



**ComSONICS®**

# COMPANION

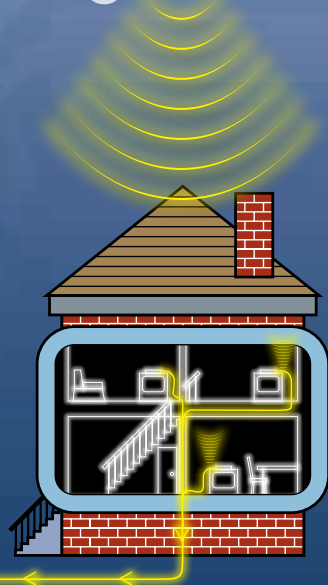
## Faster Installs, Lower Cost

### Now Supports Home Certification

- Auto Test + Results Capture
- Reverse Path Analysis
- Active\* Ingress Testing
- Analog, Digital & Broadband Measurements
- Multiple Channel Test Plans



### Active Ingress Testing!



*The perfect installer meter, with both active and passive ingress testing – uncovering the toughest ingress problems the first time out.*



\*Requires X-Ray Transmitter Device Sold Separately

# COMPANION

Compact size installer meter with analog and digital measurement functions  
plus active and passive ingress testing to uncover ingress problems the first time out.

## FEATURES:



FAVORITE CHANNELS

### Favorite Channel Mode

- Displays Five Preselected Channels
  - Analog Visual Carrier Level
  - Digital Multiplex Power
- Slope
- **Pass/Fail** Indication\*



SINGLE CHANNEL

### Single Channel Mode

- Analog
  - Video & Audio Levels
  - V-A Ratio
- Digital
  - Multiplex Power
  - 64 or 256 QAM Type\*
  - Flatness
  - MER
  - Pre-FEC BER and Post-FEC BER
- **Pass/Fail** Indication\*



REVERSE PATH

### Reverse Path Analysis

- Normal, Average, or Peak Hold Display
- Peak Level Indicator
- Frequency Range Zoom
- Level Range Shift
- **Pass/Fail** Indication\*



X-RAY INGRESS

### X-Ray Reverse Ingress

(Requires Optional X-Ray Transmitter)

- Active Ingress Test Signal
- Premise Shielding Integrity Measurement
- **Pass/Fail** Indication\*



THROUGHPUT

### Throughput Mode

- Downstream
  - Data Speed<sup>1</sup>
  - Level
  - Frequency
  - Modulation Type
- Upstream
  - Data Speed<sup>1</sup>
  - Level
  - Frequency
  - Rate
- **Pass/Fail** Indication\*
- <sup>1</sup> Provisioned Modem and Throughput Server Required



AUTO TEST

### AutoTest

- Function for Field Measurements and Internal Storage of Channel Data\*
- Unique Test Naming Feature
- **Pass/Fail** Indication\*
- On Screen Display of Failed Measurements
- Supports 30 unique Channel plans

\* Presets in Active Configuration Setting Downloaded from Companion PC Configuration Utility.

## SPECIFICATIONS:

### Analog Television

In accordance to procedures in NCTA Recommended Practices, Third Edition

|                           |   |
|---------------------------|---|
| <b>Tuning Range</b>       | 54 to 960 MHz   |
| <b>Signal Level Range</b> | -30 to +30 dBmV   |
| <b>Auto Level Display</b> | 5 dB Steps  |
| <b>Video Signal Level</b> | ± 2.0 dB accuracy   |
| <b>Audio Signal Level</b> | ± 2.0 dB accuracy   |
| <b>Channel Set</b>        | <ul style="list-style-type: none"> <li>- STD-EIA (Factory Default)</li> <li>- Fully Customize Channel/Frequency/Type with Companion PC Configuration Utility</li> <li>- Store Up to 30 Field Selectable Channel Sets in Unit</li> </ul> |
| <b>Favorite Channels</b>  | <ul style="list-style-type: none"> <li>- Five Channels per Channel Set</li> <li>- Preselected in Companion PC Configuration Utility</li> </ul>  |

### Digital Television

In accordance to procedures in NCTA Recommended Practices, Third Edition

|                              |                   |
|------------------------------|-------------------|
| <b>Power Level Range</b>     | -30 to +30 dBmV   |
| <b>Multiplex Power Level</b> | ± 2.0 dB accuracy |
| <b>Measurements Range</b>    | -20 to +20 dBmV   |
| <b>MER</b>                   | ± 2.0 dB accuracy |
| <b>Post-FEC BER</b>          | 10-4 to 10-9      |
| <b>Pre-FEC BER</b>           | 10-4 to 10-9      |

### High Speed Data

|                              |               |
|------------------------------|---------------|
| <b>Upstream Throughput</b>   | Up to 3 Mbps  |
| <b>Downstream Throughput</b> | Up to 15 Mbps |

### X-Ray Reverse Ingress

|                  |  |
|------------------|--|
| <b>D2I Range</b> | 10 - 100 dB (D2I = Dwelling Ingress Integrity) |
|------------------|--|

### Reverse Path Analysis

|                    |                               |
|--------------------|-------------------------------|
| <b>Freq. Range</b> | 5 - 42 MHz (65 MHz Europe)    |
| <b>Level Range</b> | -40 - +60dBmV (20 - 120 dBµv) |

### General

|                              |  |
|------------------------------|--|
| <b>Size</b>                  | 7" X 4.5" X 1.5"   |
| <b>Weight</b>                | 20 oz  |
| <b>Battery</b>               | Li-Ion rechargeable, 3.7V, 4800 mAh<br>nominal run time ≈ 4 hours<br>charge time ≈ overnight |
| <b>AC Charger</b>            | 5 VDC, 1A, mini USB  |
| <b>PC Utility Interface</b>  | mini USB   |
| <b>Operating Temperature</b> | 0°F to 120°F (-18°C to 49°C)   |
| <b>Storage Temperature</b>   | -20°F to 150°F (-29°C to 66°C)   |
| <b>Humidity</b>              | 0 ~ 95% non-condensing   |