T-506 Cable Fault Pinpointer

T-506 pinpointer is used, in conjunction with an HV surge generator, to pinpoint the location of an underground power cable fault. The T-506 system uses an electromagnetic field and acoustic sound coincidence technique, together with an intuitive user interface, to allow the user to quickly and precisely pinpoint the location of the fault.

Features

- The electromagnetic field and acoustic sound coincidence technique locates the fault with an accuracy of up to 0.1m.
- Bluetooth wireless technology transfers information to a tablet APP with an easy to use interface to find the fault.
- Position indicator, showing cable location
- Hands-free harness to support the tablet
- Earphones allow the operator to listen to the fault discharge sound, to audibly identify the fault location.
- Ergonomic, lightweight pinpointer, designed to reduce environmental noise and improve sound capturing capability
- Integral sound filters cater for different ground and soil conditions.
- Waveform recognition, using machine learning technology, distinguishes the fault discharge sound signal from background noise.
- Automatic earphone sound muting, to protect the operator

Specifications

- Sound filter:
  - No filter 100Hz –1500Hz
  - Low pass filter 100Hz – 400Hz
  - Band pass filter 150Hz – 600Hz
  - High pass filter 200Hz – 1500Hz
- European Low Voltage Directives Compliance

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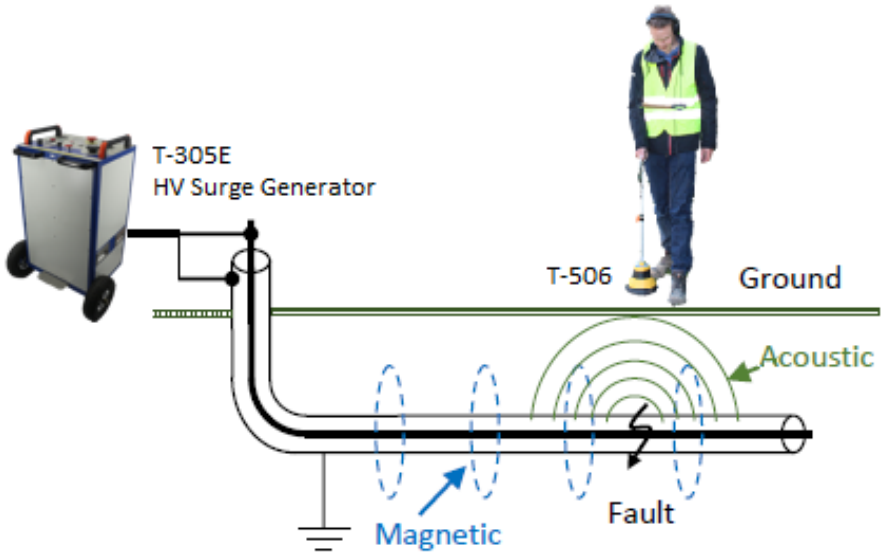
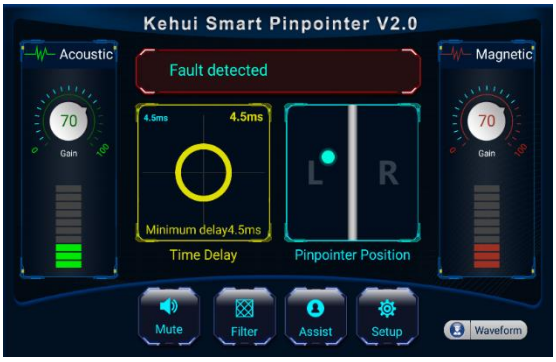
- Weight:
  - Pin-pointer: 2.0kg
  - Tablet: 1.1kg (including harness)
- Working temperature: -10 to 50°C
- Working humidity: 40°C (20-90) % RH
- Storage temperature: -20 to 50°C
- Protection class: IP65•

Application

The HV surge generator, connected at one end of a faulty cable, generates periodic high voltage surges which cause flashovers at the fault point. This produces a transient electromagnetic field along the cable, together with an acoustic sound caused by the fault breakdown. The T-506 detects both signals and measures the time delay between them to determine the proximity of the pin-pointer to the fault point. The electromagnetic field is measured by two pick-up coils, arranged in an orthogonal manner, which also provide information about the position of the pinpointer with respect to the cable. This information, together with the time delay information, allows the user to track the fault location quickly and precisely.





Selectable Operator and Waveform user interfaces provide alternative fault-finding techniques.

Delivery includes:

- T-506 Detector
- Detector handle
- Detector charger
- Tablet PC
- Case and harness for tablet PC
- Tablet PC Charger
- Tablet PC Cables
- Headphones
- User Manual