



# 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



Includes 60 inch Angled Bed of Nails with piercing clip cord set

### Optional Accessories & Kits



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



**CP100**  
T3 Hanging 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	Tel Scope Telco Line Analyzer with Angled Bed of Nails and Piercing Clip Cord Set

### Specifications

<b>Product Dimensions</b>	8.25x2.5x2.0 without belt clip and cord set
<b>Product Weight</b>	1lbs. 2oz.
<b>Interface</b>	Attached cord set
<b>Languages</b>	English, Spanish and French
<b>Ringer Equivalence</b>	In BELL mode: 0.0 (no ringer load)
<b>Pulse Dialing</b>	Pulse rate: 10 pps ± 10%; Make/break ratio: 60% to 40% ±2%; USA Interdigit interval: 820 ms; Resistance during break: 120K Ohms minimum
<b>Tone Dialing</b>	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
<b>Flash Duration</b>	600 ±50 ms
<b>Pause Duration</b>	Tone: 3 seconds; Pulse: 3.4 seconds
<b>Memory</b>	8 programmable locations, 32 digits with 12 character tag, stored in non-volatile memory. Last number redial plus list of last 10 numbers dialed.
<b>Return Loss</b>	Minimum 14 dB at 600 Ohms
<b>Line-Current Range</b>	10 to 110 mA
<b>Apparent Line Resistance</b>	275 Ohms at 20 mA
<b>Monitor Mode Impedance</b>	DC: 1MΩ typical AC: 390 KΩ at 1 KHz typical
<b>Measurement</b>	Voltage: 0 to 200 VDC ±5%; Current: 10 to 110 mA ±5%; NOTE: Do not attach test set to electric-power lines
<b>User Controls</b>	(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
<b>Display</b>	Transflective 128 by 64 pixel graphical liquid crystal display (LCD) with LED backlight
<b>Power</b>	4 x AAA alkaline batteries
<b>Battery Life</b>	With 100% backlight and in speaker mode - 20 hours Backlight off and speaker off - 75 hours Standby - 2 years