

**VIVAX**  
**METROTECH**

# vLoc3-Cam

Technical Specifications V1.0



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## A. Typical Applications

Item	Parameter
<b>Description</b>	Multi-purpose sonde and camera system locator
<b>Designed Use</b>	Locating & pinpointing the position of sondes, push camera sondes, crawler camera sondes, pushrod and some buried utilities

## B. Characteristics

Item	Parameter
<b>Construction</b>	High impact thermoplastic (ABS) injection molded housing
<b>Weight</b>	4.6lbs (2.1kg)
<b>Dimensions</b>	12.6in(L) x 4.9in(W) x 26.6in(H) (321mm x 124mm x 676mm)
<b>Display Type</b>	Transmissive 480 x 272 Pixel, 16-bit Color, High Visibility LCD, 4.3"
<b>Receiver Antennas</b>	Two sets of 3D antennas
<b>Battery</b>	<ul style="list-style-type: none"> <li>- Six x AA Alkaline batteries</li> <li>- Optional rechargeable custom Lithium-ion batteries with 100-240V AC mains charger</li> </ul>
<b>Battery Life</b>	<ul style="list-style-type: none"> <li>- Alkaline – typically 12 hours intermittent use at 70°F (21°C)</li> <li>- Lithium-ion – typically 27 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>
<b>Environmental</b>	<ul style="list-style-type: none"> <li>- IP65 and NEMA 4</li> </ul>
<b>External Connectors</b>	<ul style="list-style-type: none"> <li>- Mini USB socket for firmware updates</li> <li>- Accessory Socket – to charge the optional rechargeable batteries</li> <li>- Bluetooth Port – to install optional Bluetooth module (factory ditted)</li> </ul>
<b>Temperature Range</b>	<ul style="list-style-type: none"> <li>- Operating: -4°F to 122°F (-20°C to 50°C)</li> <li>- Storage: -40°F to 140°F (-40°C to 60°C)</li> </ul>
<b>Compliance and Approvals</b>	<ul style="list-style-type: none"> <li>- Complies with European standard CE (Directive 99/5/EC) <ul style="list-style-type: none"> <li>• EN 55011</li> <li>• EN 61000-4-2: A1 &amp; A2</li> <li>• EN 61000-4-3</li> <li>• EN 61000-4-8: A1</li> <li>• ETSI EN 300 330-2</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• ETSI EN 301 489-1</li> <li>• ETSI EN 301 489-3</li> <li>- Complies with FCC Rules Part 15             <ul style="list-style-type: none"> <li>• CFR 47 part 2</li> <li>• CFR 47 Part 15</li> </ul> </li> </ul>
<b>Standard Accessories (comes with receiver)</b>	<ul style="list-style-type: none"> <li>- Mini USB cable for firmware updates</li> <li>- Six x AA Alkaline batteries</li> <li>- Six x AA Alkaline battery holder</li> <li>- Soft receiver carry bag</li> <li>- User manual</li> </ul>
<b>Compatible Accessory Options</b>	<ul style="list-style-type: none"> <li>- Bluetooth Module (Factory fitted)</li> <li>- External GPS Module</li> <li>- Vehicle Charging DC Lead</li> <li>- Range of Sondes (waterproof self-contained transmitters for use in pipes &amp; ducts)</li> </ul>

## C. Operational

Item	Parameter
<b>Information Displayed</b>	<ul style="list-style-type: none"> <li>- Standard “Bar graph” peak locate</li> <li>- Dedicated Sonde Locate - directing arrow to move to the Sonde position along the polar axis</li> <li>- Signal strength - moving bar graph &amp; numeric value</li> <li>- Line location and depth</li> <li>- Sonde location and depth</li> <li>- Gain level (in dB)</li> <li>- Frequency selected</li> <li>- Battery condition</li> <li>- Speaker volume</li> <li>- Optional Bluetooth status</li> <li>- Product configuration menu &amp; submenus</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>- Locating and Screen View – navigation using long or short press of the “m” pushbutton</li> </ul>

	<ul style="list-style-type: none"> <li>- Units of measure (feet/meters)</li> <li>- Sound (Pitch) – normal/modulated</li> <li>- Language</li> <li>- Continuous depth option</li> <li>- Loudspeaker level</li> <li>- Backlight</li> <li>- Bluetooth pairing if fitted</li> <li>- Auto shut down – configurable to power down at five minutes, ten minutes, or never</li> </ul>	
<b>Data Transfer</b>	Uses Vivax-Metrotech “MyLocator” 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 xlx, txt, shp, kml (Google earth) formats.	
<b>Operating Frequencies</b>	<ul style="list-style-type: none"> <li>- Sonde – 512Hz, 640Hz, 8.19kHz, 9.82kHz, 33kHz, and 83kHz</li> <li>- Pushrod and Line trace – 83kHz</li> <li>- Power 50Hz and 60Hz</li> <li>- Radio - 10kHz - 22.7kHz bandwidth</li> </ul>	
<b>Operating Modes</b>	<ul style="list-style-type: none"> <li>- Pushrod and Line Trace – Classic Locate (2-section Bar graph)</li> <li>- Sonde Locate</li> </ul>	
<b>Gain / Scaling Control</b>	Manual gain using “+” or “-” with one touch to return to center (60% of FSD)	
<b>Accuracy</b>	Locate pinpointing accuracy:	<ul style="list-style-type: none"> <li>- Over 9ft (3m) – 5% of depth</li> <li>- Up to 9ft (3m) – 3% of depth</li> </ul>
	Depth measurement accuracy:	3% of depth
	Current measurement accuracy:	<ul style="list-style-type: none"> <li>- 5% of actual current – over 9ft (3m)</li> <li>- 3% of actual current – up to 9ft (3m)</li> </ul>
	Depth range:	Dependent on strength of signal radiating to locator
	Performance rated using a single undistorted signal source	
<b>Compatible Transmitters</b>	1-Watt = Loc-1Tx and VM-550FF 5-Watt = Loc-5STx 10-Watt = Loc-10Tx	

## D. Shipping and Packaging

Item	Parameter
Shipping Weight	10.5lbs (4.75kg)

<b>Shipping Dimension</b>	16.5in(L) x 11in(W) x 27.6in(H) (420mm x 280mm x 700mm)
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**E. Warranty**

<b>Item</b>	<b>Parameter</b>
<b>Warranty</b>	<ul style="list-style-type: none"><li>- Two years</li><li>- Optional extended warranty available</li></ul>

**F. Firmware Updates**

<b>Item</b>	<b>Parameter</b>
<b>Software</b>	Software can be upgraded using a PC with USB port. Programs & locator software are available via MyLocator3 app

All products are designed and manufactured in accordance with ISO 9001:2008.

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