



VIVAX
METROTECH

vLoc3-Cam

Technical Specifications V1.8



Worldwide Locations

World Headquarters, United States of America

Vivax-Metrotech Corporation

3251 Olcott Street, Santa Clara, CA 95054, USA

T/Free : 1-800-446-3392

Tel : +1-408-734-3880

Fax : +1-408-734-1415

Website: www.vivax-metrotech.com

Email : SalesUSA@vxmt.com

Central/South America and the Caribbean

Ventas para América Latina

3251 Olcott Street, Santa Clara, CA 95054, USA

T/Free : 1-800-446-3392

Tel : +1-408-734-3880

Fax : +1-408-743-5597

Website: www.vivax-metrotech.com

Email : LatinSales@vxmt.com

Canada

Vivax Canada, Inc.

41 Courtland Ave Unit 8, Vaughan, ON L4K 3T3, Canada

Tel : +1-289-846-3010

Fax : +1-905-752-0214

Website: www.vivax-metrotech.ca

Email : SalesCA@vxmt.com

United Kingdom

Vivax-Metrotech Ltd.

Unit 1, B/C Polden Business Centre, Bristol Road, Bridgwater, Somerset, TA6 4AW, UK

Tel : +44(0)1793 822679

Website: www.vivax-metrotech.co.uk

Email : SalesUK@vxmt.com

France

Vivax-Metrotech SAS

Technoparc - 1 allée du Moulin Berger, 69130 Ecully, France

Tel : +33(0)4 72 53 03 03

Fax : +33(0)4 72 53 03 13

Website: www.vivax-metrotech.fr

Email : SalesFR@vxmt.com

Germany

Metrotech Vertriebs GmbH

Am steinernen Kreuz 10a
96110 Schesslitz

Tel : +49 9542 77227-43

Website: www.vivax-metrotech.de

Email : SalesEU@vxmt.com

China

Vivax-Metrotech (Shanghai) Ltd.

Building 10, Lane 1158 Zhongxin Rd.,
Songjiang District, Shanghai, China, 201615

Tel : +86-21-5109-9980

Website: www.vivax-metrotech.com

Email : SalesCN@vxmt.com.cn

A. Description and Typical Applications

Item	Parameter
Model Name	vLoc3-Cam
Model Number	VX225-01
Description	Sonde locator with passive locate modes
Intended Use	Locating and pinpointing the position of sondes, push camera sondes, crawler camera sondes, pushrods, and some buried utilities.

B. Characteristics

Item	Parameter
Construction	High-impact thermoplastic (ABS) injection molded housing
Weight	4.6lbs (2.1kg)
Dimensions	12.6in(L) x 4.9in(W) x 26.6in(H) (321mm x 124mm x 676mm)
Display Type	High-Visibility Color Display, 4.3"/10cm with 480 x 272 resolution
Receiver Antennas	Two sets of Omnidirectional Antennas, each comprising: <ul style="list-style-type: none"> • Two Compass antennas • Two Horizontal antennas • Two Vertical antennas
Batteries	<ul style="list-style-type: none"> - Six x AA Alkaline batteries - Optional rechargeable custom Lithium-ion batteries with 100-240V AC mains charger.
Battery Life	<ul style="list-style-type: none"> - Alkaline – typically 12 hours of intermittent use at 70°F (21°C) - Optional Lithium-ion – typically 27 hours of intermittent use at 70°F (21°C) <p>* With backlight activated, Battery life varies with temperature; Li-ion re-charging cycles are approximately 500 times the life cycle</p>
Environmental	IP65 and NEMA 4
External Connectors	<ul style="list-style-type: none"> - Mini USB socket for software updates - Accessory Socket – to charge the optional rechargeable batteries - Bluetooth Port – to install optional Bluetooth module
Temperature Range	<ul style="list-style-type: none"> - Operating: -4°F to 122°F (-20°C to 50°C) - Storage: -40°F to 140°F (-40°C to 60°C)
Compliance and Approvals	<ul style="list-style-type: none"> - Complies with European standard CE (Directive 99/5/EC) - Complies with FCC Rules Part 15 <ul style="list-style-type: none"> • CFR 47 part 2

	<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 	<ul style="list-style-type: none"> • CFR 47 Part 15
Manufacturing	Designed and manufactured per ISO 9001:2015	
What's In the Box	<ul style="list-style-type: none"> - vLoc3-Cam Receiver - Mini USB cable for firmware updates - Six x AA Alkaline batteries - Six x AA Alkaline battery holder - User manual 	
Compatible Accessories	<ul style="list-style-type: none"> - Bluetooth Module - GPS Module - Vehicle Charging DC Lead - Range of Sondes (waterproof, self-contained transmitters for use in nonmetallic pipes & ducts) 	

C. Operational

Item	Parameter
Information Displayed	<p>Status Bar Information:</p> <ul style="list-style-type: none"> - Antenna configuration: Peak line locate or Sonde - Sonde or Line depth - push button or continuous (selection in the menu) - Battery condition - Speaker volume - Bluetooth and GNSS status (If installed) <p>Sonde Locate Screen:</p> <ul style="list-style-type: none"> - Blue circle icons represent rear and forward sonde locate points - Directional arrow pointing to the forward/rear locate points and sonde location - Sonde icon - Signal strength in moving bar graphs with a numeric scale - Sonde depth – push button or continuous (selection in the menu) - Sonde frequency <p>Pushrod Locate screen (Classic display):</p> <ul style="list-style-type: none"> - Signal strength in moving bar graphs with a numeric scale

	<ul style="list-style-type: none"> - Gain level (in dB) - Active frequency - Depth and logging option (if Bluetooth is installed) <p>Information screen:</p> <ul style="list-style-type: none"> - Depth - GPS co-ordinates - Log number <p>Customer definable start-up screen</p>
<p>Locate Perspectives</p>	<ul style="list-style-type: none"> - Classic Locate – moving bar graph with a value showing signal strength - Sonde Locate Screen – directing arrow to move to the Sonde position along the polar axis
<p>Configuration</p>	<p>The intuitive setup menu enables the user to configure the following:</p> <ul style="list-style-type: none"> - Set up frequency selection to toggle by "f" pushbutton - Setup location mode selection to toggle by "m" pushbutton - Setup screen views selection to toggle by long press "m" pushbutton - Units of measure (feet/meters) - Sound (Pitch) – normal or modulated - Language - Continuous depth option - Loudspeaker level - Backlight - Bluetooth pairing, if installed - Auto shut down – configurable to power down at five minutes, ten minutes, or never
<p>Data Logging</p>	<ul style="list-style-type: none"> - 50 million records of internal storage - Data can also be transferred for storage via cellular connectivity into the cloud using the Vivax-Metrotech application, VM MAP <p>All parameters stored at each location, including depth, current, date, time, mode, gain setting, frequency, locate uncertainty, longitude, latitude, and height above sea level</p>
<p>Data Transfer</p>	<ul style="list-style-type: none"> - Via the Vivax-Metrotech "MyLocator3" software application free of charge from www.vivax-metrotech.com. Data can be saved in csv, klm, shp, txt, xls and xlsx formats. The transfer is via a USB cable connection from the locator to the host computer. <p>Or</p> <ul style="list-style-type: none"> - Cellular transfer to the VMMap Cloud (Vivax-Metrotech Cloud) via the VMMap mobile app
<p>Operating Frequencies</p>	<ul style="list-style-type: none"> - Sonde – 512Hz, 640Hz, 8.19kHz, 9.82kHz, 32.8kHz, and 83.1kHz - Pushrod and Line trace: USA = 83.1kHz EU, UK, AU = 32.8kHz or 83.1kHz - Power 50Hz and 60Hz

	- Radio – 10.0kHz - 22.7kHz bandwidth	
Operating Modes	<ul style="list-style-type: none"> - Peak - Omni Directional Peak 	
Gain Control	<ul style="list-style-type: none"> - Manual gain using "+" or "-" keys - One-touch of "+" or "-" keys rescales to 60% of the bar graph scale 	
Accuracy	Locate pinpointing accuracy:	<ul style="list-style-type: none"> - Over 9ft (3m) – 5% of the depth - Up to 9ft (3m) – 3% of the depth
	Depth measurement accuracy:	+/- 5% of the depth
	Depth range:	Dependent on the strength of the signal radiating to the locator
	* Performance rated using a single undistorted signal source	
Compatible Transmitters	<ul style="list-style-type: none"> - For pushrod trace and line locate: - VM-550FF 1-watt transmitter - Loc3 series 5 and 10-watt transmitters 	

D. Shipping and Packaging

Item	Parameter
Shipping Weight	10.5lbs (4.75kg)
Shipping Dimension	16.5in(L) x 11in(W) x 27.6in(H) (420mm x 280mm x 700mm)

E. Warranty

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

F. Software Updates

Item	Parameter
Software	The software can be upgraded using a PC with a USB port. Program updates & locator software updates are available via the free MyLocator3 app.

Disclaimer: Product and accessory specifications and availability information are subject to change without prior notice.