



TESTING INSTRUMENTS
Optical system testing instrument

ADVANCED UNDERGROUND CABLE FAULT LOCATOR

Precision. Innovation. Engineered for India

Introduction:

Introducing the next-generation Advanced Underground Cable Locator, a cutting-edge solution engineered to set new benchmarks in underground cable and pipeline detection. Featuring Integrated GPS technology (Optional), this state-of-the-art device provides unparalleled precision and functionality, making it the go-to tool for professionals in utility mapping, fault detection, and infrastructure maintenance.



STAR INFOMATIC PVT LTD

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Why Choose the Underground Cable Fault Locator.?

1. **Unmatched Precision:**- Track and map underground cables and pipelines with pinpoint accuracy.
2. **Integrated GPS Mapping:**- Real-time geographic data ensures seamless project documentation and operational efficiency.
3. **Comprehensive Functionality:**- From fault detection to interference-free signal tracking, it does it all.
4. **Built to Last:**- Engineered to withstand India's challenging terrains, climates, and environmental conditions.
5. **User-Centric Design:**- Intuitive interface with enhanced visibility and advanced connectivity for diverse field applications..

Features

Here are the features of the Underground Cable Fault Locator.

- **Integrated GPS (Optional):**- Precise location tracking of fiber optic cables.
- **Easy Cable Detection:**- Accurately locates buried cables in various environments.
- **Advanced Signal Processing:**- Minimizes interference for more accurate results.
- **User-friendly Interface:**- Simple operation with clear digital displays.
- **High Sensitivity:**- Detects cables at long distances and depths.
- **Durable Build:**- Designed for rugged field conditions.
- **Lightweight and Portable:**- Easy to carry and handle during inspections.
- **Battery Efficient:**- Long-lasting battery for extended usage.
- **Versatile Usage:**- Ideal for both telecom and utility applications.



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Technical Specifications: Receiver

| | |
|--|---|
| Accuracy | Depth Measurement: $\pm 5\%$ (depth $\leq 3\text{m}$), $\pm 10\%$ (depth $3\text{m}-20\text{m}$) |
| Power Supply | 7.4V DC 3400mAh rechargeable Li-ion battery pack |
| Receiving Frequency | Active (577Hz to 201kHz), Passive (50Hz to 250Hz). |
| Display | 3.5-inch color LCD, high visibility in any lighting conditions. |
| Connectivity | Bluetooth-enabled (optional) for GIS and data apps. |
| Receiving Configuration | Built-in receiving coil; Rogowski coil; Stethoscope(Remote Antenna); |
| Bluetooth (Optional) | Bluetooth communication; Connecting to mobile apps for various data processing; |
| Locating Mode | Broad Peak Mode, Peak Response Mode, Null Mode |
| Locating Mode and Screen | Classic Mode; Plan View Mode; Signal Curve Mode; |
| Depth Measurement Accuracy | $\pm 5\%$ (depth below 3m); $\pm 10\%$ (depth from 3m to 20m) |
| Target Cable Direction Identification | During the cable route locating, the pinpoint arrow points to the target cable under test. |
| Sound Indication | FM: Sound pitch changes with signal strength |
| Anti-interference ability | The extremely narrow receiving frequency band can fully suppress power frequency and harmonic interference from adjacent running cables and pipelines. |
| Cable Identification | Rogowski Coil; Stethoscope (Remote Antenna); Calibration Cable: 1 ~ 10 Calibration value: The percentage of the received signal and the transmitted signal Successful Identification: 75%~135%; The transmitting clamp, receiving clamp, and loading signal must be in the same direction |
| LED night lighting | Flashlight installed in the receiver |
| Dimensions | Approx 290mm(L) \times 128mm(W) \times 700mm(H) |
| Weight | Approx 1.90kg |

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| Charger | DC 8.4V 1A |
| Flashlight Power | 1W max |
| External Connector | Mini-B USB socket for firmware updates: 1 DC charging port: 1 Flexible coil connection socket: 1 |
| Rogowski Coil | L: approx 620mm Wire Diameter: ϕ 8mm |
| Coil Diameter | ϕ 200mm, customized |
| Stethoscope Dimension | L: 111mm×W: 60mm×H: 27mm, optional |
| Length of Lead Wire | Stethoscope: Approx 3m |
| Working temperature and humidity | -10°C ~ 40°C; Below 80%Rh |
| Storage temperature and humidity | -10°C~50°C; \leq 95%RH, no condensation |
| Dielectric Strength | AC3700V/rms(Between the upper and lower ends of the housing) |
| Safety Regulation | IEC61010-1 CAT III 600V, IEC61010-031, IEC61326, Pollution level 2 |

Transmitter/Tx

| | |
|-------------------------|--|
| Function | Multiple frequency signal transmission; |
| Power Supply | 11.1V DC 12800mAh Rechargeable lithium-ion battery pack |
| Locating Method | Direct Connection; Signal Coupling; Induction; |
| Output frequency | 577Hz, 640Hz, 1280Hz, 2.56kHz, 3.20kHz, 4.09kHz, 8.19kHz, 10kHz, 33kHz, 66kHz, 82kHz, 201kHz |
| Output Power | 5W/10W max, 10 power gears available |

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| Impedance | Fully automatic real-time impedance matching and protection functions |
| Output voltage for direct connection | 150V max |
| Circuit protection | Overload and short-circuit protection |
| LCD | 5.6-inch LCD color screen |
| Weight | Transmitter: approx 3.85kg Transmitting Clamp: approx 1.18kg |
| Charger | DC 12.6V 2A |
| Transmitting | Dimension: L:297mm×W194mm×H39mm |
| Clamp | Diameter:φ150mm Lead wire: 3m Red Test Lead: 3m; Black Test Lead: 3m; |
| External Connector | Type-B USB socket for firmware updates: 1 DC charging Port: 1 Signal transmitting clamp connection socket: 1 Direct connection test lead interface: 2 |
| Pressure Resistance | The case can withstand weight of approx 200kg |
| Dielectric Strength | AC 3700V/rms(Between the upper and lower ends of the housing) |
| EMC | IEC61326(EMC) |
| Safety Regulation | IEC61010-1(CAT III 300V, CAT IV 150V, Pollution Level 2) |

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