# SignalScout™

## SIGNAL LEVEL METER FOR OVER-THE-AIR AND CABLE TV


For Contractors and Technicians Installing Digital Antennas for Over-The-Air TV

Quickly Align Over-The-Air (OTA) TV Antennas for Cord Cutting

Measures Signal Level, SNR/MER, Tilt and Digital Errors

Measure and Test CATV Service Quality

Built in Compass for Locating Transmitter Stations

Audible Tone to Quickly Optimize Antenna Alignment

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## Why SignalScout?

New low cost Over-The-Air (OTA), digital TV antennas provide viewers free access to digital OTA Broadcast TV (ATSC A/53). Free use of major network broadcasts has made “Cord Cutting” a growing trend that allows users to reduce or eliminate high cost paid services.

Antenna costs are moderate but installation costs can be high without the proper test tools. Traditional rooftop and attic installations require numerous trips up and down a ladder to point the antenna and then go to the TV to determine if there is adequate signal for each channel.

The SignalScout allows for optimum antenna alignment as it is installed. The meter provides fast and accurate measurement of signal strength when tuning an antenna for a local TV channel. The SignalScout includes a built-in compass to quickly point the antenna at known transmitters reducing installation time.

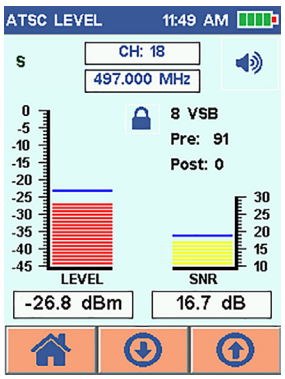
The unit also produces an audible tone that is proportional to the received signal strength allowing the user to get the best antenna alignment without looking at the display. The SignalScout includes a 10 dB amplifier for receiving weak signals from distant stations which indicates that an amplifier must be installed in the home system for certain TV stations.

The SignalScout can be used to measure a single channel or an entire channel plan. There is also a learn mode to develop a channel plan for a specific location. The meter measures Signal level, Signal to Noise Ratio (SNR)/ Modulation Error Ratio (MER), Tilt and provides Digital Error counts to verify the quality of the received signals. The SignalScout is an essential tool for not only installation but also ongoing maintenance and troubleshoot.

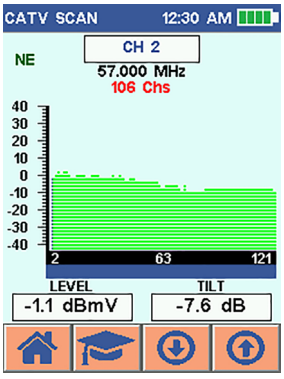
The SignalScout also provides CATV service verification. The meter measures all channels in the 44 - 1006MHz frequency range. The SignalScout is 64/256 QAM fully compliant and DOCSIS 3.1 (OFDM) signal level compatible. Noise return power is measured through a 42MHz low pass filter.

## SignalScout Specifications

**Over-The-Air (OTA) TV (ATSC)**
- Measures: Power, SNR/MER, Tilt, Digital Errors
- Channel Measurement Speed: 200 msec typical
- Frequency Range: 54 - 884 MHz
- Power Levels: -90 dBm - 0 dBm
- Amplifier: 0 dB or +10 dB




**CableTV (CATV)**
- Measures: Power, SNR/MER, Tilt, Digital Errors, Noise Return Power
- Channel Measurement Speed: 40 msec typical
- Frequency Range: 44 - 1006 MHz
- Power Levels: -40 dBmV - +50 dBmV
- Noise Return Power: 0 - 42 MHz Total
- Attenuator: -20 dB




## SignalScout Features

**Field Calibration**
- Uses known cable TV signal levels for Calibration in the field

**Full Channel Plan Scan**
- Measures:
  - OTA TV channels (6 MHz ATSC)
  - Cable TV Digital QAM channels
  - Cable TV Analog channel power
  - Cable TV DOCSIS 3.1 OFDM channel power
- Tilt auto-calculated while channel plan scanning
- Capable of learning a Channel Plan


**Mechanical Design**
- Rugged Weather Resistant Case
- Rechargeable Li-ion Battery
- 2.8" Color Touch Screen Interface

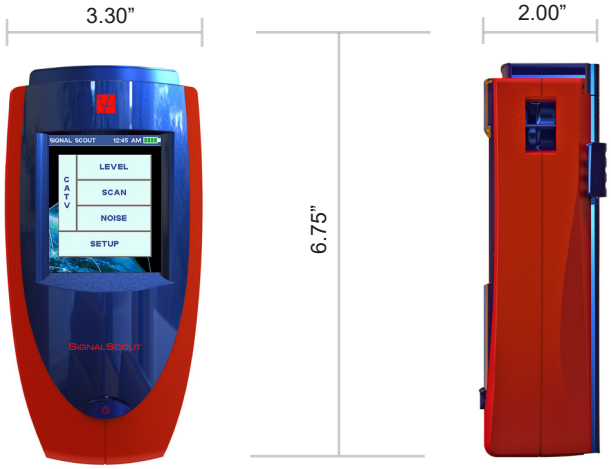
**Supported Standards:**
- ATSC A/53
- ITU-T J.83
  - Annex A (DVB-C) (Planned)
  - Annex B (US)

**SignalScout Includes:**
- SignalScout Tester
- AC to DC Voltage Adapter & Battery Charger
- USB Cable for Charging & Updating Firmware
- Carrying Case
- Strap (+2 Buckles)
- Quick Start Guide & Stylus

**MECHANICAL:**

| | |
|---|---|
| Dimensions | 6.75 in. x 3.3 in. x 2.0 in.<br>172 mm x 84 mm x 51 mm |
| Weight | 13.2 oz.; 387 grams |
| AC Power Adaptor | 110/240 VAC |

| | |
|---|---|
| Graphics Display | 320 x 240 x RGB, 2.8” |
| Interface | Color Touch Screen |
| Power | Li-Ion Battery Pack |
| Operating Temp | 32°F to 122°F / 0°C to 50°C |
| Storage Temp | 14°F to 131°F / -10°C to 55°C |

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