



Tel Scope™

21st Century Telco Line Analyzer

Tel Scope uses the latest embedded processor technology to enhance the user interface experience to provide a “smart” telephone test set that can be modified easily with new innovative feature sets. Combined with a rugged weatherproof case, the Tel Scope is designed for field use in extreme conditions.

- **Multilingual (English, French, Spanish)**
- **Large lighted LCD for use in low light environments**
- **Glow-in-the-dark keypad**
- **Rainproof**
- **100% data safe**
- **The most powerful telco test set ever built!**

Physical Features

- Ergonomically designed body for most comfortable use
- 60 inch Angeled Bed of Nails with piercing clip cord set
- Listening speaker with fine volume adjustment
- Adjustable earpiece volume, hearing aid compatible
- Noise cancelling microphone
- Microphone mute with toggle on/off locking feature
- Soft key menu system simplifies user interface and customization
- Optional cushion boot for extra protection in ultra harsh environments
- Large LCD screen with On/Off option to conserve battery life
- Rainproof and highly water/dust resistant case to IP54 Standard

Function Features - Displayed on Lighted LCD

- Off-hook current and polarity
- On-hook voltage and polarity
- Ring amplitude and frequency
- On-hook and call waiting Caller ID info
- Amplified Line Monitor for volume levels comparable to “off hook” operation
- 8 number Stored memory with Alpha/Numeric tags
- Fuel Gauge Battery condition
- Continuous Polarity Indication
- Caller ID/Call Waiting
- Caller ID error detection
- Last Number redial - 24 digits
- Tone and Pulse dialing
- Configurable Auto Off in all modes
- Last number dialed, redialed or received
- Detection of T1 and DSL Lines





Belt Clip for Convenient Hands Free Usage



Angled Bed of Nails, Piercing Clip Cord Set and RJ Plug



Optional Accessories & Kits



**KP400-T3-1
Deluxe Tel Scope Field Kit**
Tel Scope (TLA300-1), TrakAll Tone & Probe and Hanging T3 Pouch



**CP100
Hanging T3 Pouch**

Digital Protection Features

- Data Defender™ Data line-in-use capability (Data Defender is a trademark of Independent Technologies)
- High line voltage detection with next step options
- Active monitor circuitry minimizes load on subscriber line
- DTMF digit detection and display in monitor mode
- Detects DSL and T1 lines
- DigitView™, DTMF decode sees defects on customer equipment while dialing out
- PwrSave™ circuitry for Extra Long battery life

Ordering

Part Number	Description
TLA300-1	Tel Scope Telco Line Analyzer with Angled Bed of Nails, Piercing Clip Cord Set and RJ Plug

Specifications

Product Dimensions	8.25 x 2.5 x 2.0 without belt clip and cord set
Product Weight	1lbs. 2oz.
Interface	Attached cord set
Languages	English, Spanish and French
Ringer Equivalence	In BELL mode: 0.0 (no ringer load)
Pulse Dialing	Pulse rate: 10 pps ± 10%; Make/break ratio: 60% to 40% ±2%; USA Interdigit interval: 820 ms; Resistance during break: 120K Ohms minimum
Tone Dialing	DTMF output (into 600 Ohms): Tone-frequency error: ±1.5%; Tone Level: High group: -6 ±2 dBm; Low group: -8 ±2 dBm; High group vs. Low group Difference (twist): 2 ±1 dBm
Flash Duration	600 ±50 ms
Pause Duration	Tone: 3 seconds; Pulse: 3.4 seconds
Memory	8 programmable locations, 32 digits with 12 character tag, stored in non-volatile memory. Last number redial plus list of last 10 numbers dialed.
Return Loss	Minimum 14 dB at 600 Ohms
Line-Current Range	10 to 110 mA
Apparent Line Resistance	275 Ohms at 20 mA
Monitor Mode Impedance	DC: 1MΩ typical AC: 390 KΩ at 1 KHz typical
Measurement	Voltage: 0 to 200 VDC ±5%; Current: 10 to 110 mA ±5%; NOTE: Do not attach test set to electric-power lines
User Controls	(1) Left-side-mounted TALK/BELL/MON push button switches for operating modes; (1) Right-side-mounted microphone mute pushbutton; (4) Front-mounted pushbuttons for various options; (1) Standard front-mounted 12-key phone keypad
Display	Transflective 128 by 64 pixel graphical liquid crystal display (LCD) with LED backlight
Power	4 x AAA alkaline batteries
Battery Life	With 100% backlight and in speaker mode · 20 hours Backlight off and speaker off · 75 hours Standby · 2 years
Warranty	1 Year