

# TR-3

## Installer's Signal Level Meter

- 46 MHz to 1 GHz Frequency Coverage
- 6 Favorite Channels
- Automatic Tilt Calculation
- Analog or Digital Power Readings

## Overview

The XFTP TR-3™ is an economical solution ideal for your basic HFC installation needs.

This simple to use meter provides fast and efficient measurements including; signal level measurement, tilt measurement to balance your system, and it features six Favorite channels and an extended battery life.

Weighing less than one pound, this simple to use, rugged meter has a durable plastic case and is convenient for one-hand operation.

The TR-3 is ready to use with the standard NCTA channel plan and includes a protective rubber bumper, carrying strap, charger, user's manual, a spare F-type connector, and a one year warranty.

### MEASUREMENTS

Digital channels and favorite channels may be set easily with the TR-3 or with optional Channel Editor Software.

*Single channel mode* displays the video or digital power level and frequency of the selected channel in the channel plan as well as  $\Delta V/A$  for Analog channels. For digital channels QAM is displayed for channels that are designated as Digital channels in the channel plan.



*Single frequency mode* displays the frequency and level of the audio carrier for an analog channel, or the center frequency and level of a digital channel. The TR-3 can be manually tuned to any frequency (46 MHz to 1 GHz) in steps of 50 kHz, 100 kHz, 1 MHz, 10 MHz, or 100 MHz.

*Favorites mode* displays the video or digital power levels of any six selected channels in the plan.

*Tilt mode* displays the video or digital power level of the lowest channel in the Favorites mode and the level difference (tilt) between the lowest and highest favorite channels.

## OPTIONAL TR-3 CHANNEL EDITOR SOFTWARE

The optional TR-3 Channel Editor software includes standard international channel plans and allows the user to configure, save, and download channel plans to the TR-3.

The TR-3 Channel Editor software permits configuration of channel plan parameters, including:

- Analog or digital channel frequency
- Favorite/tilt channels
- Digital channel measurement bandwidth
- Measurement units (dBmV or dBµV)

## MINIMUM REQUIREMENTS:

- 200 MHz Pentium® processor
- 64 MB RAM with 100 MB of free hard disk space
- Windows® 2000 or newer operating system; Windows Server 2000 or newer
- Serial (DB-9) or USB 2.0 port
- TR-3 data cable (included with Channel Editor software)

## Specifications

Frequency	Range: 46 MHz to 1 GHz Resolution: 50 KHz
Level Measurement	Range: -30 to +60 dBmV (analog level) -20 to +50 dBmV (digital channel power) Accuracy: ±2.0 dB @ 20°C ± 5° (@ 68°F ± 9°) Resolution: 0.5 dB
Power	3.6 V / 2.5 Ah rechargeable NiMH battery 4+ hours working time (without LCD backlight) 12 to 14 hour charge time
Operational Temperature	-10° to +50°C (14° to 122°F)
Display	Backlit LCD
Weight	0.68 lb (308 g)
Dimensions	6.65" x 2.80" x 1.61" (169mm x 71mm x 41mm)

## INCLUDES THE FOLLOWING:

- Protective rubber bumper
- Shoulder strap
- AC battery charger
- Nickel-metal hydride battery
- Spare F-type connector
- User's manual

## RELATED PRODUCTS:

- TR-3 Channel Editor software  
P/N 0930156000
- TR-3 data cable (included with channel editor software)  
P/N 2072105000
- Carrying case with belt clip  
P/N 2131196000
- I/O-15 precision RF coaxial test cable  
P/N 2071527048
- TR-3 international adapter kit (includes AC plugs for EU, UK, and Australia, and 2 BNC RF connectors)  
P/N 2072132000
- TR-3 vehicle power adapter  
P/N 2072139000