in satellite.
- Battery life about 1 hour 20 minutes.
- Weight 5.8 kg.

### FREQUENCY

- **Range:** From 46 to 860 and from 920 to 2150 MHz on 4 bands.
- **Tuning :**
  - Continuous on the band by multiturn digital codeur.
  - Recall off memorized programmes (32 possible per band) with "inc/dec" keys.
  - Memorized frequency plans channels selection in ROM with "inc/dec" keys.
- **Step:** 50 KHz in FM, 250 KHz in TV and 1 MHz in Sat.
- **Measurement :**
  - **In picture** By synthesized PLL, accuracy 50 ppm.
  - **In spectrum** By correspondance with memorized tables, indicational frequency without specified accuracy.
- **Display:** On LCD.
- **Satellite Frequency Sound :**
  - Continuous from 5.5 to 9 MHz by multiturn digital coder when the "sound" program is selected.
  - Recall of memorized sounds (16 possible) with "inc/dec" keys.

### INPUT

- **Impedance:** 75 Ohms.
- **Connector:** BNC Type.
- **Protection:** ± 50Vpp, 130 dBμV RF (3 Vrms).
- **Attenuator:** From 0 to 70 dB in 10 dB steps with automatic position.

### SPECTRUM

- From 46 to 150, or from 150 to 420, or from 420 to 860 or from 920 to 2150 MHz according to the selected frequency band.
- **Marker:** By grey line in the centre of the screen.

- **Expanded** :  $\pm 32$  MHz,  $\pm 16$  MHz,  $\pm 8$  MHz or  $\pm 4$  MHz on TV, and  $\pm 128$  MHz,  $\pm 64$  MHz,  $\pm 32$  MHz or  $\pm 16$  MHz on satellite, centred on the marker.

## MEASUREMENTS

- **Measurement Of Received Signal Strength**: By direct reading on the display or according to selection by bargraph on the second line of the display.
- Special program for digital carriers level measurement in analogical equivalence.
- **Range** : From 20 dB $\mu$ V (-87dBm) (30dB $\mu$ V in SAT. picture) to 120 dB $\mu$ V (+13dBm).
- **FI Band Width** : 4, 1 or 0.2 MHz to be selected.
- **Video Detection** : Peak
- **Dynamic Of Bargraph** : 30dB.
- **Unit** : dB $\mu$ V
- **Accuracy** :  $\pm 3$  dB.
- **Audio Indicator** : Frequency proportional to the strength of the received signal.
- Indication in case of defect pressing keys.
- Commutation of ranges of attenuator in automatic position.
- **Dynamic Of Audio Indicator** : 30dB.

## STANDARDS

- **FM** :
  - FM (radio FM) 87.5 to 108 MHz sound frequency modulation.
- **TV** :
  - L/L' (French system) positive picture modulation and 6.5 MHz sound amplitude modulation.
  - B/G (C.C.I.R. system) negative picture modulation and 5.5 MHz sound frequency modulation.
  - I (Great Britain) negative picture modulation and 6.0 MHz sound frequency modulation.
  - D/K/K' (O.I.R.T. system) negative picture modulation and 6.5 MHz sound frequency modulation.
  - M/N (U.S.A and Japan system ) negative picture modulation and 4.5 MHz sound frequency modulation.
- **Satellite** :
  - Ku positive picture modulation
  - C (C and S band) négative picture modulation.

## MONITOR

- **Cathode tube black/white 5.5"**.
- **FI Band Width**: 8 MHz on TV and 27 MHz on satellite.
- **Demodulator**: 500 mW in incorporated loudspeaker.
- **Audio Amplifier**: Cathode tube black/white 5.5".

## REMOTE POWER SUPPLY

- **0, 14V or 18V 450mA, protected against shorts-circuits.**
- **Indication of the selection by LED.**
- **On satellite**, possibility of modulation 22 KHz 600 mV signal.
- **DiSEqC™ 1.2 commands**: COMMITTED switches, UNCOMMITTED switches, Frequency, Analog Levels, Positioners.

## POWER SUPPLY

- **12V / 3.5Ah battery or external power supply 12V / 4A, for example AC mains**
- **Adaptor BS 15.3 (optional).**
- **Indication Of Battery Condition** :
  - Graph of charging on the display.
  - In battery mode, the monitor and receiver units power supply are automatically disconnected when instrument not in use for more than 3 minutes (STANDBY mode).
  - The power supply is completely disconnected when the battery voltage becomes too low.
- **Consumption**: 1.8 A (without LNB).
- **Battery Life**: About 1hour 20 minutes (without LNB).
- **Charging Time**: About 8 hours.

## MECHANICAL

- **Dimensions**: 240 X 140 X 270 mm.
- **Weight**: 5.8 Kg (with battery).

## ACCESSORIES

- Included free: Transport case, external power supply, measurement cord, lead for "car cigar-lighter".
- As an option: AC mains adaptor BS 15.3.