

## A. Typical Applications

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

## B. Receiver Assembly

Item	Parameter
Construction	<ul style="list-style-type: none"> <li>- Carbon fiber reinforced antenna tube</li> <li>- High impact thermoplastic (ABS) injection molded housing</li> </ul>
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 Peak antennas, 1 x null antenna, 1 x compass antenna
Batteries Options	<ul style="list-style-type: none"> <li>- Rechargeable custom Lithium-ion batteries with 100-240V AC mains charger.</li> <li>- Replaceable (6 x standard Alkaline AA batteries) batteries can be used when required</li> </ul>
Battery Life	<ul style="list-style-type: none"> <li>- Alkaline – typically 12 hours intermittent use at 70°F (21°C)</li> <li>- Lithium-ion – typically 40 hours intermittent use at 70°F (21°C) (with full backlight turned on). Re-charging cycles approx. 500 times life cycle. Battery life varies with temperature.</li> </ul>
Bluetooth	<ul style="list-style-type: none"> <li>- Plug and Play custom Bluetooth interface</li> </ul>
External Connectors	<ul style="list-style-type: none"> <li>- 1 x Socket for accessories port (analogue &amp; digital)</li> <li>- 1 x Mini USB socket for data transfer / programming</li> <li>- 1 x Socket for battery charger</li> <li>- 1 x Standard USB (Memory stick) socket for data transfer</li> </ul>
Compliance/Approvals	<ul style="list-style-type: none"> <li>- Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> <li>• EN 61000-6-4: 2007</li> <li>• EN 61000-4-3: 2006</li> <li>• EN 61000-4-2: 1995 A1 &amp; A2</li> <li>• EN 61000-4-8: 1994 A1</li> <li>• ETSI EN 300 330-2: 2006</li> <li>• ETSI EN 301 489-1: 2005</li> <li>• ETSI EN 301 489-3: 2002</li> </ul> </li> <li>- Complies with FCC Rules Part 15 <ul style="list-style-type: none"> <li>• CFR 47 part 2: 2004</li> <li>• CFR 47 Part 15: 2006</li> <li>• ANSI C63.4: 2003</li> </ul> </li> </ul>
Standard Accessories	<ul style="list-style-type: none"> <li>- USB data cable</li> <li>- 100-240V AC mains charger (Lithium-ion battery)</li> <li>- Soft carry bag (Roll around bag if purchased with transmitter)</li> <li>- User handbook</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- Portable Transmitters: Loc-1Tx, Loc-5Tx, Loc-10Tx</li> <li>- Sondes (waterproof self-contained transmitters for use in pipes &amp; ducts) <ul style="list-style-type: none"> <li>• D18-33-SR44 - 0.75in(Dia.) x 3.1in(L) (18mm x 80mm), 33 kHz, range 15ft (4.5m), 2 x button cell batteries</li> <li>• D38-33-AA – 1.5in(Dia.) x 4.1in(L) (38mm x 105mm), 33 kHz, range 16.3ft (5m), 1 x AA battery</li> <li>• D38-09-AA – 1.5in(Dia.) x 4.1in(L) (38mm x 105mm), 9.82 kHz, range 16.3ft (5m), 1 x AA battery</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• D38-83-AA – 1.5in(Dia.) x 4.1in(L) (38mm x 105mm), 83 kHz, range 16.3ft (5m), 1 x AA battery</li> <li>• D64-33-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 33 kHz, range 26ft (8m), 1 x 6LR61 battery</li> <li>• D64-09-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 9.82 kHz, range 26ft (8m), 1 x 6LR61 battery</li> <li>• D64-83-6LR61 – 2.5in(Dia.) x 7.3in(L) (64mm x 186mm), 83 kHz, range 26ft (8m), 1 x 6LR61 battery</li> <li>• 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</li> <li>- A-frame USB (for Sheath Fault Finding)</li> <li>- Remote Antenna USB</li> <li>- Custom Bluetooth Module (Easy Fit)</li> <li>- GPS Module (Requires custom Bluetooth module above)</li> <li>- Vehicle charging lead (Lithium-ion battery)</li> </ul>
--	--

## C. Operational

Item	Parameter
<b>Information Displayed</b>	<ul style="list-style-type: none"> <li>- Signal strength - moving bar graph &amp; numeric value</li> <li>- Mode indication ("Peak", "Null", "Broad Peak", "Sonde" and "Peak with proportional left/right arrows" location)</li> <li>- Proportional left/right indication</li> <li>- Compass: full 360° line direction indicator</li> <li>- Plug and play automatic recognition of accessories</li> <li>- Accessory specific custom screen</li> <li>- Line location - depth &amp; current measurement</li> <li>- Sonde location - depth measurement</li> <li>- Gain level (in dB)</li> <li>- Frequency selected</li> <li>- Battery condition</li> <li>- Speaker volume</li> <li>- Operating frequency</li> <li>- Bluetooth and GPS status</li> <li>- Configuration menu &amp; submenus</li> <li>- Start up screen – product and USB accessories software revision</li> <li>- Customer definable start up screen</li> </ul>
<b>Configuration</b>	<p>Intuitive setup menu enables user to configure:</p> <ul style="list-style-type: none"> <li>- Setup frequency selection to toggle by "f" pushbutton</li> <li>- Setup location mode selection to toggle by "m" pushbutton</li> <li>- Sonde / line location</li> <li>- Units of measure (feet/meter)</li> <li>- Power and radio modes – 50Hz or 60Hz environments</li> <li>- Sound (Pitch) – normal/modulated</li> <li>- Language</li> <li>- Continuous depth/current options</li> <li>- Loudspeaker level</li> <li>- Backlight</li> </ul>

	<ul style="list-style-type: none"><li>- Bluetooth pairing if fitted</li><li>- Auto shut down – 2 or 5 minutes or never</li></ul>					
Internal Data Logging	<ul style="list-style-type: none"><li>- At least 1000 records.</li><li>- All parameters stored at each location including Depth, Current, Mode, Gain Setting, and Frequency.</li><li>- If connected to GPS (via Bluetooth) data also recorded with coordinates and date time.</li><li>- Files can be saved as .kml, .txt, .xls, .shp.</li><li>- Data transfer program MyLocator2 available from <a href="http://www.vivax-metrotech.com">www.vivax-metrotech.com</a></li></ul>					
Operating Frequencies	Frequency set listed below.					
Pre-defined Frequencies	Power 50 (50+150+250Hz)	484Hz	8.44 kHz (8,440Hz)			
	Power 60 (60+180+300Hz)	491Hz	9.5 kHz (9,500Hz)			
	Radio Mode (22.1 kHz)	512Hz	9.82 kHz (9,820Hz)			
	RF EUR (19.8 kHz)	560Hz	10 kHz (10,000Hz)			
	50Hz	577Hz	12 kHz (12,000Hz)			
	60Hz	584Hz	16.9 kHz (16,900Hz)			
	64Hz	604Hz	22.5 kHz (22,500Hz)			
	75Hz	624Hz	29.4 kHz (29,430Hz)			
	98Hz	640Hz	CATV (31,468Hz)			
	CP 100	680Hz	32.8 kHz (32,768Hz)			
	CP 120	760Hz	38 kHz (38,000Hz)			
	128Hz	800Hz	65.5 kHz (65,536Hz)			
	163Hz	815 kHz	78.125 kHz (78,125Hz)			
	208Hz	920 kHz	78.132 kHz (78,132Hz)			
	220Hz	968 kHz	80.4 kHz (80,430Hz)			
	256Hz or SD-USA	982 kHz	82.3kHz (82,312Hz)			
	273Hz	1.02 kHz (1,024Hz)	82.5 kHz (82,488Hz)			
	280Hz	1.03 kHz (1,030Hz)	83.1 kHz (83.077Hz)			
	320Hz or SD-EUR	1.09 kHz (1,090Hz)	89 kHz (89,000Hz)			
	340Hz	1.17 kHz (1,170Hz)	118 kHz (117,850Hz)			
	380Hz	1.45 kHz (1,450Hz)	121 kHz (121,000Hz)			
	400Hz	2.0kHz (2,000Hz)	128 kHz (128,000Hz)			
	440Hz	8.01 kHz (8,010Hz)	131 kHz (131,072Hz)			
	460Hz	8.19 kHz (8,192Hz)	200 kHz (200,000Hz)			
	480Hz					
	<p>Signal Direction – Some specific models include a feature called SD (Signal Direction) in addition to the above the transmitter will have two combinations of SD frequency.</p> <table><tr><td>SD-USA</td><td>256Hz/512Hz</td></tr><tr><td>SD-EUR</td><td>320Hz/640Hz</td></tr></table> <p>Vivax-Metrotech Corporation retains the right to make additions or deletions to this list at any time.</p>			SD-USA	256Hz/512Hz	SD-EUR
SD-USA	256Hz/512Hz					
SD-EUR	320Hz/640Hz					
Operating Modes	<ul style="list-style-type: none"><li>- Peak</li><li>- Null</li><li>- Sonde</li><li>- Broad Peak</li><li>- Peak with proportional left/right arrows</li></ul>					
Gain Control	Manual gain using “+” or “-” with one touch to return to center (60% of FSD)					

<b>Data Logging</b>	<ul style="list-style-type: none"> <li>- 1000 records</li> <li>- Records include depth, current, frequency, mode, gain setting, signal strength, GPS coordinate, date and time (if Bluetooth active)</li> </ul>
<b>Data Transfer</b>	<ul style="list-style-type: none"> <li>- Uses vivax-metrotech software application tool available free of charge from <a href="http://www.vivax-metrotech.com">www.vivax-metrotech.com</a>. Data can be saved in following format: xlx, txt, fhp, kml (Google earth)</li> </ul>
<b>Performance Using Single Undistorted Signal Source</b>	Locate pinpointing accuracy: <ul style="list-style-type: none"> <li>- up to 9ft (3m) – 5% of depth</li> <li>- over 9ft (3m) – 10% of depth</li> </ul>
	Depth measurement accuracy: <ul style="list-style-type: none"> <li>- 3% of depth</li> </ul>
	Current measurement accuracy: <ul style="list-style-type: none"> <li>- 5% of actual current – up to 9ft (3m)</li> <li>- 10% of actual current – over 9ft (3m)</li> </ul>
	Depth range: Dependent on strength of signal radiating to locator
<b>Compatible with Transmitter</b>	Loc-1Tx, Loc-5Tx, Loc-10Tx

## D. Sensitivity

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

## E. Environmental

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

## F. Warranty

Item	Parameter
<b>Warranty</b>	12 months

## G. Upgrade

Item	Parameter
<b>Software</b>	Software can be upgraded using a PC with USB port. Programs & locator software will be available via MyLocator2.

## H. Holux Bluetooth GPS (Optional Accessory)

Item	Parameter
<b>Overview</b>	The M-1200 high performance Bluetooth™ GPS Receiver which featured with: <ul style="list-style-type: none"> <li>- Built-in rechargeable Lithium-ion battery without external power supply</li> </ul>

<b>Weight</b>	- 0.07lbs (30g)
<b>Dimension</b>	- 2.63in(L) x 0.9in(W) x 0.63in(H) (67mm x 23mm x 16mm)
<b>Specification</b>	<ul style="list-style-type: none"> <li>- Tracks up to 32 satellites</li> <li>- Receiver: L1, 1575.42 MHz</li> <li>- C/A code: 1.023 MHz</li> <li>- Update rate: 1Hz</li> <li>- Antenna type: built-in patch antenna</li> <li>- Minimum signal tracked: -159dBm</li> <li>- On/Off switch: slide switcher</li> <li>- Lithium-ion battery lasts for 15 hours of use</li> <li>- Accuracy better than 3m when receiving SBAS correction signal</li> </ul>
<b>LED Indication</b>	<ul style="list-style-type: none"> <li>- Bluetooth</li> <li>- Navigation update</li> <li>- Battery/charger status indication</li> </ul>
<b>Temperature Range</b>	<ul style="list-style-type: none"> <li>- Store Temperature <ul style="list-style-type: none"> <li>• -4°F to 140°F (-20°C to 60°C)</li> <li>• -22°F to 176°F (-30°C to 80°C) (Without Lithium-ion battery)</li> </ul> </li> <li>- Operation Temperature: 14°F to 140°F (-10°C to 60°C)</li> </ul>

## I. Features

Item	Parameter
<b>Enhanced Features</b>	<ul style="list-style-type: none"> <li>- Reduced size and weight with enhanced ergonomic design</li> <li>- Improved power management and Lithium-ion rechargeable batteries provide longer battery life (approx 300% improvement from vLocPro)</li> <li>- Auto detects batteries type (Lithium-ion/Alkaline) and displays appropriate status</li> <li>- Non-reflective display</li> <li>- Enable/Disable auto shut off mode</li> <li>- USB data logging (Future feature)</li> <li>- Analogue channel (Future feature)</li> <li>- Internal data logging (1000 records)</li> </ul>

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

<b>USA</b> <b>Vivax-Metrotech Corp.</b> 3251 Olcott Street, Santa Clara, CA 95054, USA  T/Free: +1-800-446-3392 Tel: +1-408-734-1400 Fax: +1-408-734-1415  <a href="mailto:sales@vxmt.com">sales@vxmt.com</a> <a href="http://www.vivax-metrotech.com">www.vivax-metrotech.com</a>	<b>Canada</b> <b>Vivax Canada Inc.</b> 400 Esna Park Drive, Unit 17, Markham, Ontario, L3R 3K2, Canada  Tel: +1-289-846-3010 Fax: +1-905-752-0214  <a href="mailto:CanadianSales@vxmt.com">CanadianSales@vxmt.com</a> <a href="http://www.vivax-metrotech.com">www.vivax-metrotech.com</a>	<b>Europe</b> <b>SebaKMT Seba</b> <b>Dynatronic Mess-und</b> <b>Ortungstechnik GmbH</b> Dr.-Herbert-lann-Str. 6, 96148 Baunach, Germany  Tel: +49-9544-680 Fax: +49-9544-2273  <a href="mailto:service@sebakmt.com">service@sebakmt.com</a> <a href="http://www.sebakmt.com">www.sebakmt.com</a>	<b>Australasia</b> <b>SebaKMT AUS</b> Unit 1, 176 South Creek Road, Cromer NSW 2009, Australia  Tel: +61-2-9972-9244 Fax: +61-2-9972-9433  <a href="mailto:sales@sebakmtaus.com">sales@sebakmtaus.com</a> <a href="mailto:service@sebakmtaus.com">service@sebakmtaus.com</a> <a href="http://www.sebakmtaus.com">www.sebakmtaus.com</a>	<b>China</b> <b>Leidi Utility Supply</b> <b>(Shanghai) Ltd.</b> Rm405 3rd Building No. 641, Tianshan Rd, Shanghai, China 200336  Tel: +86-21-5187-3880 Fax: +86-21-5168-5880  <a href="mailto:info@leidi.cn">info@leidi.cn</a> <a href="http://www.leidi.com">www.leidi.com</a>
--	--	---	---	--