

**PROPRIETARY**

**DPA-7000**

**DIGITAL PHONE LINE ANALYZER**

PATENTS PENDING

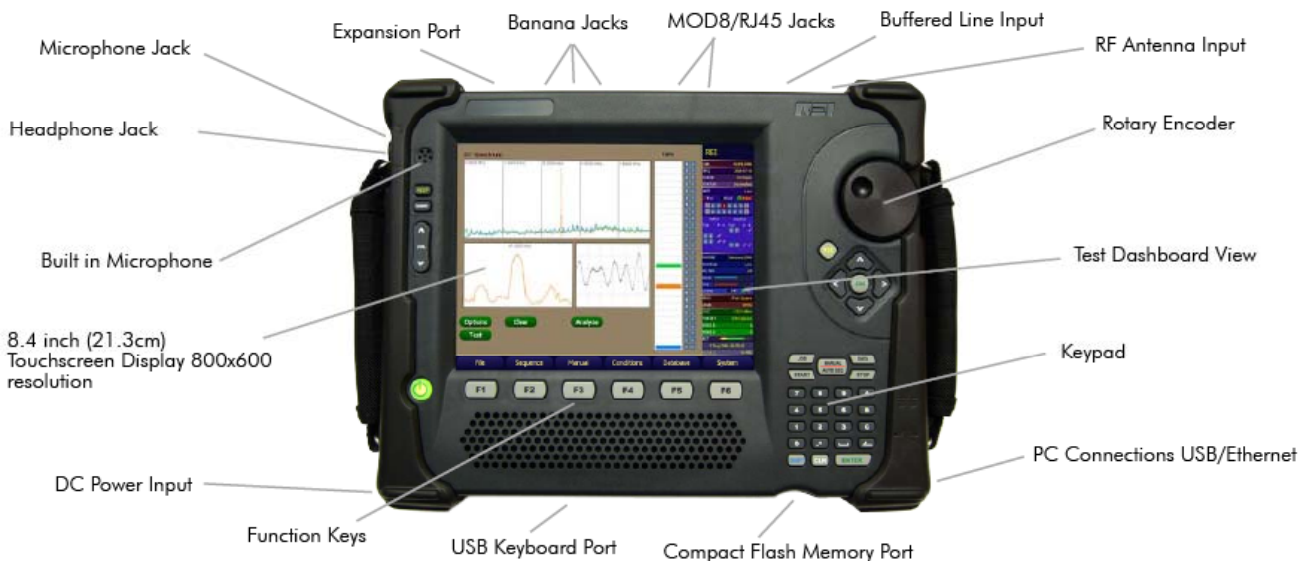
TARGETED PRODUCTION DECEMBER 2006



**Analyze, Inspect, and Test digital telephone lines for taps or other eavesdropping devices...**

**DPA-7000 Features**

- **Digital Demodulation** to confirm that the telephone line is not passing audio (demodulation code is upgradable For new phone systems, expected to cover 80% of world's PBX/ACD phone systems).
- **Frequency Domain reflect meter (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 Multi meter** 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.
- **Base-band and composite video detect and capture** checks for video on lines
- **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.





**Digital PBX Demodulation**

Includes digital decoding capabilities for approximately 80% of the world's Digital phone systems. This is Upgradable (via computer interface) as New phone systems become available.

**NLJD Line Trace Capability**

NLJD Line Tracer Probe not only traces lines, it also detects any electronic devices on the line, locating hidden taps or other eavesdropping devices.

**Frequency Domain Reflect meter**

Similar to traditional TDR (time Domain Reflect meter) however, No blind spots and more consistent Resolution.

**CONTROL SYSTEM**

**Primary Computer:** 32bit RISC processor, 520MHz

**Internal Memory:** 64MB SDRAM(OS), 64MB Flash

**External Memory:** Compact Flash to 2GB

**DIGITAL I/O**

**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**

**Headphone Output:** 3.5mm stereo Connector

**Microphone Input:** 3.5mm Mono input

**Buffered Output:** RCA type. Mirrors signals encountered on selected input source

**USER INTERFACE**

**Hard Keys:** 12 Soft Menu Keys, 5 Button Quadrant Navigation & other dedicated keys

**Encoder:** High-Resolution Optical Encoder

**Test Inputs:**

- 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 access ories

**RF SYSTEM**

**Spectrum Analyzer:**

Dual Conversion, Super-Heterodyne Receiver

Frequency Range: 10kHz to 85MHz

Sweep Time: 2 Seconds

Step Size: 10kHz

Bandwidth: 12 kHz

Sensitivity: -120dBm

**Broadband Detector:**

RF SMB Input: 100kHz to 8GHz

Balanced Line Test: 100kHz to 750MHz

Sensitivity: -65dBm

**DIGITAL MULTIMETER**

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

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

**Resistance:** 0 to 40 Mega Ohm

**Capacitance:** 4nF to 400µF

**BIAS GENERATOR**

**Optically Isolated, Direct Digital**

**Control:** High voltage DAC

**Output Ceiling:** +-80VAC

**Modulation:** Sine, Triangle, & Square

Waves up to 300HZ

**AUDIO**

**Optically Isolated:** Wideband Audio path optically isolates user form connection

**Bandwidth:** 10NHZ at nominal gain of 40dB

**Gain:** Up to 70dB total system gain

**AGC:** Digitally Controlled Automatic Gain

**Filter:** Analog Voice band filter(300Hz to 3kHz)

**POWER SYSTEM**

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

**Removable Battery:** Rechargeable Lithium ion

, 4-6 hours of run time

**MECHANICAL**

**Dimensions:** 9.5in x 12in x 2in

(24.1cm x 30.5cm x 5.0cm)

**Weight with Battery:** 6lbs (2.7kg)

**Case Dimensions:** 6.25in x 14.9in x 18.5in

(15.9cm x 37.8cm x 47.0cm)

**Case Weight:** 11.5lbs (5.2kg)

**Operating Temperature:** 0 °C to +60 °C

**Storage Temperature:** -40 °C to +60 °C

