

A. Typical Applications

Item	Parameter
Description	Locator of pushrod cameras, crawler cameras and Sondes
Uses	Locating & deployed cameras and Sondes operating at frequencies of 33 kHz, 512Hz or 640Hz. Passive sweeps for buried utilities.

B. Receiver Assembly

Item	Parameter
Construction	<ul style="list-style-type: none"> - Carbon fiber reinforced antenna tube - High impact thermoplastic (ABS) injection molded housing
Weight	4.6lbs (2.1kg)
Dimensions	10.3in(L) x 4.8in(W) x 25in(H) (262mm x 122mm x 639mm)
Display Type	Sharp TFT LCD ¼ VGA color display, 3.52in (89mm)
Receiver Antennas	2 x horizontal, 1 x compass antenna – air cored
Batteries Options	<ul style="list-style-type: none"> - Rechargeable custom Lithium-ion batteries with 100-240V AC mains charger. - Replaceable (6 x standard Alkaline AA batteries) batteries can be used when required
Battery Life	<ul style="list-style-type: none"> - Alkaline – typically 12 hours intermittent use at 70°F (21°C) - Lithium-ion – typically 40 hours continuous use at 70°F (21°C) (with full backlight turned on). Re-charging cycles approx. 500 times life cycle. Battery life varies with temperature.
External Connectors	<ul style="list-style-type: none"> - 1 x Socket for USB accessories - 1 x Mini USB socket for data transfer/programming - 1 x Socket for battery charger & analogue accessories - 1 x Standard USB (Memory stick) socket for data transfer
Compliance/Approvals	<ul style="list-style-type: none"> - Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> • EN 55011 • EN 61000-4-2: A1 & A2 • EN 61000-4-3 • EN 61000-4-8: A1 • ETSI EN 300 330-2 • ETSI EN 301 489-1 • ETSI EN 301 489-3 - Complies with FCC Rules Part 15 <ul style="list-style-type: none"> • CFR 47 part 2 • CFR 47 Part 15
Standard Accessories	<ul style="list-style-type: none"> - USB data cable - 100-240V AC mains charger (Lithium-ion battery) - Shoulder bag - User handbook
Optional Accessories	<ul style="list-style-type: none"> - Portable Transmitters: Loc-1Tx, Loc-5Tx, Loc-10Tx - Sondes (waterproof self-contained transmitters for use in pipes & ducts) <ul style="list-style-type: none"> • D18-33-SR44 - 0.75in(Dia.) x 3.1in(L) (18mm x 80mm), 33 kHz, range 12ft (4m), 2 x button cell batteries • D38-33-AA – 1.5in(Dia.) x 4.1in(L) (38mm x 105mm), 33kHz, range 15ft (5m), 1 x AA battery • D64-33-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 33 kHz, range 24ft (8m), 1 x 6LR61 battery • D23F-512-AA / D23F-640-AA – 1in(Dia.) x 18in(L) (23mm x 456mm), 512Hz or 640Hz, range 20ft (7m), flexible Sonde in 3 sections for use in cast iron pipes as well as non metallic pipes, 1 x AA battery - A-frame USB (for Sheath Fault Finding)

	<ul style="list-style-type: none"> - Remote Antenna USB - Vehicle Charging Lead (Lithium-ion battery)
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C. Operational

Item	Parameter								
Information Displayed	<ul style="list-style-type: none"> - Signal strength - moving bar graph & numeric value - Mode indication ("Peak", "Sonde" location) - Proportional left/right indication - Compass: full 360° line direction indicator - Plug and Play automatic recognition of accessories - Accessory specific custom screen - Line location - depth & current measurement - Sonde location - depth measurement - Gain level (in dB) - Frequency selected - Battery condition - Speaker volume - Operating frequency - Configuration menu & submenus - Start up screen – product and USB accessories software revision - Customer definable start up screen 								
Configuration	<p>Intuitive setup menu enables user to configure:</p> <ul style="list-style-type: none"> - Setup frequency selection to toggle by "f" pushbutton - Setup location mode selection to toggle by "M" pushbutton - Sonde/line location - Units of measure (feet/meter) - Power and radio modes – 50Hz or 60Hz environments - Sound (Pitch) – normal/modulated - Language - Continuous depth/current options - Loudspeaker level - Backlight 								
Operating Frequencies	50Hz/60Hz/512Hz/640Hz/33 kHz								
Pre-defined Frequencies	<table border="1"> <thead> <tr> <th>Passive Modes</th> <th>Sonde Modes</th> </tr> </thead> <tbody> <tr> <td>Power 50 (50+150+250Hz)</td> <td>512Hz</td> </tr> <tr> <td>Power 60 (60+180+300Hz)</td> <td>640Hz</td> </tr> <tr> <td>Radio Mode (13-26 kHz)</td> <td>32.8 kHz (32,768Hz)</td> </tr> </tbody> </table>	Passive Modes	Sonde Modes	Power 50 (50+150+250Hz)	512Hz	Power 60 (60+180+300Hz)	640Hz	Radio Mode (13-26 kHz)	32.8 kHz (32,768Hz)
Passive Modes	Sonde Modes								
Power 50 (50+150+250Hz)	512Hz								
Power 60 (60+180+300Hz)	640Hz								
Radio Mode (13-26 kHz)	32.8 kHz (32,768Hz)								
Operating Modes	<ul style="list-style-type: none"> - Peak Line Mode (using two horizontal antennas) - Sonde 								
Gain Control	Manual gain using "+" or "-" with one touch to return to center (60% of FSD)								
Performance Using Single Undistorted Signal Source	<p>Locate pinpointing accuracy:</p> <ul style="list-style-type: none"> - up to 9ft (3m) – 5% of depth - over 9ft (3m) – 10% of depth <p>Depth measurement accuracy:</p> <ul style="list-style-type: none"> - 3% of depth <p>Depth range: Dependent on strength of signal radiating to locator</p>								
Compatible with Transmitter	Loc-1Tx, Loc-5Tx, Loc-10Tx								

D. Sensitivity

Item	Parameter
Mode	Sensitivity at 3.2ft (1m)
50Hz/Power mode	7.5mA
Radio mode	20µA
512Hz/640Hz	400µA
8kHz	40µA
32kHz and Above	25µA

E. Environmental

Item	Parameter
Temperature Range	Operating: -4°F to 122°F (-20°C to 50°C) Storage : -40°F to 140°F (-40°C to 60°C)
Weather Proof	IP54 and NEMA 4
Shipping Weight	37lbs (17kg) (with transmitter)
Shipping Dimension	17.5in(L) x 11.2in(W) x 30.1in(H) (765mm x 285mm x 445mm)

F. Warranty

Item	Parameter
Warranty	12 months

G. Upgrade

Item	Parameter
Software	Software can be upgraded using a PC with USB port. Programs & locator software will be available via email.

H. Features

Item	Parameter
Enhanced Features	<ul style="list-style-type: none"> - Reduced size and weight with enhanced ergonomic design - Improved power management and Lithium-ion rechargeable batteries provide longer battery life (approx 300% more) - Auto detects batteries type (Lithium-ion/Alkaline) and displays appropriate status - Non-reflective display - Enable/Disable auto shut off mode - Analogue channel - Overload protection

Disclaimer: Product and accessory specification and availability information is subject to change without prior notice.

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