



PROFESSIONAL MANUFACTURING
FROM 2004 TO MAKE LOCATION
EASIER, QUICKER
AND MORE ACCURATE

WIT
Electric

WIT *Electric*

Company Introduction

STABLE AND RELIABLE PERFORMANCE * PROFESSIONAL MANUFACTURE FROM 2004



WIT ELECTRIC is a professional high-tech enterprise focus on pipe and cable detection, cable fault location system and related devices.

We focus on technological innovation and better customer services and this through all our business process.

Now WIT has own technology with more than thirty national patents.

We are National high-tech enterprise and win National Innovation Fund, national technology progress prize from the year found.

Every year we put effort in keeping improving device performance and to achieve high precision, stable and reliable devices.

Main devices:

Undergrounding pipe and cable detection system, power cable fault location system, overhead line fault location system, EHV cable sheath fault location system. DC grounding fault location system and on-line cable fault monitoring system. Now we have been the well-known enterprises in domestic market.

In the overseas market, because quality and service we are winning more and more customers and establishing the ODM and distributor partnership.

ZIBO WIT ELECTRIC NATIONAL TECHNOLOGY CENTER

UNDERGROUND PIPE AND CABLE DETECTION
TECHNOLOGY CENTER

ON-LINE CABLE FAULT MONITORING AND PIN-
POINTING SYSTEM TECHNOLOGY CENTER

Honor And Qualification



HONOR:
QUALITY MANAGEMENT SYSTEM:
ISO 9001:2008



HONOR:
COUNTRY HIGH-TECH ENTERPRISE



HONOR:
PROFESSIONAL R&D TERM WITH
30+ PATENTS



HONOR:
DEVICE TESTED BY PROFESSIONAL
LAB KETOP

PD-3900 Pipe and cable locator



APPLICATION:

Dead or running cable and metallic pipe route tracing, depth measurement and identification.

FEATURE:

Compass and direction display: directly display the pipe position and left/right direction.

Tracing correct and error indication: current direction measurement to avoid the interference from the nearby cable.

Real time depth and current measurement.

Whole set adopt carbon fiber moulding and according with human engineering make device lighter and more solid.

High power transmitting and ultra high sensitivity receiving.

All digital process to make the detection stable and reliable.



High ability transmitting clamp



Cable identification soft clamp (optional)



HV 1000V Voltage booster for grounding fault location (optional)

PD-3900 Pipe and cable locator

☰ SPECIFICATION:

Transmitter:

Output: Direct Connection output, Clamp Coupling Output (optional), Radiation output, fault location booster (optional).

Output Frequency: 640Hz (complex frequency), 1280Hz (complex frequency), 10kHz, 33kHz, 82kHz, 197kHz.

Output power: max. 10W, 10 levels adjustable, auto impedance matching.

Safety:

Direct connection voltage: max. 150Vpp.
Overload and short circuit protection.

HMI: 320x240 LCD.

Power supply: 4 X built-in 18650 Li-ion batteries, standard 7.4V, 6.8Ah.

Other:

Volume: 680x277x120mm.

Weight: 2.0 kgs.

Receiver:

Input: Internal receiving loop, Clamp (optional), flexible sensor (optional), sensor (optional), fault locating A Frame (optional).

Receiving frequency:

Active frequency:

640Hz, 1280Hz, 10kHz, 33kHz, 82kHz, 197kHz.

Power frequency: 50Hz/60Hz, 250Hz/300Hz.

Radiation frequency passive frequency:

center frequency 10kHz, 33kHz, 82kHz.

Pipe detection mode: wide peak method, narrow peak method, valley method.

Cable identification mode: flexible Clamp (optional) intelligent identification and sensor (optional) identification.

HMI: 320X240 LCD

Built-in battery: 2 X 18650 Li-ion batteries, standard 7.4V, 3.4Ah.

Other:

Volume: transmitter 280x220x90mm.

Weight: transmitter 2.3 kgs.

Charger: input AC 100~240V, 50/60Hz, output DC 8.4V, 2A.

CD-550 Intelligent cable identifier



APPLICATION:

Dead and running cable identification.

FEATURES:

Large caliber flexible clamp make it's easy to use when complex environment.

Current and phase position double judgment to make reliable testing result.

Intelligent identification result display directly.

All digital process to make detecting stable and reliable.

Frequency:640Hz (complex frequency), 1280Hz (complex frequency),power frequency.

Output power: max. 10W, 10 levels adjustable, auto impedance matching.

HMI: ultra high brightness and high resolution color LCD, clear interface under sunshine.

SPECIFICATION:

Power supply:

Transmitter 4 X built-in 18650 Li-ion batteries, receiver 2 X 18650 Li-ion batteries .

Volume:

Transmitter 280x220x90mm, receiver 226x125x55mm.

Weight:

Transmitter 2.3kgs, receiver 0.9kgs.

CD-650 Cable fault locating HV signal generator



APPLICATION:

Inject the impulse high voltage into the faulty cable to repeat the fault for pre-locating and pinpointing.

FEATHER:

Portable: high class high protective portable case with pull rod and wheel.

Integrated design with built-in capacitor, HV zero position start, no HV leakage and auto discharging after power off.

Discharging mode: manual, period and DC optional. Integrated packsack cable and accessories storage easy to use.

SPECIFICATION:

Multiple specification optional:

CD-650-A30-4:0-32kV,

Energy-storage capacitor 4 μ f, Max. power energy 2000J.

CD-650-A30-2:0-32kV,

Energy-storage capacitor 2 μ f, Max. power energy 1000J.

CD-650-A10:0-10kV,

Energy-storage capacitor 10 μ f, Max. power energy 500J.

Power: AC 220V.

Volume: 500mm \times 280mm \times 450mm.

Weight: 22 kgs.

CD-7505

Power cable fault location multiple impulse filter

APPLICATION:

Used to offer the multi-impulse coupling signal for the cable fault location.

FEATHER:

Latest multiple impulse tech. and impulse balance tech., make the reflected waveform of the fault point obvious and easy to distinguish.

Adopt high voltage protection tech. to realize the isolation of measuring circuit and the high voltage surging power.

SPECIFICATION:

Input surge voltage below 35kV.

Input surge current Below 2000J.

Tested impulse voltage 300V(P-P).

Power: AC 220V, 50Hz.

Volume: 471 \times 234 \times 318mm.

Weight: 10kg.

Power: AC220V.



CD-750N

Power cable fault pre-locator



APPLICATION:

Power cable main insulation fault pre-locating.

FEATURE:

Work mode: TDR, ICM, MIM.

HMI: Ultra-high brightness and high resolution color LCD which clearly under the sunshine. Support both touch screen and button operation.

Device supports built-in storage and PC data download and monitoring.

SPECIFICATION:

Sampling frequencies: 200MHz.

Resolution: 0.4m.

Testing range: 100km.

Blood zone: 2m.

Signal gain: 70dB.

Low voltage impulse voltage: 32V.

Power supply: 18650 Li-ion batteries x2.

Volume: 280x220x90mm.

Weight: 2.3kg.

CD-750

Power cable fault pre-locator

APPLICATION:

Power cable main insulation fault pre-locating.

FEATURE:

Work mode: TDR, ICM, MIM.

HMI: Ultra-high brightness and high resolution color LCD which clearly under the sunshine. Support both touch screen and button operation.

Device supports built-in storage and PC data download and monitoring.

SPECIFICATION:

Sampling frequencies: 200MHz.

Resolution: 0.4m.

Testing range: 100km.

Blood zone: 2m.

Signal gain: 70dB.

Low voltage impulse voltage: 32V.

Power supply: 18650 Li-ion batteries x2.

Volume: 274x218x81mm.

Weight: 3.5 kg.



CD-850N Cable fault pinpointer



APPLICATION:

Power cable main insulation fault pinpointing.

FEATURE:

Acoustic magnetic synchronization method to find the fault point with accuracy <0.1m.

HMI: Ultra-high brightness and high resolution color LCD which clearly under the sunshine.

Interface mode:

Auto mode: automatically measure and display the acoustic and magnetic synchronic value.

Advanced mode: display the acoustic waveform and move the cursor to measure the accurate acoustic magnetic synchronic value.

Digital noise reduction: intelligent noise reduction and self-adaption noise reduction optional to insulate and reduce the noise and highlight the discharge sound.

Adjustable filter: settable for low pass, band pass, high pass and all pass modes to reduce the noise.

Auto muting function when touch the rod to avoid the noise when moving sensor.

Electronic compass function to display cable route.

SPECIFICATIONS:

Acoustic channel bandwidth:

All-pass: 80Hz~1500Hz.

Low-pass: 80Hz~400Hz.

High-pass: 200Hz~1500Hz.

Band-pass: 150Hz~600Hz.

Signal gain: ≥80dB.

Accuracy: 0.1m.

Background noise reduction mode: support noise reduction, no noise reduction, adaptive noise reduction.

Power supply: 2 X Li-ion batteries.

Volume : main unit 230mm×127mm×55mm.

Weight: main unit 1kg.



CD-850 Cable fault pinpointer



APPLICATION:

Power cable main insulation fault pinpointing.

FEATURE:

Acoustic magnetic synchronization method to find the fault point with accuracy <0.1m.

HMI: Ultra-high brightness and high resolution color LCD which clearly under the sunshine.

Interface mode:

Auto mode: automatically measure and display the acoustic and magnetic synchronic value.

Advanced mode: display the acoustic waveform and move the cursor to measure the accurate acoustic magnetic synchronic value.

Digital noise reduction: intelligent noise reduction and self-adaption noise reduction optional to insulate and reduce the noise and highlight the discharge sound.

Adjustable filter: settable for low pass, band pass, high pass and all pass modes to reduce the noise.

Auto muting function when touch the rod to avoid the noise when moving sensor.

Electronic compass function to display cable route.



SPECIFICATIONS:

Acoustic channel bandwidth:

All-pass: 80Hz~1500Hz.

Low-pass: 80Hz~400Hz.

High-pass: 200Hz~1500Hz.

Band-pass: 150Hz~600Hz.

Signal gain: ≥80dB.

Accuracy: 0.1m.

Background noise reduction mode: support noise reduction, no noise reduction, adaptive noise reduction.

Power supply: 2 X Li-ion batteries.

Volume : main unit 210mm×95mm×115mm.

Weight: main unit 0.6kg.

TDR-990 Telecom cable TDR locator



📖 APPLICATION:

Telecom cable broken and crossing fault detection.

📖 FEATHER:

TDR(Time Domain Reflectometry)method to measure disconnection fault, cross fault, insulation fault and so on.

Automatic measurement.

Friendly user interface, easy to operate.

Whole set adopt carbon fiber moulding and according with human engineering make device lighter and more solid.

📖 SPECIFICATIONS:

Location range:max.30km.

Resolution : 1m.

Blind zone:1m.

Impulse width :80ns~10μm.

Gain :80DB.

VOP range: 100-300m/μs.

HMI: 800x840 color LCD, luminance reach 800cd/m² to make clear display under the sunshine.

Power supply: 18650 Li-ion battery x2

Volume:226×120×55mm

Weight: 0.9kg

CD-6660 EHV cable sheath fault pinpointing signal generator

APPLICATION:

To offer signal source for the EHV cable sheath fault step-voltage pinpointing.

SPECIFICATION:

Output mode: 1Hz impulse DC HV.

Output value: 0-10kV,0-100mA,1kW (max)

Volume :471×234×318mm.

Weight: 15kg.

Power : AC220V.



CD-6670 HV bridge/EHV cable sheath fault locator

APPLICATION:

HV bridge function for power cable main insulation fault pre-location.

EHV single core fault sheath pre-location.

Signal source of EHV single-core cable sheath fault step-voltage pinpointing.

FEATHER:

Power resistance ratio method to pre-locate and no need to do balance adjustment.

Overcome the cable connection resistance influence and high accuracy.

All digital auto testing and no need do manual intervention.

High accuracy digital process and high resolution color LCD which clear under the sunshine.

Grounding lock and HV zero position start to make it safe.

SPECIFICATION:

Output:0-10kV,0-100mA,1kW (max)

Volume :500×280×450mm.

Weight: 15kg.

Power :AC220V.



CD-6680

EHV cable sheath fault pinpointer

APPLICATION:

EHV single-core cable sheath fault pinpointing.

FEATHER:

Work mode:

Step-voltage: probe input and arrow indicate the fault point direction.

Current coupling section: current sensor input and to test the resistive current in the cable to do fault subject.

All digital process and signal waveform display.

High accuracy and wide responding zone.

Easy operation and well protect with loop and HV isolation, no HV leakage.

HMI: extra high bright high resolution color LCD which is clear under the sunshine.

SPECIFICATION:

Power supply: 18650 Li-ion battery x2.

Volume: 226x120x55mm.

Weight: 0.9kgs.



JD-350

Multi-mode overhead line fault locator



APPLICATION:

6-35kV overhead line small current grounding fault pinpointing.

FEATHER:

Multi-mode detection:

Ultra-harmonics space vector mode when line is running with fault and low transition resistance:
no need transmitter and no need to hang the sensor.
Use the receiver only to subsection check along the line and distinguish the fault point according the testing result.

AC mode when line is outage and with low transition resistance:

Transmitting signal: high power low frequency AC signal active injection.

Receiving signal: subsection checking along the line and no need to hang the sensor.

Impulse DC mode when line faulty outage and high transition resistance:

Transmitting signal: high power DC signal active injection.

Receiving signal: subsection checking along the line and need to hang the sensor.

GPS synchronic to reduce the distributed capacitance influence and rise the application range of transition resistance.

Transmitter:

built-in Li-ion battery pack with high voltage and big power.

Receiver:

All digital high accuracy signal process and testing result is clear and definite.

Sensor:

Open type and no need to close and easy to hang.

Wireless communication between the sensor and receiver, it is safe and reliable.

SPECIFICATION:

Power:

Transmitter 48V Li-ion battery pack, receiver 18650 Li-ion battery x 2.

Volume:

Transmitter 450x240x270mm, receiver 226x120x55mm.

Weight:

Transmitter 11.5kgs and receiver 0.9kgs.

ZD-450 DC system grounding fault pinpointer



APPLICATION:

DC power system grounding fault pinpointing for power station, transformer substation.

Voltage 220/110/48/24V auto adapt and no need to do power outage.

Used for high resistance grounding fault, AC crossing DC grounding fault, low resistance fault, Transient grounding fault, impulse interference, loop grounding, single and multiple point grounding fault detection.

SPECIFICATION:

Transmitter:

Auto parameter testing and calculate the best testing frequency 4/2/1/0.5Hz.

Signal inject: current valid value $\leq 20\text{mA}$.

AC crossing testing to avoid device broken. AC/DC power supply, and power taking directly from the DC system when DC supply.

Receiver:

Auto distinguish the grounding status and auto alarm when grounding.

Current direction indication and the loop grounding fault detection. Support grounding status distinguish by waveform to overcome the distributed capacitance influence.

All digital high sensitivity signal process and real time calculate the resistive current.

Tested grounding resistance value: 0-500 K Ω .

Anti- earth distributed capacitor ability:

branch $\leq 22\mu\text{F}$, system to earth total capacitance $\leq 150\mu\text{F}$.

Power :

Transmitter AC/DC.

receiver: 18650 Li-ion battery x2.

Volume :

Transmitter 280x220x90mm,

receiver 226x120x55mm.

Weight:

Transmitter 2.3kgs,

receiver 0.9kgs.

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