

Advanced Installation Meter



- ◆ **DIRECTV-specific satellite installation meter**
- ◆ **Easy to read display and keypad**
- ◆ **On-screen instructions guide technician through installation, EIV and troubleshooting**
- ◆ **Point all DIRECTV ODU's**
- ◆ **Perform EIV at roof or anywhere in distribution network**
- ◆ **Tune any DIRECTV transponder - National and local spot beams**
- ◆ **Power all LNBs including SL3S and SL5S**
- ◆ **Measure cable resistance**
- ◆ **Measure in-line current, voltage, 22-kHz tone and DiSEqC messages**

Efficient, Rugged, and Versatile

The AIM was developed by DIRECTV, Trilithic and Indesign to provide customized features for installing and troubleshooting DIRECTV satellite receiver systems. The AIM is a rugged meter suitable for both indoor and outdoor use. A fully charged AIM can be used for all aspects of installation and troubleshooting in as many as six single-family homes.

The AIM's large display and keypad make it easy to navigate to the many features of the meter. On-screen

directions guide the technician through ODU installation, extended installation verification, and other troubleshooting tests. A USB port is provided to transfer data from the AIM to a flash drive, and for upgrading the AIM firmware.

Extended Installation Verification (EIV)

EIV can be performed right after ODU alignment while the technician is on the roof to quickly confirm that pointing is satisfactory. This gives the installer confidence that IRDs installed in the home will pass IV. EIV can also be used as a troubleshooting tool to

pinpoint problems anywhere within a distribution network.

Troubleshooting

Several additional troubleshooting features can be used to quickly identify faulty equipment in an installation. The AIM allows testing of individual cable runs in the distribution network, tuning to any DIRECTV satellite transponder, testing communications between the SWiM and the IRD, measuring in-line voltage, current and tone, and performing a complete transponder survey.

Advanced Installation Meter



Sample AIM Screens

ODU Alignment

Pointing screens provide the technician with all the information needed to quickly fine tune alignment.

In the **Fine Adjustment** (Dithering) screens, the technician can set a reference point on one side of the peak and the AIM provides an alert when the same point is reached on the other side.

Turns Calculator

The **Turns Calculator** function helps the technician find the optimum ODU pointing.

The technician enters the number of turns between reference points on either side of the peak and the AIM calculates how many turns to go back to reach peak.

Extended Installation Verification

EIV can be performed right after ODU alignment to ensure a quality install. The technician can see immediately if repointing is necessary.

The EIV Detail screen shows the technician which of the four measured parameters failed: power, Es/No, frequency offset or demodulator Lock.

Sat Tune allows the technician to view individual DIRECTV transponders. All National transponders and local spot transponders are viewable.

Signal power, Es/No, Frequency offset and Lock status are displayed.

Satellite Tune

SPECIFICATIONS

Frequency Range	250 - 2150 MHz
Signal Level Range	-10 to -69 dBm
RF Input Conector	Replaceable F connector (2)
Input Impedance	75 Ω
LNB Power Supply	13 Volts/18 Volts
SWiM LNB Power Supply	21 Volts
Communications	USB flash drive
Battery	8-cell, 9.6 Volt, 3.8 AH rechargeable NiMH
Operating Temperature	-20° to +125° F (-28.9° to +51.7° C)
Storage Temperature	-40° to +150° F (-40.0° to +65.6° C)
Battery Charging Temp.	40° to 100° F (4.4° to 37.8° C)
Display	240 x 160 pixel, transfective backlit LCD
Weight	2.54 lbs. (1150 g)
Dimensions (H x W x D)	244 x 118 x 59 mm 9.6 x 4.6 x 2.3

STANDARD ACCESSORIES

Carrying case
P/N 2131417000

100 to 240 VAC power adapter
P/N 0610177000

12 VAC vehicle power adapter
P/N 2072097000

Battery pack
P/N 0090056000

F connector
P/N 0200690000

25 cable test load
P/N 2011379000

512 MB USB flash drive
(contains AIM User's Manual)
P/N 0930157000