



## AT-5000 Professional Underground Cable / Pipe Locator System

Buried Utilities represent a major challenge to electricians who need to trace and trouble shoot such systems. They also represent a hazard to excavation crews. Improperly performed digging can cause cable or pipe damage resulting in personal injury, costly repairs and penalties. This product is faster and more accurate than what's available on the market today.

Using superior design and powerful software, the AT-5000 offers several new performance features, establishing them as the new standard for locating and pinpointing faults in the underground systems. Distance sensitive Left / Right indication guides the user to the exact location of the buried utilities which saves time and effort not available on standard locators.

The Signal Select and Distortion Alert provide superior accuracy by visually indicating a clean signal of the traced line, versus "ghost" and 'return' path of false signals coming from the neighboring lines, and keeping the user on the target line.

The core of the AT-5000 Utility Locating Systems is the ergonomically designed handheld receiver. Designed for comfort, the lightweight receiver is balanced for all day use. The receiver's bright color display is complete with intuitive, easily read graphics that can be viewed in all lighting conditions.

### No hassle warranty

*No waiting.*

*No shipping  
charges.*



Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: \$500 MSLP limit)



- Locates underground energized and de-energized wires, cables and pipes, eliminates exploratory digging in parking lots or under floors for buried pipes and wires
- New technology makes tracing much faster, accurate and unambiguous when compared to standard locators:
  - Signal Select and Distortion Alert icon indicates clean signal of the traced line, versus “ghost” and ‘return’ path signals coming from the neighboring lines
  - Forward-looking Guidance Coil alerts for bends and “T”
  - Distance Sensitive Left / Right Guidance guides the user to the exact location of the buried utilities and eliminates “blind” searches for the line
- Three testing modes for best accuracy:
  - Passive Power Mode (50, 60, 100 and 120 Hz) – tracing energized lines conducting current
  - Passive Radio Mode (RF) – using surrounding radio waves to trace underground object
  - Active Mode - T-5000 signal generator with broad frequency selection between 491 Hz and 166 kHz with induction mode or directly connected to the cable with test leads or optional clamp
- Active Mode Depth measurement up to 20’ (6m)
- Bright Color ¼ VGA receiver graphical display and audible signal indicators provide clear reading to the user
- Strong testing signal generated by 10 Watt variable output transmitter for dependable depth and distance locating
- Powerful Digital Signal Processing in both receiver and transmitter provides outstanding performance in tracing when compared to analog devices
- Automatic or manual gain mode allows respectively quick and easy tracing of the line or precise pinpointing of the fault
- Receiver Bluetooth® wireless communication for downloading relevant images and archiving of meaningful digital information (previous survey results)
- Ground Fault Locating with A-Frame adapter for power and telecom cables (optional for AT-5000)
- Precise pinpointing of buried services and exceptionally fast sound and meter response
- Rugged durable construction, weatherproof and drop resistant to 3’
- Includes receiver (R-5000), transmitter (T-5000), connection cable, ground stake, ground cable, and carrying case



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## Data Sheet

### Specifications

Depth Measurement	16 ft
Passive Tracing Frequencies	50, 60, 100 and 120 Hz
Transmitter frequency	Adjustable from 491 to 166 kHz
A-Frame Ground Fault Locating	Optional
R-5000 Active Frequencies (Hz)	491, 982, 8.44k, 9.82k, 35k, 82k, 83k (North America) 491, 512, 577, 640, 982, 8k, 8.44k, 9.82k, 35k, 65.5k, 82k, 83k
R-5000 Passive Frequencies (Hz)	50, 60, 100, 120, RF (14k-21k) Extended and special frequency sets available
R-5000 Depth Display Accuracy	0-10ft: $\pm(5\%+2")$ under ideal field conditions 10-20ft: $\pm 10\%$ under ideal field conditions
R-5000 Depth Range	Maximum 20ft (600 cm)
R-5000 Gain Adjustment	Automatic & manual with pushbutton centering
R-5000 Controls	Four-way navigation key and soft keys
R-5000 Display Indicators	Frequency Audio volume, battery condition, Guidance Compass™, Distortion Alert™, Signal Select™, signal strength, Distance Sensitive Left/ Right Guidance™, menu softkey, frequency softkey
R-5000 Line ID	Signal Select, Guidance Compass, Distortion Alert
R-5000 Display	¼ VGA Bright Color
R-5000 Antenna	Distance Sensitive Left/Right Guidance
R-5000 Data Acquisition	Internal data logging memory
R-5000 Operating Temperature	-4°F to +122°F (-20°C to +50°C)
R-5000 Battery Type	Li-ion rechargeable 9 AA Alkaline
R-5000 Battery Life	30 hours continuous
R-5000 Battery Check	Continuous display
R-5000 Dimensions	8 ¼" W x 13 ¼" H x 29" L (21.0cm x 33.7 cm x 74.3cm)
R-5000 Weight	4.9 lb (2.2 kg)
R R-5000 egulatory Compliance	FCC, CE
R-5000 Environmental	IP54
T-5000 Output Frequencies (Hz)	491, 982, 8.44k, 9.82k, 35k, 82k, 83k (North America) 491, 577, 640, 982, 8.192k, 8.44k, 9.82k, 35k, 82k, 83k Extended and special frequency sets available
T-5000 Output Power	Variable to 10W
T-5000 Simultaneous Output	Up to three active frequencies
T-5000 Controls	Frequency select, measurement units (mA, Volts, Ohms, Watts), output power, Signal Select™, menu, 4-way navigation, select, SFL, On/Off
T-5000 Display Indicators	Battery status, audio volume, output mode, frequency setting, frequency output, % output in SFL or induction mode, output graph, loop resistance graph
T-5000 Display	1/8 VGA monochrome
T-5000 Battery Type	NiMH rechargeable or six (6) D alkaline
T-5000 Battery Life	6 – 12 hours continuous use, depending on power level and line conditions
T-5000 Operation Temperature	-4°F to +122° F (-20°C to +50° C)
T-5000 Dimensions	11" W x 6 ¾" H x 9" L (27.9 cm x 17.1 cm x 22.9 cm)
T-5000 Weight	8.24 lbs. (3.7 kg)
T-5000 Regulatory Compliance	FCC, CE
T-5000 Environmental	IP54

### **Included Accessories**

Receiver (R-5000), Transmitter (T-5000), connection cable, ground stake, ground cable, and carrying case

### **Optional Accessories**

- A-5000 A-Frame Ground Fault Locator
- SC-5000 4" Signal Clamp for AT-5000 series
- M-5000 Sonde Pipe transmitter for AT-5000 series
- BT-5000 Rechargeable battery pack for transmitter AT-5000 series (requires EPS-5000 charging kit)



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