

Telephone and Line Analyzer (700024)



The new Telephone and Line Analyzer provides a complete integrated suite of tools to analyze, inspect, and test digital telephone lines (and other wiring) for taps and other eavesdropping devices.

FEATURES:

- **Digital Demodulation** -to confirm that the telephone line is not passing audio (demodulation code is upgradeable for new phone systems, expected to cover almost all types 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 20 KHz).
- **Digital Multi-meter** - tests voltage, current, resistance & capacitance.
- **Automatic Internal Pair** switching automatically performs tests on all pair combinations.
- **RF Broadband Detector** - tests lines for RF up to 8GHz.
- **Bias Generator** - +-80 VDC, direct digital control.
- **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.

NEW TECHNOLOGIES OF TESTING:

Digital PBX Demodulation	NLJD Line Trace Capability	Frequency Domain Reflectometer
Includes digital decoding capabilities for approximately 80% of the world's digital phone systems. This is upgradeable (via computer interface) as new phone systems become available.	NLJD Line Tracer Probe not only traces lines, it also detects any electronic devices on the line, locating hidden taps or other eavesdropping devices.	Similar to traditional TDR (Time Domain Reflectometer) however, no blind spots and more consistent resolution.

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TECHNICAL SPECIFICATIONS:

Control System	<ul style="list-style-type: none"> - Primary Computer: 32bit RISC processor, 520MHz - Internal Memory: 64MB SDRAM (OS), 64MB Flash - External Memory: Compact Flash to 2GB
Digital I/O	<ul style="list-style-type: none"> - Network: 10/100 Ethernet Controller - USB: USB Host (B type) for connection to PC; USB Device (A type) supports external keyboard, mouse, and "thumb" drive use
Analog I/O	<ul style="list-style-type: none"> - Headphone Output: 3.5mm Mono connector - Microphone Input: 3.5mm Mono input
User Interface	<ul style="list-style-type: none"> - Hard Keys: 6 Soft Menu Keys, 5 Button Quadrant Navigation & other dedicated keys - Encoder: High-Resolution Optical Encoder - Integrated Touch Screen with Stylus - Test Inputs: <ul style="list-style-type: none"> · Dual MOD8: Supports 2, 4, 6, & 8 wire Modular Phone Jacks · Banana Type: Standard sleeved sockets: Ring, Tip, and Earth · SMB RF Input: RF/Antenna Connection to 8 GHz Broadband Detector · Expansion Port: Supports communication & measurement for use with future accessories
RF System	<ul style="list-style-type: none"> · Spectrum Analyzer: <ul style="list-style-type: none"> - Dual Conversion, Super-Heterodyne Receiver - Frequency Range: 10kHz to 85MHz - Sweep Time: 2 Seconds - Step Size: 1kHz - Bandwidth: 18kHz - Sensitivity: -100dBm · Broadband Detector: <ul style="list-style-type: none"> - RF SMB Input: 100kHz to 8GHz - Balanced Line Test: 100kHz to 600MHz - Sensitivity: -65dBm
Digital Multimeter	<ul style="list-style-type: none"> - Range: Quick Response Auto-Ranging, 500msec Sample Rate - AC/DC Volts: 0 to 400VDC, 0 to 250VAC - Resistance: 0 to 40 MegOhm - Capacitance: 4nF to 400µF
Bias Generator	<ul style="list-style-type: none"> - Optically Isolated, Direct Digital Control: High voltage DAC - Output Ceiling: + - 80 VDC - Modulation: Sine, Ramp, Triangle Sawtooth, & Square waves up to 300Hz.
Audio	<ul style="list-style-type: none"> - Optically Isolated: Wideband Audio path optically isolates user from connection - Bandwidth: 10MHz at nominal gain of 60dB - Gain: Up to 80dB total system gain - AGC: Digitally Controlled Automatic Gain - Filter: Analog Voice band filter (300Hz to 3kHz)

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