



The Echo is a handheld vector impedance and spectrum analyzer with FDR for measuring antennas, networks and cables. The Echo has the capability of providing digital measurements and graphical sweep displays of impedance, RF power gain or cable quality. The Echo's testing functionality combined with its 100 KHz to 1.0 GHz or 100 KHz to 2.5 GHz frequency ranges makes it a versatile tool for numerous service applications.

The Echo PC Vision™ software application, included with the VIA Echo, provides the user with the capability of remotely operating the VIA Echo through a USB port while viewing real time results or stored data on a PC. PC Vision provides color Cartesian and Smith Charts of vector plot data. The PC Vision software makes the capture, storage and printing of documentation and reports easy.

Specifications

- Frequency range 100 KHz to 1.0 GHz (1000, 1000SF & MRI)
100kHz to 2.5GHz (2500)
- Tuning/display resolution 1 KHz up to 1.1 GHz, 10 KHz for
~ 1.1GHz-2.5GHz
- Input power range +20/-60dBm
- FDR cable length 35 to >10Kft (10 to>3300m)
- Measurement speed ~3 sweeps / second
- Frequency display width 250 points x N x resolution (N=intiger)
- Phase angle plotting scales +/- 15 to +/- 180 degrees
- Impedance range 2 to 2000 Ohms
- Impedance plotting scales 0 to 50 Ohms min, 0 to 2000 Ohms max
- Impedance formats Resistance, reactance, Z, Z angle, SWR, return loss , S11 vector
- Gain formats Log, linear, phase and group delay
- Harmonic and spurious > 30dB below fundamental
- Output power ~ +0dBm @ 50 Ohms
- Power requirements 10-20 VDC @ 500 mA. minimum or
8 AA(Alkaline or NiMH or Nicd)
- Antenna connectors "N" or SMA
- Size 8.5"x4.3"x2.25" (216x109x57 mm)
- Weight 2 lbs 3 oz (1Kg) with case and batteries

Features

- Simultaneously view two separate plots with different scales
- Automatic calibration and self-test
- Large numeric display in CW mode
- S11 and S21 test ports
- Cable/fixture nulling
- 250 memory slots for both plot storage and setup data
- Echo **PC Vision** software included
 - Real time display of plots on PC
 - Smith chart display
 - EASY uploads into PC
- Quarter VGA backlit LCD
- Auditory cues for non-visual tuning
- Spectrum Analyzer and FDR (1000SF & 2500)
- MRI version is non-magnetic
- Lightweight and portable
- Internal NiMH or NiCd recharger
- USB communication to PC

Models

| | |
|------------------------|-----------|
| VIA Echo 1000 | 6025-5100 |
| VIA Echo 1000 SF | 6025-5150 |
| VIA Echo 2500 | 6025-5250 |
| VIA Echo MRI | 6025-5350 |

Includes

| | |
|---------------------------------|-----------|
| PC Vision software | 6014-1220 |
| USB cable | 0070-1205 |
| AC adaptor, 100-240 VAC | 5001-0202 |
| Soft equipment case | 6015-1002 |
| Belt case | 5001-1002 |
| Calibration load set..... | 6015-1301 |
| 8 AA NiMH batteries | 0010-0218 |



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