

# Specifications

## **Frequency:**

Range: 5 MHz - 870 MHz  
Accuracy:  $\pm 50$  ppm ( $20^{\circ}\text{C}$   $\pm 5^{\circ}\text{C}$ )  
Resolution: 10 kHz

## **Channel Type:**

Analog TV: TV  
Digital TV: QAM, QPSK  
FM channel: Single Frequency  
Dual Audio Channels

## **Level Measurement:**

Range: 30 dB $\mu$ V - 120 dB $\mu$ V  
(-30 dBmV to 60 dBmV)  
  
Accuracy:  
LEVEL: ( $> 35$  dB $\mu$ V or -25 dBmV)  
 $\pm 1.5$  dB ( $10^{\circ}\text{C}$  to  $30^{\circ}\text{C}$ )  
 $\pm 3$  dB ( $-10^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ )  
SCAN:  $\pm 2$  dB ( $10^{\circ}\text{C}$  to  $30^{\circ}\text{C}$ )  
  
Resolution: 0.1 dB  
Input Impedance: 75 Ohms (unbalanced, BNC or F type connector)

## **Channel Scan:**

Number of Channels: 150 channels max.  
Scanning speed: 2.75 channels / sec  
Scale: 1, 2, 5, 10 dB/div  
Zoom: 1X, 2X, 3X, 4X, 5X five levels of magnification or full Channel Plan scan.

## **Frequency spectrum:**

Bandwidth: 2.5 MHz, 6.25 MHz, 12.5 MHz, 25 MHz, 62.5 MHz, and full span  
Scale: 1, 2, 5, 10 dB/div

## **Carrier-noise ratio (C/N):**

Input range: Over 85 dB $\mu$ V (25 dBmV)  
Range: 20 - 50 dB max. (depending on input level)  
Accuracy:  $\pm 2$  dB  
Resolution: 0.1 dB

## **Digital Channel (Average) Power:**

Bandwidth: 0.28~9.99 MHz  
Center Frequency: 5 MHz (plus  $\frac{1}{2}$  channel bandwidth) to 870 MHz  
(minus  $\frac{1}{2}$  channel bandwidth)  
Digital modulation: QAM, QPSK

**Tilt measurement:**

Number of channels: 4 - 12  
Resolution: 0.1 dB

**Limit Test Parameters:**

Any of the following may be enabled:

Min video: 40 - 119 dB $\mu$ V (-20 to 59 dBmV)  
Max video: 41 - 120 dB $\mu$ V (-19 to 60 dBmV)  
Max  $\Delta$  video: 2 - 30 dB  
Min  $\Delta$  V/A: 0 - 15 dB  
Max  $\Delta$  V/A: 5 - 30 dB  
Max  $\Delta$  ADJ: 0 - 20 dB  
24HR Video Dev.: 0 - 20 dB

**Auto Test:**

Number Of Programs: 7 (Max)  
Tests: Level, Tilt, Spectrum, Limit, and 24HR Video Dev. (any or all tests may be used in an Auto Test program)  
Time Intervals: 1 to 23 hours  
Test Times: 1 to 10 times

**Trunk Voltage measurement:**

Input range: 1.2 - 100 VAC, 1.0 - 100 VDC  
Accuracy: +/-1 V  
Resolution 0.1 V

**Others:**

Storage: 32 Kilobytes memory  
Up to 35 complete Scan files (150 channels max.) or 25 complete Limit Test files (150 channels max.). Less if other files (Level, Tilt, Spectrum) are saved.  
Communication Port: RS 232C  
Printer: Canon, Epson, and HP  
Audio Output: Built-in speaker  
Dimensions: 218 mm x 95 mm x 49 mm (excluding belt clip and RF connector)  
Weight: 1.45 lbs (658 gm)  
Display: 128 x 128 LCD with backlight

**Power Supply:**

Battery: 3.6 V / 3.5 AH Ni-MH battery  
Charger: \* AC 100 - 240 V, 50/60 Hz, 1.8 A 7 VDC (max)  
\* Only the Trilithic Charger (P/N 0610165000) with internal charging circuitry may be used.  
Work Time: Average 6-8 hours (fully charged battery)  
Charge Time: Less than 3 hours