

T-9000

CABLE & UNDERGROUND PIPELINE LOCATOR

The T-9000 cable and underground pipeline locator is GFUVE company's latest developed multifunctional detection equipment for pipelines, ducts, cables, optical cables, etc. Can accurately detect the location, path direction, and burial depth of pipelines, ducts, cables, optical cables, etc; Can accurately identify target cables in the midst of complex and intricate cables; Can accurately locate cable grounding faults. It is the culmination of the detection field, truly realizing the multi-purpose use of one machine and greatly reducing the cost of use.

The appearance design of the T-9000 cable and underground pipeline locator conforms to the principles of ergonomics. The whole machine is lightweight, sturdy, durable, with a high level of protection, and can be used in harsh environments. The display adopts high-definition backlight color LCD screen, which is clear and can be used all day long in any weather and lighting conditions. Equipped with intelligent compass tracking and positioning function, it displays the position, direction, and burial depth of the detected object in real-time and intuitively. The frequency range is wide, which can meet the needs of different users and support customized frequencies.

Detecting a specific pipeline in a large-scale underground pipeline network is becoming increasingly difficult. The underground interference signals generated by soil and adjacent conductors make the detection work time-consuming and laborious. The important requirements of the environment for positioning devices are easy to operate, fast, accurate, and reliable data. The detection data of T-9000 cable and underground pipeline locator is accurate, reliable, and reproducible, which well meets the requirements of the usage environment.

Application

1. Professional pipeline detection company
2. Cable Management Department of Power Company
3. Municipal Planning and Construction Pipeline Company
4. Pipeline Management and Maintenance Engineering Company
5. Exploration of complex pipeline areas in telecommunications, communication, oil fields, and railways
6. Comprehensive pipeline detection for professional pipeline engineering companies, surveying institutes, and non excavation projects.
7. Survey work such as excavation and construction, as well as detection of various pipelines related to underground pipelines such as water supply, drainage, gas, heat, and industry by units involved



Features & Functions

1. Underground pipeline detection: Accurately detecting the location, path direction, and burial depth of pipelines completed by one person simultaneously; The maximum detection depth is 20 meters, and the detection and positioning accuracy is within 10cm.

2. Live cable path detection: Accurately detect the position, path direction, and burial depth of the cable, which can be completed synchronously by one person; The maximum detection depth is 20 meters, ensuring detection and positioning accuracy within 10cm.

3. Optical cable routing detection: Accurately detecting the position, path direction, and burial depth of optical cables completed by one person synchronously; The maximum detection depth is 20 meters, ensuring detection and positioning accuracy within 10cm.

Our technology is internationally leading, a true industry masterpiece, and our country's own national brand!

4. Organic integration of functions, truly multi-functional, greatly reducing usage costs, saving you money, and unparalleled cost-effectiveness;

5. New features are added through software upgrades, and the T-9000 can configure and upgrade instrument functions through software without making any hardware changes. In the future, more powerful features can be infinitely configured, such as new frequencies, new color display interfaces, data storage and download functions, GPS functions, and more;

6. Color intelligent compass tracking and positioning function, real-time and intuitive display of the position, direction, turning, and burial depth of the detected object, easy-to-understand operation, can be completed synchronously by one person;

7. Dynamic left and right arrow indication and sound, indicating the center position of the pipeline. This observation tool can quickly locate the target center;

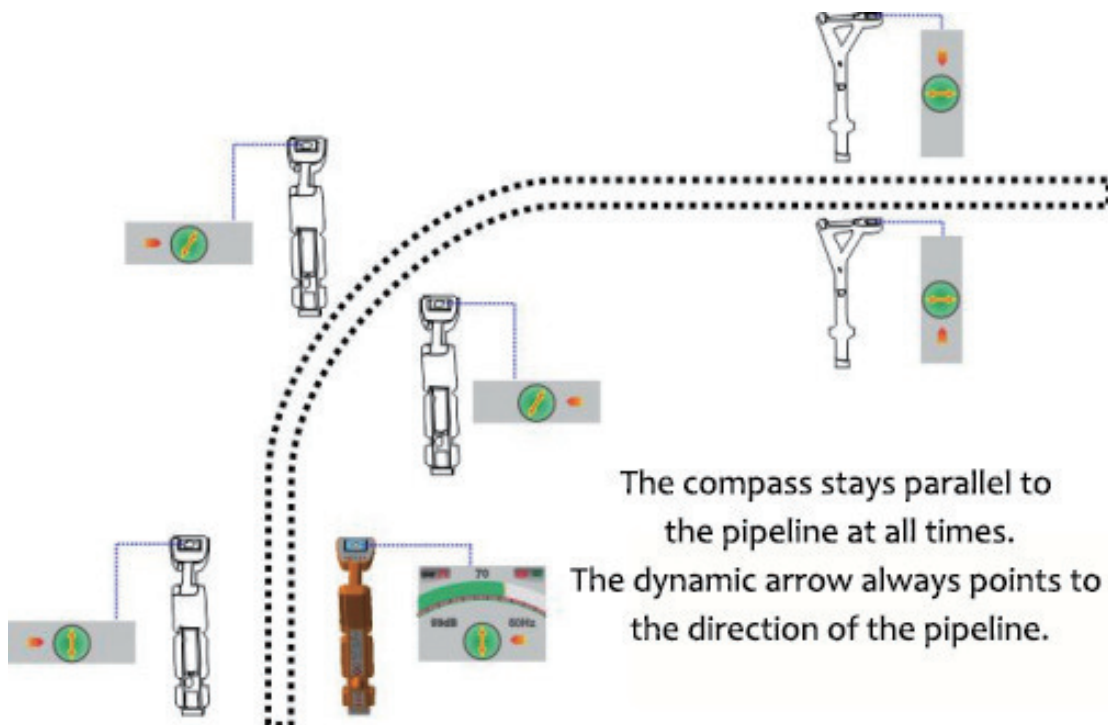
8. Ergonomic design, compact structure, good balance, lightweight, sturdy, durable, high protection level, can be used in harsh environments;

9. High definition backlight color LCD screen display, low power consumption, clear screen, can be used all day long in any weather and lighting conditions;

10. Supports passive detection of 50Hz and 60Hz, with active frequency coverage of any frequency between 50Hz and 200 KHz. The ultra-wide frequency range can meet the needs of different users and supports customized frequencies;

11. Maximum output power of 10 watts: suitable for deep laying and long-distance pipeline positioning;

12. Waterproof touch-sensitive buttons.



Specifications

1. Full frequency reception function

The T-9000 receiver has achieved a breakthrough in full frequency reception function, with multiple main detection frequencies pre-set between 50Hz and 200 KHz. Based on the site conditions, the most reasonable detection frequency is selected to improve the detection capability of complex pipelines.

2. Advanced signal reception technology

- ★ New type of receiver coil with ultra-high sensitivity: dynamic range up to 140dB, capable of detecting deeper pipelines and farther distances;
- ★ Special coil receiving technology: compresses the signal response range, improves the resolution of detection signals and the positioning accuracy of dense pipelines;
- ★ Use double coil technology to eliminate or suppress electromagnetic interference in space and adjacent underground pipelines;

The anti clutter filter automatically filters out interference signals, significantly improving the signal-to-noise ratio and signal stability of the detection signal, which is beneficial for the precise positioning of dense pipelines;

Dual core high-speed processor improves signal processing and computing speed, making pipeline positioning and depth measurement faster;

Practical peak signal identification and clear color display screen make signal response more intuitive and clear;

★ Limited signal response: The presence or absence of pipelines is clear at a glance, effectively avoiding false positives.

3. Multiple positioning methods: Different signal reception methods are suitable for different pipeline conditions, which is conducive to comparing and verifying detection results under complex pipeline conditions.

★ The peak method has strong anti-interference ability and can accurately locate and depth in dense pipeline environments. It is suitable for high-voltage lines of any voltage level, dense and complex pipeline conditions, and is the preferred positioning mode for pipeline detection;

★ The valley value method has high signal sensitivity, can receive signals from deep pipelines, and has a long detection distance. It is used to detect single pipelines with large burial depths or long distances;

The anti-interference ability and signal sensitivity of the wide peak method are between the peak method and the valley method, and can be used to detect single pipelines with large burial depths.

4. Multiple depth measurement methods

★ The translation depth measurement method is convenient for ensuring depth measurement accuracy even under complex conditions;

★ The direct reading depth measurement method is suitable for single pipeline condition depth measurement and depth reference.

Parameters

Electrical parameters

Transmitter Characteristics

LCD	5 inch high definition backlight color LCD screen
Operating frequency	512 Hz~200 KHz
Transmit modes	direct connection, induction, coupling
Spec function	Short circuit protection function
Load matching	automatic matching
Maximum output power	10 watts
Battery life	Built in rechargeable lithium battery, with a continuous working time of 10 hours after being fully charged
Size	345mmx266mmx120mm
Weight	2.8kg

Electrical parameters - continued

Receiver Characteristics

LCD	High definition backlight color LCD screen
Guidance	Color intelligent compass tracking and positioning
Transmit modes	Direct connection, induction, coupling
Detection frequency	Passive frequency: 50/60Hz, active frequency range: 50Hz to 200kHz
Four working modes	Peak value method, valley value method, wide peak method, and peak distance arrow
Signal strength	Qualitative display of graphics and quantitative display of numbers, ranging from 0 to 1000, can indicate the maximum signal strength
Dynamic gain range	0dB to 100dB
Detection depth	Maximum detection depth of 20 meters
Sound indication	True tone
Battery life	Built in rechargeable lithium battery, with a continuous working time of 10 hours after being fully charged
Working temperature	-20℃+70℃
Size	668mmx110mmx(53~288)mm
Weight	1.8kg

Accessories

