GAZELLE®

CABLE & PIPE LOCATION AND FAULT LOCATION SOLUTION

ADDITIONAL OPTION
ACCESSORIES

Line Transmitter
G9326

Ground Rod
G9334

Direct Connection Cable
G9332

Transmitter Clamp
G9327

Cable Fault Locator A-Frame
G9325

GAZELLE®

ENHANCED ACCURACY AND FAULT LOCATION CAPABILITY

The Gazelle G9320 Receiver is a precision-engineered, professional-grade tool designed for exacting industrial applications. Built to withstand harsh environments, it features a rugged IP65-rated exterior for durability and exceptional performance under demanding conditions. With advanced detection technology and user-friendly operation modes, the G9320 ensures accurate location, pinpointing, and diagnostics of underground cables, pipelines, and faults. Engineered to meet the needs of industries, Gazelle's G9320 embodies reliability, versatility, and cutting-edge innovation.

Specification	Specification
Receiver Modes	Direct Connection
	Clamp Coupling
	Radiation
	Booster Mode
Detection Modes	Wide Peak
	Narrow Peak
	Valley Mode
	Historical Curve
	Frequency Spectrum
Active Frequencies	640Hz, 1280Hz, 8kHz, 33kHz, 82kHz, 197kHz
Max Depth Measurement	25 meters (Active Mode)
Display Interface	320×240 Dot Matrix Color LCD
Battery Type and Capacity	Lithium-ion, 7.4V nominal, >3Ah
Charger Input	AC 100-240V, 50/60Hz
Protection Rating	DC 8.4V, 2A
Operating Conditions	Temperature -25°C to 60°C
	Humidity <90%; Altitude <4500m
Dimensions	680 × 120 × 277 mm
Weight	2.0 kg

GAZELLE®

PRECISION UTILITY LOCATION WITH ENHANCED PERFORMANCE

Advanced Detection Technology
for Superior Accuracy

- Features multiple detection modes: wide peak, narrow peak, valley mode, historical curve, and frequency spectrum, providing versatile and detailed utility detection.
- Supports a broad range of active frequencies (640Hz to 197kHz) and passive detection of standard power harmonics and radio frequencies.

Industrial-Grade Color Display
for Field Visibility

- High-resolution 240×320 dot matrix color LCD screen ensures clear data readability under direct sunlight and outdoor conditions.
- Intuitive interface designed to quickly deliver precise detection information, streamlining operational efficiency on-site

Rugged Build and Portability
for Challenging Environments

- Compact design (2 kg, 277×120×680 mm) combined with IP65-rated rugged housing, delivering superior dust and water resistance.
- Reliable performance even in harsh environments, operating effectively in temperatures from -25°C to 60°C and elevations up to 4500 meters.

Versatile Operation Modes
for Every Job

- Offers multiple operation modes including direct connection, clamp coupling, radiation, and booster mode, ensuring adaptability to varied project requirements.
- Integrated software and detection modes guarantee efficient identification of utilities, significantly reducing operational downtime..

Smart Battery System & Comprehensive Accessory Kit

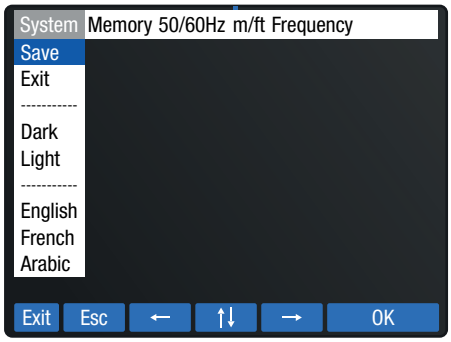
- Grounding Optimization: For accurate fault identification, position the grounding rod approximately 5 meters away from pipelines, perpendicular to the utility's direction.
- Includes essential accessories such as G9333 Receiver Charger, G9335 Depth Measurement Sensor, and a convenient soft carry case, offering a complete solution right out of the box.

Robust and Reliable Warranty Coverage

- Supported by a full 1-year manufacturer's warranty, underscoring the commitment to quality, reliability, and customer assurance.

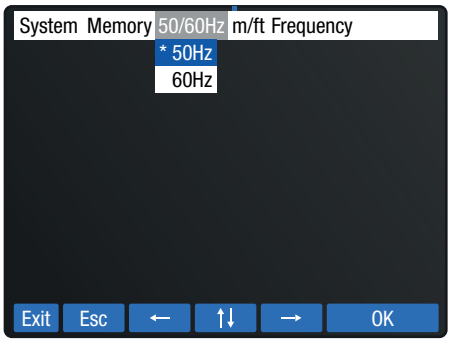
RECEIVER INTERFACE INTRODUCTION

- Speaker mute | Power on / off: Long press
- Calibration | Long press to enter the info. and menu interface
- Mode switch
- Gain +, long press and auto set 100%
- Gain -, long press and auto set 40%
- Freq seitch | Long press: Active freq. / Passive freq. switch
- Enter and exit average depth measurement
- Storage and transmission



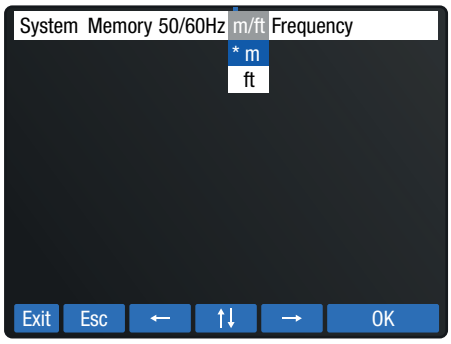
System function:

- Save the setting
- Exit the menu interface
- English/Chinese switch



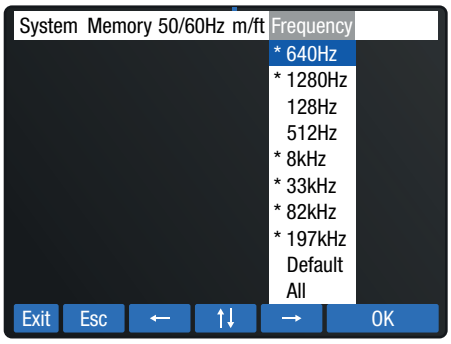
Power frequency:

- 50Hz or 60Hz optional setting



Depth unit:

- Unit optional m or ft



Active detection enable:

- Optional active frequency list
- Restore the factory default frequency
- Enable all frequencies

Versatile Transmitter

Reliable Signal Injection

- **Multiple Signal Injection Modes:** Offers direct connection, clamp coupling, radiation, and booster modes to suit varied operational environments and tracing methods.
- **Adjustable Power & Frequency Options:** Provides adjustable output (up to 15W) across multiple frequencies (640Hz to 197kHz) with automatic impedance matching for clear signal strength.
- **Robust, Field-Proven Design:** Built with rugged IP65 protection, clear sunlight-readable display, and a long-lasting rechargeable lithium battery (7.4V, >6Ah) for extended field use.

A-Frame Attachment

Pinpoint Fault Detection

- **Precise Fault Location:** Utilizes advanced step voltage detection to accurately pinpoint faults along underground cables or pipeline insulation breakdowns.
- **Intuitive Operation:** Automatically recognized by the receiver upon connection, seamlessly switching the locator into fault detection mode.
- **Easy Assembly & Use:** Probes effortlessly attach to the A-frame base, and the clear on-screen direction and signal indicators swiftly guide operators to fault sites.

Transmitter Clamp

Non-Intrusive Signal Coupling

- **Clamp-Based Signal Coupling:** Transmitter clamp efficiently couples the locating signal onto live or running cables without direct electrical contact.
- **Non-Intrusive Operation:** Does not affect the normal operation of the pipe or cable, making it safe and convenient for energized lines.
- **Optimized Clamp Spacing:** Requires 5–2 m distance between transmitting clamp and receiving clamp to reduce radiated signal interference and ensure accurate readings.

Direct Connection Cable

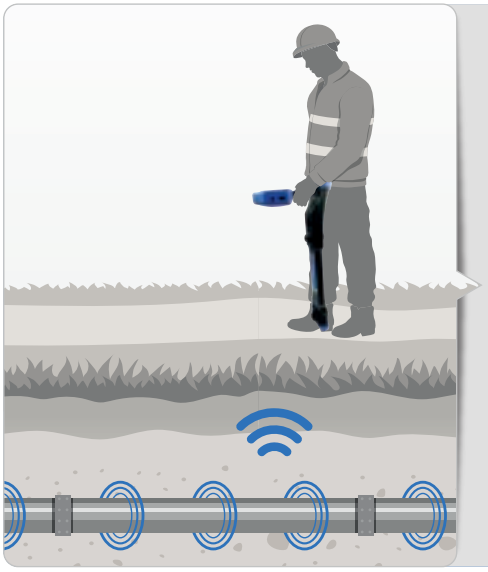
Direct High-Integrity Signal Injection

- **Direct Signal Injection:** 5-core direct connection cable feeds the transmitter signal directly into metallic pipes, telecom cables, power cables, and other metal structures.
- **Secure Dual-Clip Grounding:** Red alligator clip connects to a clean, exposed metallic section of the pipe, while the black clip connects to a grounding rod placed at least 5 m away to ensure proper grounding and low interference.
- **Safety Warning:** Transmitter output is up to 150 Vpp, so users must not touch the output clips or the target pipe while the device is operating.

Ground Rod

Optimized Grounding Performance

- **Optimized Grounding Performance:** High-conductivity, corrosion- and weather-resistant ground rods ensure stable, reliable grounding for accurate signal transmission.
- **Accurate, Low-Interference Detection:** Proper placement (over 5 m from the pipe, cable perpendicular, away from water pipes and grounding networks) minimizes interference and improves locating accuracy.
- **Enhanced Signal Clarity:** Supplied with two durable ground rods to strengthen the earth return path and deliver clearer, more consistent detection signals.



Passive Mode

Passive mode cable detection involves using a cable locator to find underground utilities by detecting naturally occurring electromagnetic signals, such as those from energized power cables or re-radiated radio signals, without applying a signal.

For live cable
Using the existing signal from cable

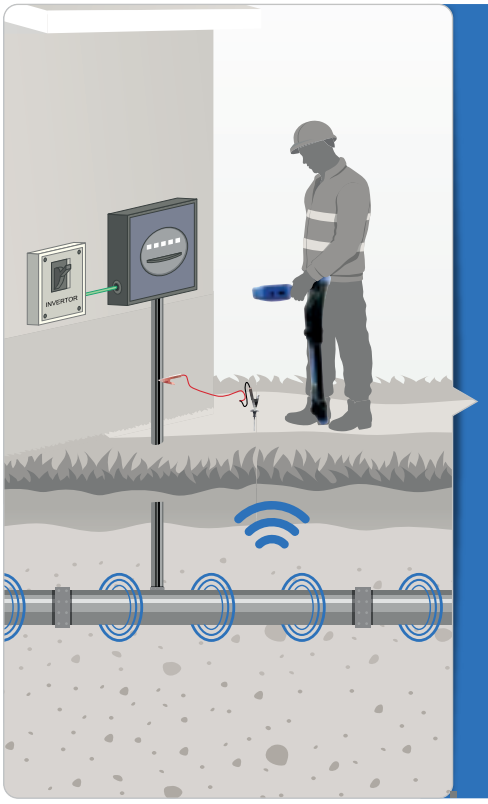
Required Tool:

G9320
Receiver

Active Mode

Active cable detection using a transmitter involves using a transmitter to apply a specific signal to a utility (cable or pipe), which is then traced by a receiver (locator). This method allows for precise location and depth estimation of both energized and de-energized utilities, making it a valuable tool for underground utility mapping and excavation safety.

ACTIVE MODE OPEARTIONS:



Direct Connection / Conductive

In active cable and pipe locating, a direct connection method involves physically attaching a transmitter's output to the target utility, creating a strong and clean signal for tracing. This is the preferred method when access to the utility is available, as it provides the most reliable signal for accurate location and tracing.

Required Tool:

G9320
Receiver

G9326
Transmitter

G9334
Ground Rod

G9332
Direct Connection Cable

Induction Mode

Active cable detection using a transmitter and induction involves applying a signal to a cable or pipe by placing the transmitter directly over the cable or pipe. The receiver detects the electromagnetic field generated by the signal, allowing the operator to trace the cable's path.

Required Tool:

G9320
Receiver

G9326
Transmitter

Clamp Mode

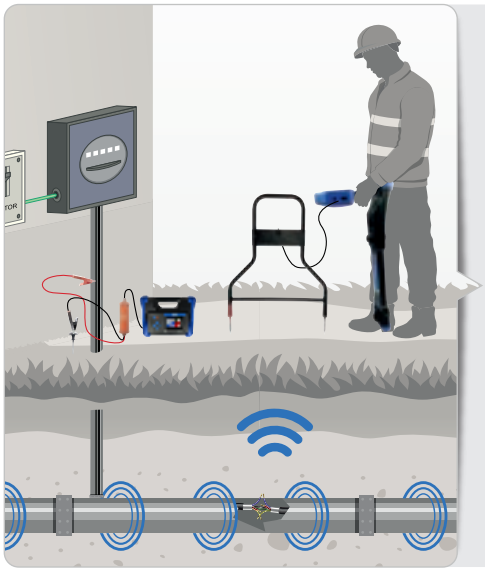
Active cable detection using a transmitter and induction clamp involves applying a signal to a cable or pipe using a transmitter and a clamp, then using a receiver to trace its path. The transmitter connected the clamp to induce a signal into the cable using an induction clamp.

Required Tool:

G9320
Receiver

G9326
Transmitter

G9327
Transmitter Clamp



Fault Locating Mode

Cable fault locating using a line locator involves tracing a cable's path and then using specialized techniques to pinpoint the exact location of a fault. This process typically involves using a transmitter to apply a signal to the cable and a receiver to detect that signal, along with an A-frame for fault pinpointing.

Required Tool:

G9320
Receiver

G9326
Transmitter

G9334
Ground Rod

G9325
A-Frame Fault Locating Kit

G9332
Direct Connection Cable