



Telephone Line Analyzer Detector



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Features

- Digital Demodulation to confirm that the telephone line is not passing audio (demodulation code is upgrade able for new phone systems, expected to cover 80% of world's PBX/ACD phone systems)
- Frequency Domain Reflectometer (FDR) similar to TDR to check for taps on the line
- NLJD Line Trace Probe for verifying electronic taps and tracing wires to locate electronics
- Audio Oscilloscope with active input (20Hz to 20KHz)
- High Gain Audio Amplifier (20Hz to 20KHz)
- Digital Multimeter tests voltage, current, resistance & capacitance
- Bias Generator +-80 VDC, direct digital control to use with Audio Amplifier, NLJD, and FDR.
- Automatic Internal Pair Switching automatically performs tests on all pair combinations
- RF Broadband Detector tests lines for RF up to 8GHz
- Multi-Test Database System performs multiple tests at once on all pair combinations, storing data in a database for comparison against other lines and historical comparison







Technical Specifications

Control System

Primary Computer: 32bit RISC processor, 520MHz Internal Memory: 64MB SDRAM (OS), 64MB Flash

Digital I/O

Network: 10/100 Ethernet Controller

USB: USB Host (B type) for connection to PC; USB Device (A

type)

Analog I/O

Headphone Output: 3.5mm Stereo connector Microphone Input: 3.5mm Mono input

User Interface

Hard Keys: 12 Soft Menu Keys, 5 Button Quadrant Navigation

Encoder: High-Resolution Optical Encoder

Test Inputs: Dual MOD8: Supports 2, 4, 6, & 8 wire Modular Phone

Jacks

RF System

Spectrum Analyzer: Dual Conversion, Super-Heterodyne Receiver 10-85mhz

Broadband Detector: RF SMB Input: 100 kHz to 8GHz

Digital Multimeter

Range: Quick Response Auto-Ranging, 500msec Sample Rate

AC/DC Volts: 0 to 400VDC, 0 to 250VAC

Bias Generator

Optically Isolated, Dir: High voltage DAC

Audio

Optically Isolated: Wideband Audio path optically isolates user from

connection

Bandwidth: 10MHz at nominal gain of 40dB

Power System

AC Input: 100-240V, 50-60Hz

Removable Battery: Rechargeable Lithium ion, 4-6 hours of run time

Mechanical

Dimensions: 24.1cm x 30.5cm x 5.0cm

Weight with Battery: 2.7 kg

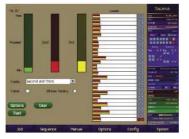


Software

Digital PBX Demodulation Includes Digital Decoding capabilities for approx 80% of all digital phone systems. Upgradeable downloads



NLJD Line Trace Capability
NLJD Line Tracer Probe not only traces lines, it also detects any electronic devices on the line-tape



Frequency Domain Reflectometer Similar to traditional TDR, however, no blind spots and more consistent resolution











If you would like further Information about ELAMAN, or would like to discuss a specific requirement or project, please contact us at:

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