CANYON

Brand Owned by Technity Solutions Inc

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ID Electronic Tag| Marker Detector #CY-GT680

1.Summary

The CY-GTR680 is an underground electronic marker locator based on radio frequency identification technology. The locator reads the electronic marker pre-embedded in the underground pipeline by means of non-excavation and obtains the pipeline information stored in the marker, thereby achieving the purpose of accurately searching the digital management of pipelines and underground pipelines.

The locator has stable performance and simple operation. It is pre-installed with the most popular Android operating system, which is convenient for secondary development of customers. It can be widely used in the location identification and digital management of underground pipelines such as electric power, communication and gas.

2. Performance parameter

2.1 Technical Parameters

Equipment model：CY-GTR680
Screen;：5.0 inch / TFT resolution：1920*1080
Human interaction：Capacitive touch screen + Button
Memory：16G
RFID Working Frequency：125KHZ
Detection distance：230cm(MAX)
Recognition distance：200cm(MAX)
Power Supply：12V/5000mA High capacity rechargeable lithium battery（With charging protection, charging progress display）
Power consumption：Static less than 300uA；Maximum when reading a card 1500mA
Battery standby time：3months
recharging current：2000MA

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2.2 Product Features

Table 2-2 Product Features

operating system	Android 5.1
CPU	MTK6735
Main frequency	1.0~2.0GHZ
Display	5.0 Inch TFT，Resolving power：540*960
touch screen	Industrial capacitor touch screen
Memory	8 GB ROM + 1 GB RAM
Network	4G+WIFI+Bluetooth
locate	GPS/Beidou
RFID Working frequency	125KHZ
Detection distance	Max260cm① （Related to the type of identifier and the use environment）
positioning accuracy	X-Y:+/-10cm，Z:+/-10cm①
Battery	12V/5000ma Polymer lithium battery
Power consumption	working condition：less than 1200mA, position in readiness：less than 500μA
Standby time	6 months
Charging voltage	12V

①Maximum detection range and positioning accuracy are measured without interference from the surrounding signal.

2.3 Physical and environmental characteristics

Table 1-3 Physical and environmental characteristics

Operating temperature	-20℃~60℃
storage temperature	-25℃~70℃
humidity	5%~95%non-condensing
weight	2.6Kg
Drop test	1.2 meters free to fall
ESD performance	The air discharge is + 15KV, and the contact discharge is + 8KV
Sealing standard	IP65

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2. Quick Operation Manual

3.1 Key And Interface Description

Button and interface description

3.2 Quick Trigger Scan

When the system is in the off state, Click [button] button can quickly trigger the device to enter the scanning state.

Steps:

◆ In the off state, short press once [button] button，The device enters the standby state and the green status indicator is always on.

◆ In standby mode, short press once [button] button，The device enters the scan state and the green status indicator flashes.

◆ In the scan state, short press once [button] button，The device enters the standby state, and the green status indicator is always on.

3.3 Device Shutdown

In any state, long press [button] button to put the device into the shutdown state. This shutdown mode is to turn off the power, and the scanner scanning function and the Android system can be turned off at the same time.

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In the non-scanning state, if the device has no new operation beyond 60S, the device will automatically enter the shutdown state.

3.4 Android System Switch Machine

◆ In the off state, long press ⏻ button Android can be turned on.

◆ In the power on state, long press ⏻ button to close the Android system.

3.5 SIM Card Installation

SIM card seat standard specification SIM card (25mm × 15mm), other specifications of the SIM card can be installed through the conversion seat.

3.6 Device Charging

The charging voltage range is 12~18V, which can be charged by the matching charger or directly charged from the cigarette lighter of the car to charge the device.
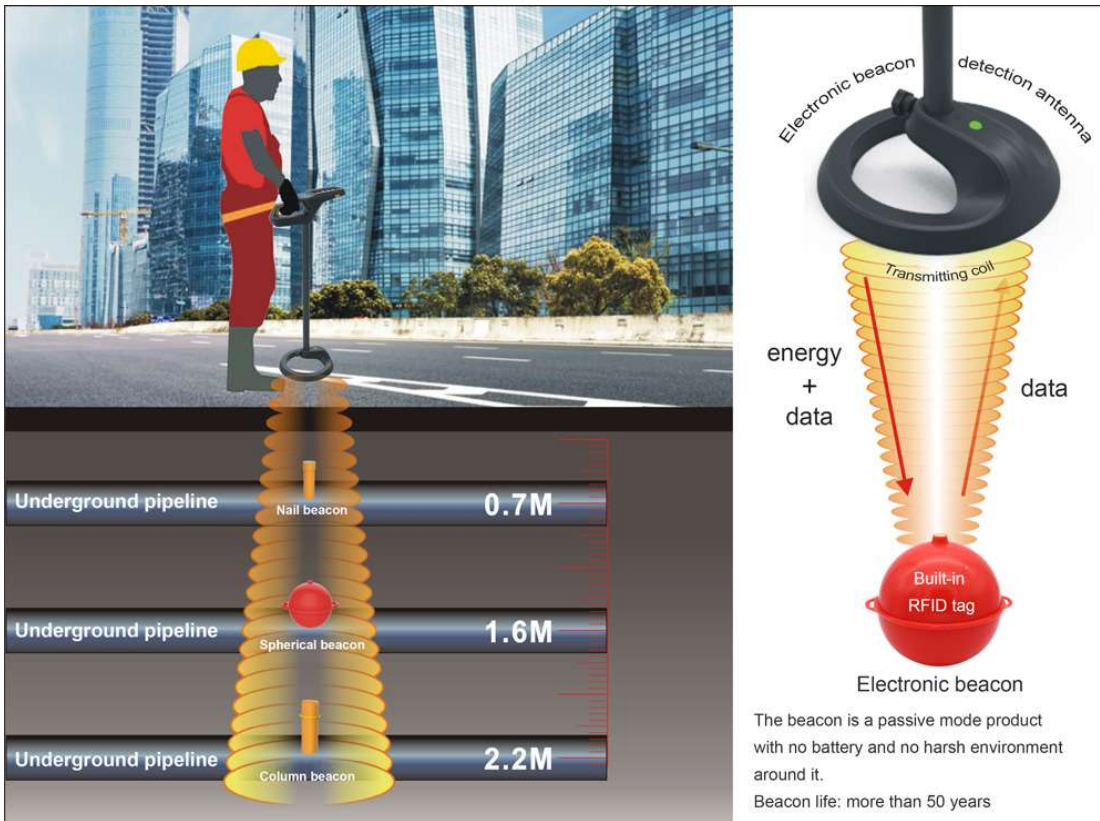
3.7 Use Of The Marker Management App

The APP can be used to detect identification tags, display marker data, geographic location, record GPS coordinates, and the like.

3. Start The Marker Management APP

Boot into the system, open the APP and manage the logo. For details, please refer to the morning news iDENT electronic identification system V1.01.

4. Precautions

1. This product is an electronic product that is transported and stored in accordance with conventional electrical equipment.

2.Avoid falling or impacting the reader from a height.

3.Do not expose the reader to high temperatures, humidity or corrosive environments.

4.Non-professionals do not open the reader shell.

5.Please use the original power adapter to charge.

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Underground pipeline — Nail beacon — 0.7M

Underground pipeline — Spherical beacon — 1.6M

Underground pipeline — Column beacon — 2.2M

Electronic beacon — detection antenna

Transmitting coil

energy + data

data

Built-in RFID tag

Electronic beacon

The beacon is a passive mode product with no battery and no harsh environment around it.
Beacon life: more than 50 years

5. Ordering Information

P/N	Product Description
#CY-GT680	ID Electronic Tag| Marker Detector, 1pcs power adapter, 1pcs car charging cable, 1pcs SIM conversion card holder, 1pcs copy of the instructions