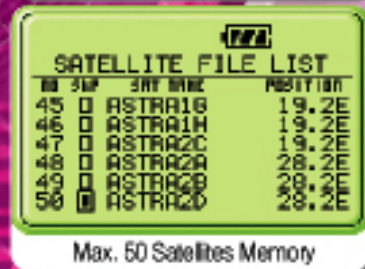
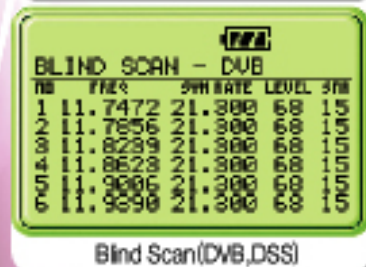
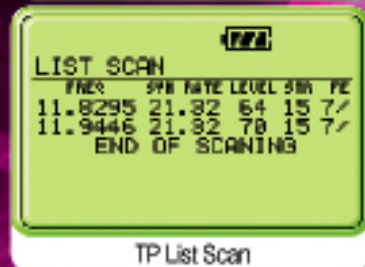
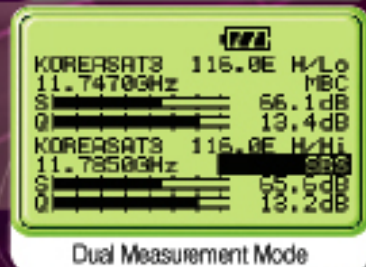
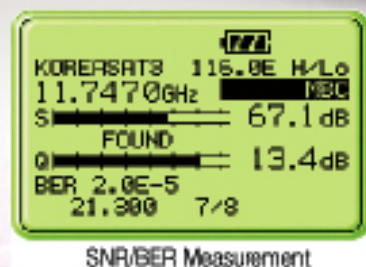


Auto Satellite Identifier for DVB-S & DSS!

Digital Satellite Meter with Spectrum

1650S

- Spectrum Analyzer(with Rotator Control)
- Identifies Max. 50 Satellites Automatically
- Pre-BER, SNR
- Level Measurement for Analog/Digital Sat.
- Peak Level Detection with Beep Sound
- Single/Dual Satellite(s) Measurement Mode
- TP List Scan/Blind Scan
- Single/Universal LNB Setups
- Cloning Mode
- DiSeqC 1.0/1.1/2.0
- Easy to upgrade new satellite information via PC/Internet (without any special software)
- Ultra Portable Type(650g)





■ Digital Satellite Meter with Spectrum **1650S**

ANALOG SAT

- Frequency Range : 950 ~ 2,150MHz
- Measurement Units : dB(dB_μV, dBmV, dBm) or %
- Input Impedance : 75Ω(F type connector)
- Frequency Resolution : 0.1MHz
- Level Measurement Range : 20dB_μV (-40dBmV) ~ 105dB_μV(+45dBmV)
- Level Measurement Resolution : 0.1dB
- Level Measurement Accuracy : ±2.0dB(5 ~ 50°C)

DIGITAL SAT(DVB-S & DSS)

- Level Measurement Range : 20dB_μV (-40dBmV) ~ 105dB_μV(+45dBmV)
- Lock Range : 30dB_μV (-30dBmV) ~ 105dB_μV(+45dBmV)
- QPSK Signal Parameters
 - Symbol Rate : 1~45Mpsps
 - Code Rate: 1/2, 2/3, 3/4, 5/6, 6/7, 7/8
 - BER : 2 X 10⁻³ ~ 2 X 10⁻⁶(or 10⁻⁷)
 - SNR : 3 ~ 15dB
 - Spectrum Inversion : Auto
 - Auto Scanning Mode : Blind Symbol Rate, Code Rate Acquisition

SPECTRUM ANALYZER

- Level Measurement Range : 30dB_μV(-30dBmV) ~ 105dB_μV(+45dBmV)
- Span : 20M, 240M, 600M, FULL
- Level display for the selected frequency by the user
- DiSEqC positioner control with spectrum analyzer

STANDARD ACCESSORIES

- Ni-MH Rechargeable Batteries : 7.2V 2,400MAH
- "F" type connector(1ea.)
- Carrying Bag/Shoulder Strap
- DC Adapter
- Users Manual

OTHERS

- LNB Feed
 - Output Voltage: 13V, 15V, 18V - ±1V
 - LNB Supply Current : Max. 450mA
 - LNB Short Circuit Protection : Max. 500mA
 - Signal Output : 22KHz, DiSEqC
- Peak Level Detection with Beep Sound
- Dual Satellites Measurement Mode with Auto LNB Control
- Auto Time-Out
- LCD Backlight Contrast Control
- Satellite Memory Function
 - Max. 50 Satellites
 - Max. 70 Transponders per Satellite
 - Max. 1,500 Transponders
- RS232C Standard Serial Interface Port
 - Max. new 50 Satellites can be upgraded using Hyperterminal Program via PC/Internet
 - No need a special software
 - Data Cloning Function
- Power Supply
 - Built-in Ni-MH rechargeable batteries : 7.2V(1.2V X 6), 2,400MAH
 - Battery Charge Indication
 - Battery run time with full charge
 - * Full charge : over 8~10hours.
 - * From 1.5 to 2.5hours (Depending on LNB consumption & Backlight display)
 - * Up to max. 5hours(without LNB feed)
 - Main Adapter : 230V:12V 500mA (changeable according to country)
- Operating Circumstances
 - Useable Temperature : 5~50°C
- Mechanical Features
 - Dimension : 94m WX 47mm D X 190mm H
 - Weight : 650g(including batteries)
 - LCD Graphic Display with Backlight : 128 X 64 dot matrix
 - Casing Structure : shock-proof plastic(ABS)

OPTIONAL ACCESSORIES

- RS-232C cable
- Car Cigarette Lighter Adapter Cable

*Specifications can be changed without prior notice.

TELEMANN

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■ Authorized Dealer