



FLEXtest • all frequency portable measurement system

BASE UNIT

#FLEXtest-baseXR3

portable main unit with power supply
with keypad & display (add plug-in module)

FLEXtest-BaseXR3

- Rugged
- Adaptable
- Economically Efficient

The FLEXtest-BaseXR3 is a revolutionary test instrument platform. The base unit is a rugged chassis, display, and portable power supply that accepts easily swappable modules for test signal measurement purposes.

The FLEXtest-BaseXR3 is economically efficient because it allows you to choose only the test modules that your application requires. In the future as your testing needs change, you'll need only a new module, not an entire instrument.

Test modules that "slide and click" into the FLEXtest-BaseXR3 available now include DBS satellite, VSAT satellite, and cable TV / off-air broadcast. Other modules will follow.

The FLEXtest-BaseXR3 platform is ideal for installers and private cable operators that demand fast, easy signal measurements today and in the future.

Modular system provides a base unit with interchangeable frequency measurement modules. The base unit is a rugged chassis, display, and portable power supply that accepts easily swappable modules for test signal measurement purposes.

Efficient because it allows you to choose only the test modules that your application requires. In the future as your testing needs change, you'll need only a new module, not an entire instrument. Test modules that "slide & click" into the base unit include: North American satellite, VSAT, and off-air/Cable TV.



Add plug-in module:

- Choose desired measurement capability module**
- FLEXtest-SAT** Plug-in measures north american satellites, DBS and broadcast TVRO (50-2150 Mhz)
 - FLEXtest-VSAT** Plug-in for measurement of international sats & VSAT (900 to 2150 Mhz)
 - FLEXtest-AIR** Plug-in measures cable TV and off-air broadcast of TV & radio (5 to 1000 Mhz)



Modular Test Instrument

GENERAL FEATURES

- Durable case with rubber shock guards
- Color graphic LCD screen, sunlight readable display
- Glow-in-the-dark numeric keypad with arrow key controls
- Rechargeable / Easily Replaceable Li-Ion battery
- USB computer interface for firmware updates
- Operates while charging via AC
- Quick charge battery with universal AC or vehicle 12 VDC
- Modular design for longer life and more flexibility
- Accepts various easily-swappable modules (sold separately)

SPECIFICATIONS

Battery.....rechargeable Li-Ion, 4400mAh 12.6V Max
 Run time/charge.....4 hours for a single LNA (depends on LNA current draw)
 Universal AC charger.....100 to 240 VAC, 50/60 Hz fast charge and then trickle
 Vehicle charger.....12VDC
 Computer Interface.....USB (Ethernet optional)
 Size/Weight.....9"W x 7"H x 2.5"D / 3.2 lbs. (without rubber guards) 22.9cm x 17.8cm x 6.4cm / 1452 g
 Operating Temperature Range.....-20°F to 120°F (-29°C to 49°C)
 Battery Charge Temperature Range..41°F to 100°F (5°C to 38°C)
 Warranty.....12 month limited
Specifications subject to change without notice.

STANDARD ACCESSORIES

- Shoulder strap
- Cordura protective flap
- Universal AC switching power supply with line cord (100 VAC to 240 VAC Transformer)
- Automobile cigarette-lighter adapter battery charge cord (12V DC)
- PC data transfer cable (USB)
- Quick Start Guide

OPTIONAL ACCESSORIES

- Hard shell protective carrying case
- Desktop kickstand



Modules Available

Module Part Number	Description	Application
FLEXtest-SAT	Satellite Meter North American DBS / Broadcast TVRO 250-2150 MHz	DISH, DIRECTV, Bell TV, Shaw Direct, and more
FLEXtest-VSAT	Satellite Meter VSAT, Broadcast TVRO, International DTH 900-2150 MHz	iDirect, Hughes, and more
FLEXtest-AIR	Signal Meter - Cable & Off-Air (J.83B) / VHF / UHF 5-1000 MHz	UHF Off-Air, CATV, SMATV (i.e. DISH Smartbox, Blonder Tongue headends)



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

Tuner Module for use with
FLEXtest-BaseXR3 Modular
Test Instrument base unit

FEATURES

- Compatible with FLEXtest-BaseXR3 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, & DVB-S2 (CCM, ACM, & VCM) signals
- Signal Level (dBm, dBmV, or dBμV) with present and peak bar graph
- Signal Quality (IRD, C/N, Eb/No, or Es/No)
- Pre-FEC & Post-FEC BER
- PER (Packet Error Rate)
- 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)

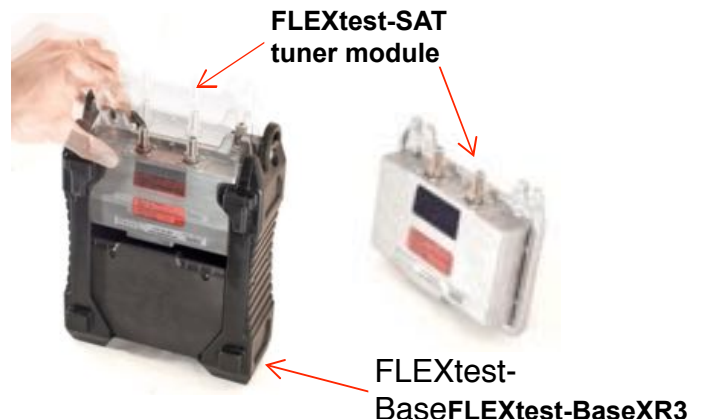
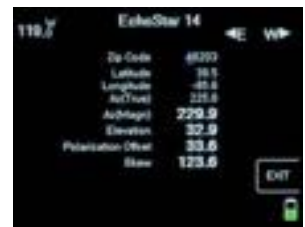
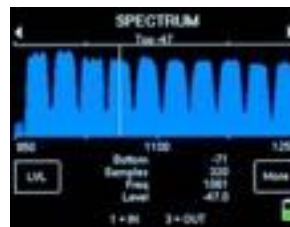
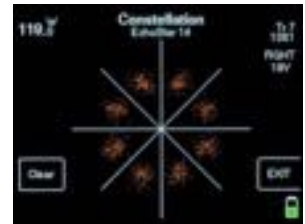
STANDARD ACCESSORIES

- 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 Control22 kHz, DiSEqC
 RF ConnectorType F barrel, field replaceable
 Warranty.....12 month limited

Specifications are subject to change without notice.





Digital and Analog CATV / VHF / UHF Off-Air Signal Level Meter Module

FLEXtest-BaseXR3 Modular Test Instrument base unit

GENERAL FEATURES

- Works with the FLEXtest-BaseXR3 Modular Test Instrument base unit
- Friendly user interface
- Tune by frequency or tune by channel number
- Field replaceable type F-female barrel connector
- Fast system boot-up time in less than 5 seconds
- Compatible with digital and analog signals
- Store measurements for Proof-of-Performance
- Programmable Pass/Fail limit scan for all channels
- Quick scan of all channels
- Easily create new custom channel plans or use standard base plans
- Spectrum Screen (frequency on x-axis, amplitude on y-axis)
- Constellation Screen (I and Q demodulator values)

VHF / UHF OFF-AIR FEATURES

- Supplies Pre-Amp / LNA power
- Simultaneously displays signal level and quality of multiple channels
- Displays measurements for analog and digital signals
- High signal sensitivity assures Off-Air antenna alignment optimization
- Manually tunes to custom channels
- Audible tone for signal lock and peak

CATV FEATURES

- Compatible with analog and digital CATV signals
- Frequency range from 5 MHz to 1 GHz
- Tilt measurement

MMDS FEATURES

- Powers frequency block down-converters

MEASUREMENTS

- Digital and Analog Signal Level (dBm, dBmV, or dBμV) with present and peak bar graph
- Analog Signal Quality (C/N)
- Digital Signal Quality (MER & BER)
- Locks on 8VSB (ATSC A/53) UHF digital Off-Air signals
- Locks on 64QAM and 256QAM (ITU-T J.83, Annex B) CATV signals
- Tilt
- Analog Video and Audio Carrier Measurements (NTSC, PAL, SECAM)
- Current draw of off-air antenna pre-amp / LNB

SPECIFICATIONS

Frequency Range.....	5-1000 MHz
Tuning Resolution.....	Standard channel spacing or 125 kHz increments
Signal Level Range.....	-40 to +60 dBmV
RF Level Accuracy.....	+/- 1.5 dB typical
Compatible Analog Signal Formats.....	NTSC, PAL, SECAM
Compatible Digital Signal Lock Formats.....	8VSB (ATSC A/53) 64QAM, 256QAM (ITU-T J.83, Annex B)
Nominal Impedance.....	75 Ohm
LNA/Pre-Amp Power.....	13,18 VDC
RF Connector	Type F-female barrel, field replaceable
Warranty.....	12 month limited

Specifications subject to change without notice.

STANDARD ACCESSORIES

- Quick Start Guide

