



TIANJIN GREWIN TECHNOLOGY CO.,LTD

www.grewin-tech.com

COMPANY PROFILE

TIANJIN GREWIN TECHNOLOGY CO. was identified as "high-tech enterprises" by the government. We are a professional producer in pipe and cable fault locating system line. We focus on technological innovation, and better customer services. We have thirty five national patents and win the National Innovation Fund every year. Our products are well reputed in many fields of National large power plants, railways and minings etc.

We have many technical backbone engineers, including more than 85% master's, bachelor high, intermediate technical staff. For truly fitting the requirements if you have suggestions, questions and feedback.

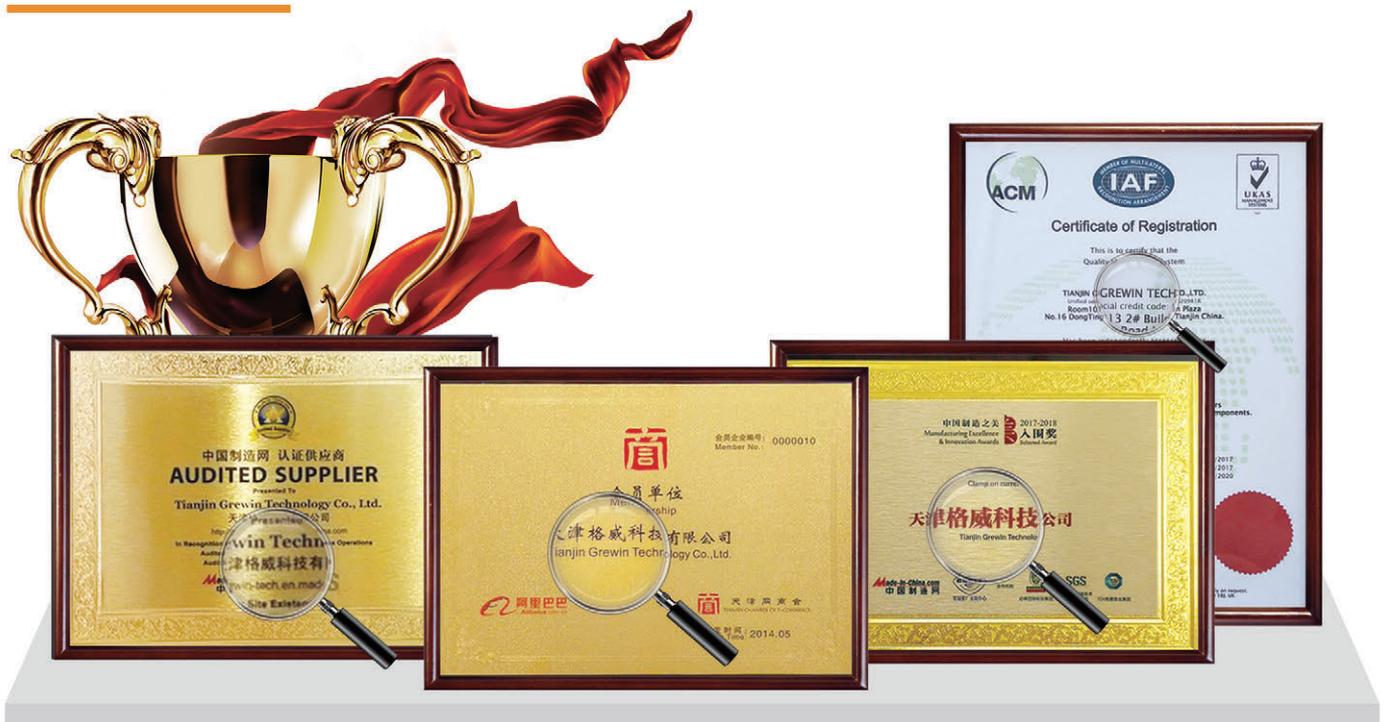
We are winning more and more customers and established ODM and distributor partnership.

● 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.

PATENTS & CERTIFICATIONS



RCI-601P

PIPE AND CABLE LOCATOR

APPLICATION:

Dead and 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.

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.

Safety: Direct connection voltage: max. 150Vpp. **Output power:** max. 10W, 10 levels adjustable, auto impedance matching.

Direct connection voltage: max. 150Vpp. **Overload and short circuit protection.** **HMI:** 320x240 LCD.

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

◆ 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-on batteries, standard 7.4V, 3.4Ah

◆ Other:

Volume: transmitter 680x277x120mm, receiver 280x220x90mm

Weight: transmitter 2.3 kgs, receiver 2.0 kgs

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

Temperature: -10~40°C, humidity 5~90%, elevation <4500m



RCI-601PR Intelligent Pipe And
Cable Locator Receiver

RCI-601PT Intelligent Pipe And
Cable Locator Transmitter



High ability transmitting clamp

Cable identification soft clamp (optional)

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

PCLD-901D

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 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

Vol:274×218×81mm **Weight:**3.5kg



PCLD-901DN

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 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

Vol:280×220×90mm **Weight:**2.3kg

RCI-602

INTELLIGENT CABLE IDENTIFIER



RCI-602T Intelligent
Cable Identifier Transmitter



RCI-602R Intelligent
Cable Identifier Receiver



APPLICATION:

Dead and running cable identification

FEATURE:

- ▶ 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

HVSG-500GN

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

FEATURE:

- **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:

HVSG-500GN -A30-4: 0-32Kv

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

HVSG-500GN -A30-2: 0-32Kv

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

HVSG-500GN -A10: 0-10Kv

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

Volume: 500mm×280mm×450mm **Weight:** 22 kgs



PCLC-900C

POWER CABLE FAULT LOCATION MULTIPLE IMPULSE FILTER



APPLICATION:

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

FEATURE:

- 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: 471×234×318mm **weight:** 10g

PCLD-904P

CABLE FAULT PINPOINTER



APPLICATION: Power cable main insulation fault pinpointing

FEATURE:

- Acoustic magnetic synchronization method to find the fault point in accuracy <math><0.1\text{m}</math>
- **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.

SPECIFICATION:

◆ Bandwidth:

All-pass: 80Hz~1500Hz **Low-Pass:** 80Hz~400Hz **High-Pass:** 200Hz~1500Hz **Band-Pass:** 150Hz~600Hz

Signal gain: $\geq 80\text{dB}$ **Accuracy:** 0.1m **Power supply:** 2×Li-ion batteries **Size:** main unit 230mm×127mm×55mm

Weight: main unit 1kg

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

OLD MODELS OPTIONAL:



PCLD-901P CABLE FAULT PINPOINTER



PCLD-902P CABLE FAULT PINPOINTER

FLC-906D 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



FLC-907D 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

FEATURE:

- 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

FLC-908D EHV CABLE SHEATH FAULT PINPOINTER

APPLICATION:

EHVs single-core cable sheath fault pinpointing

FEATURE:

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 subsect.

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



TDRL-902

HANDHELD CABLE FAULT LOCATOR

APPLICATION:

This Cable Fault Locator (hereafter referred as locator) can measure the exact fault location such as the broken line, cross faults, earthing, poor insulation and poor contact of the lead covered cables as well as plastic cables.

FEATURE:

- ▶ Digital gain Adjustment control to make the gain adjustment very easy.
- ▶ Digital waveform automatically Identify technique to make sure no test dead zone.
- ▶ Top grade ARM single chip micro computer can make calculation and judge the fault waveform exactly.
- ▶ Large colorful LCD display; humanized operation interface; six function keys can do all the tests
- ▶ High-energy Li battery, continuous work 10 hours (with special charger).



SPECIFICATION:

Max range: 8 km (16km/32km are optional)

Highest resolution: 1m

Dead Zone: 0 m

Power consumption: 1W

Weight(kg): 0.38kg

Dimension(mm): 204×100×36mm³

Working temperature: -15°C to + 45°C **Storage temperature:** -20°C~ + 55°C

USB storage (optional): transmit wave form to U disk, and analyze the wave form on computer.

TDRL-945

DC SYSTEM GROUNDING FAULT PINPOINTER



TDRL-945T DC Grounding
Fault Pinpointer Transmitter



TDRL-945R DC Grounding
Fault Pinpointer Receiver



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 280×220×90mm, receiver 226×120×55mm.

Weight: transmitter 2.3kgs, receiver 0.9kgs

RCI-603

MULTI-MODE OVERHEAD LINE FAULT LOCATOR

APPLICATION:

6-35kV overhead line small current grounding fault pinpointing

FEATURE:

◆ 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

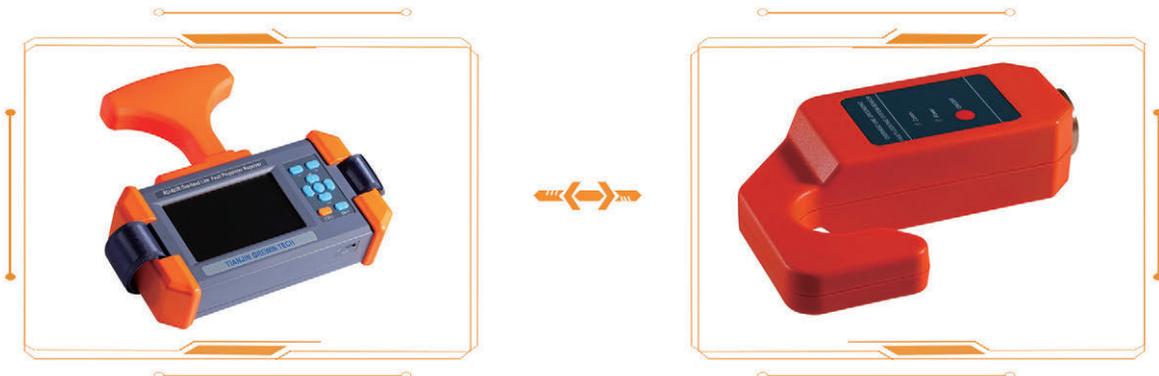


SPECIFICATION:

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



FOCUS ON TECHNOLOGICAL INNOVATION QUALITY AND HONESTY FIRST

Tel : +86-22-84943756

Mobile/Whatsapp : +86-13072088960

Skype : lialice99 **QQ:**1601649102

Email : salesmanager@grewin-tech.com

Web : www.grewin-tech.com

Address : 2-1013, Meinian Plaza, Dongting Road,
Hexi District, Tianjin 300222, China



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WEBSITE