

# XR-TS2-01

Tuner Module for use with  
XR-3 Modular Test Instrument base unit

## Satellite Signal Level Meter Module For North American DBS & Broadcast TVRO

### FEATURES

- Compatible with XR-3 Modular Test Instrument
- Friendly user interface
- Satellite ID by "align-to-lock" or "automatic scan"
- ID multi-lock algorithm eliminates false positives
- Powers LNBS and multi-switches
- Use for L, C, X, Ku, or Ka band applications
- High sensitivity assures alignment optimization
- Geo-sensitive "Field Guide" software database stores all compatible satellites and transponders per global region
- Program and store up to 256 custom transponders
- Controls multi-LNBS/switches with 22kHz DiSEqC tone
- Manually tune to custom transponders using front panel keypad
- Audible tone for signal lock or peak
- Store measurements for Proof-of-performance reporting
- "Limit Scan" Pass/Fail for key transponders
- Displays antenna settings (AZ / EL / Skew) based on user's postal code or latitude and longitude coordinates
- Field replaceable type F barrel connectors
- Fast system boot-up time in less than 5 seconds

### MEASUREMENTS

- Demodulates DVB-S, DSS / DIRECTV Legacy, Digicipher 2, Turbo FEC, & DVB-S2 (QPSK & 8PSK, CCM) signals
- Signal Level (dBm, dBmV, or dBμV) with present and peak bar graph
- Signal Quality (IRD, C/N, Eb/No, or Es/No)
- BER (Pre FEC / Viterbi & Post FEC / Reed Solomon) for DVB-S, DSS / DIRECTV Legacy, and Digicipher 2 signals
- Bad blocks, corrected blocks, and frame errors for DVB-S2 and Turbo FEC signals
- Voltage output of IRD / IDU (29V max)
- Current draw of LNB
- LNB frequency deviation (LNB LO drift estimate)
- Symbol Rate error
- Spectrum Screen (frequency on x-axis, amplitude on y-axis)
- Constellation Screen (I and Q demodulator values)

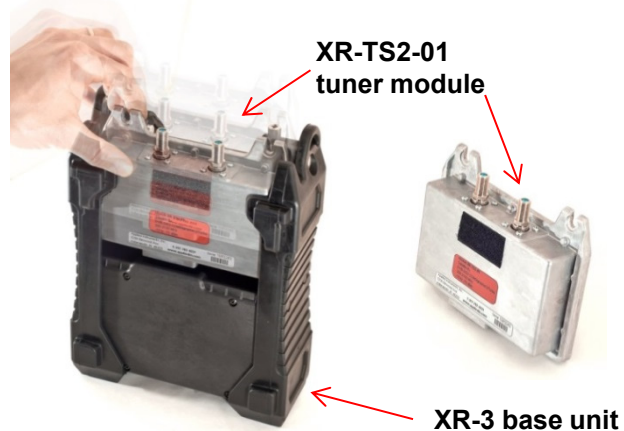
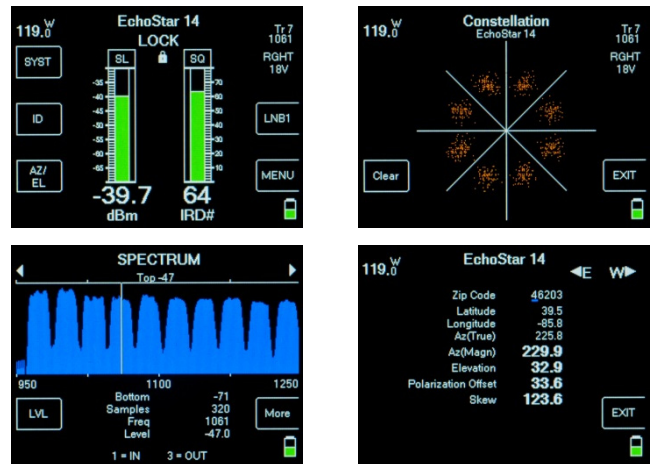
### STANDARD ACCESSORIES

- Quick Start Guide

### SPECIFICATIONS

Frequency Range.....250-2150 MHz  
Tuning Resolution.....4 kHz  
Signal Level Range.... -75 to -15 dBm (+34 to +94 dBμV)  
RF Level Accuracy.....+/- 2 dB typical, 3 dB max  
Signal Lock Formats..... DVB-S (QPSK), Digicipher 2 (QPSK & OQPSK),  
DVB-S2 (QPSK & 8PSK, CCM),  
DSS / DIRECTV Legacy (QPSK), Turbo (QPSK & 8PSK)  
Impedance.....75 Ohm  
LNB Power.....13VDC for V/R, 18VDC for H/L  
21VDC for DIRECTV SWiM, 29VDC  
Switch Control .....22 kHz, DiSEqC  
RF Connector .....Type F barrel, field replaceable  
Warranty.....12 month limited

*Specifications are subject to change without notice.*



### Manufactured by:



Applied Instruments, Inc.

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