



Locator **VLOC Pro** - Receiver

A. Typical Applications

Item	Parameter
Description	Multi-purpose precision locator
Uses	Locating & Pinpointing the position of buried pipes and cables

B. Receiver Assembly

Item	Parameter
Construction	Carbon fiber antenna tube. High impact thermoplastic (ABS) injection moldings housing.
Weight	5.7lbs (2.6kg)
Display type	Sharp TFT LCD ¼ VGA color display, 3.52 inch (8.9 cm)
Receiver antennas	2 x horizontal & 2 x vertical antennas – Air cored
Batteries	Battery system – the Receiver normally uses rechargeable (6 x AA Ni-MH) batteries (internal) – but replaceable (6 x standard alkaline AA batteries) batteries can be substituted when required. System operates on the standard Alkaline pack if it is inserted
Battery Life	<ul style="list-style-type: none">➤ Alkaline – typically 8 hrs intermittent use at 70 °F (21 °C)➤ Ni-MH – typically 6 hrs intermittent use at 70 °F (21 °C)➤ Re-charging cycles approx. 500 times life cycle.
External connectors	<ul style="list-style-type: none">➤ 2 x USB (Use large USB socket for accessories; use small USB socket for data transfer and programming)➤ 1 x socket for battery charger
Approvals	<ul style="list-style-type: none">➤ Complies with European standard CE (Directive 99/5/EC)<ul style="list-style-type: none">○ ETSI EN 300 330-2 : 2006○ ETSI EN 301 489-1 : 2005○ ETSI EN 301 489-3 : 2002➤ Complies with FCC Rules Part 15<ul style="list-style-type: none">○ CFR 47 part 2 : 2004○ CFR 47 Part 15 : 2006○ ANSI C63.4: 2003

C. Operational

Item	Parameter
Information displayed	<ul style="list-style-type: none">➤ Signal strength - moving bargraph & numeric value➤ Mode indication (Peak, Null, broad peak location and Sonde)➤ Left/right indication



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	<ul style="list-style-type: none"> ➤ Depth measurement ➤ Measurement of transmitter current on target line ➤ Sonde location & depth measurement ➤ Gain level ➤ Battery condition (active pack) ➤ Speaker volume 																																													
Configuration	<p>Intuitive setup menu enables user to configure:</p> <ol style="list-style-type: none"> 1. Selection of Frequencies available 2. Sonde / line 3. Units of measure (feet/meters) 4. Power Mode – 50 Hz or 60Hz environments 																																													
Operating Frequencies	<p>Any frequency between 50 Hz and 200kHz (Can be defined at the Customers request). Units shipped are configured for 512Hz, 640Hz, 8kHz, 33kHz, 65kHz, 200kHz, unless otherwise specified.</p>																																													
Pre-defined frequencies	<p>Power Radio:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">50 Hz</td> <td style="text-align: center;">440 Hz</td> <td style="text-align: center;">8 kHz</td> </tr> <tr> <td style="text-align: center;">60 Hz</td> <td style="text-align: center;">484 Hz</td> <td style="text-align: center;">9 kHz</td> </tr> <tr> <td style="text-align: center;">98 Hz</td> <td style="text-align: center;">500 Hz</td> <td style="text-align: center;">16.9 kHz</td> </tr> <tr> <td style="text-align: center;">100 Hz</td> <td style="text-align: center;">512 Hz</td> <td style="text-align: center;">22 kHz</td> </tr> <tr> <td style="text-align: center;">120 Hz</td> <td style="text-align: center;">560 Hz</td> <td style="text-align: center;">29 kHz</td> </tr> <tr> <td style="text-align: center;">128 Hz</td> <td style="text-align: center;">577 Hz</td> <td style="text-align: center;">33 kHz</td> </tr> <tr> <td style="text-align: center;">163 Hz</td> <td style="text-align: center;">604 Hz</td> <td style="text-align: center;">38 kHz</td> </tr> <tr> <td style="text-align: center;">208 Hz</td> <td style="text-align: center;">624 Hz</td> <td style="text-align: center;">65 kHz</td> </tr> <tr> <td style="text-align: center;">256 Hz</td> <td style="text-align: center;">640 Hz</td> <td style="text-align: center;">80 kHz</td> </tr> <tr> <td style="text-align: center;">273 Hz</td> <td style="text-align: center;">680 Hz</td> <td style="text-align: center;">83 kHz</td> </tr> <tr> <td style="text-align: center;">280 Hz</td> <td style="text-align: center;">760 Hz</td> <td style="text-align: center;">89 kHz</td> </tr> <tr> <td style="text-align: center;">320 Hz</td> <td style="text-align: center;">800 Hz</td> <td style="text-align: center;">121 kHz</td> </tr> <tr> <td style="text-align: center;">340 Hz</td> <td style="text-align: center;">968 Hz</td> <td style="text-align: center;">130 kHz</td> </tr> <tr> <td style="text-align: center;">380 Hz</td> <td style="text-align: center;">982 Hz</td> <td style="text-align: center;">200 kHz</td> </tr> <tr> <td style="text-align: center;">400 Hz</td> <td style="text-align: center;">1 kHz</td> <td></td> </tr> </table>	50 Hz	440 Hz	8 kHz	60 Hz	484 Hz	9 kHz	98 Hz	500 Hz	16.9 kHz	100 Hz	512 Hz	22 kHz	120 Hz	560 Hz	29 kHz	128 Hz	577 Hz	33 kHz	163 Hz	604 Hz	38 kHz	208 Hz	624 Hz	65 kHz	256 Hz	640 Hz	80 kHz	273 Hz	680 Hz	83 kHz	280 Hz	760 Hz	89 kHz	320 Hz	800 Hz	121 kHz	340 Hz	968 Hz	130 kHz	380 Hz	982 Hz	200 kHz	400 Hz	1 kHz	
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Operating modes	<ul style="list-style-type: none"> ➤ Peak (using two horizontal antennas) ➤ Broad Peak (using one horizontal antenna) ➤ Null (using two vertical antennas) with Left/Right Display 																																													
Gain Control	<p>Push button and one touch - auto range</p>																																													
Performance using single undistorted signal source	<p>Locate pinpointing accuracy:</p> <ul style="list-style-type: none"> ↻ up to 3m – 5% of depth ↻ over 3m – 10% of depth 																																													



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	Depth measurement accuracy: ↳ 5% of depth
	Current measurement accuracy: ↳ 5% of actual current
	Depth range : Dependent on strength of signal radiating to locator – generally up to 5m (15 feet)

D. Environmental

Item	Parameter
Temperature Range	Operating / Storage : - 4 °F to 122 °F (-20 °C to 50 °C)
Weatherproof	IP54 and NEMA 4
Shipping weight (Receiver, Transmitter & Accessories only)	38.6 lbs (17.5Kg)
Shipping dimension (Receiver, Transmitter & Accessories only)	30.1 inch (H) x 17.5 inch (W) x 11.2 inch (L) 765.04mm (H) x 444.79mm (W) x 284.67mm (L)

E. Warranty

Item	Parameter
Warranty	12 months

F. Upgrade

Item	Parameter
Software	Software can be upgraded using a PC with USB port. Initially install program & locator software will be available via email or CD. Upgrades (not requiring hardware changes) will be available free of charge.

