



VIVAX
METROTECH

vLoc3-Cam

Technical Specifications V1.7



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 : +1-408-734-1400

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 : +1-408-734-1400

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
D-96110 Schesslitz

Tel : +49 954 277 227 43

Website: www.vivax-metrotech.de

Email : SalesEU@vxmt.com

China

Vivax-Metrotech (Shanghai) Ltd.

3/F No.90, Lane 1122 Qinzhou Rd.(N),
Shanghai, China 200233

Tel : +86-21-5109-9980

Fax : +86-21-2281-9562

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 & pinpointing the position of sondes, push camera sondes, crawler camera sondes, pushrod, 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 | - Six x AA Alkaline batteries - Optional rechargeable custom Lithium-ion batteries with 100-240V AC mains charger. |
| Battery Life | - Alkaline – typically 12 hours intermittent use at 70°F (21°C) - Optional Lithium-ion – typically 27 hours intermittent use at 70°F (21°C) * With backlight activated, Battery life varies with temperature; Li-ion re-charging cycles are approximately 500 times the life cycle |
| Environmental | IP65 and NEMA 4 |
| External Connectors | - Mini USB socket for software updates - Accessory Socket – to charge the optional rechargeable batteries - Bluetooth Port – to install optional Bluetooth module |
| Temperature Range | - 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 | - 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 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 numeric scale - Sonde depth – push button or continuous (selection in menu) - Sonde frequency <p>Pushrod Locate screen (Classic display):</p> <ul style="list-style-type: none"> - Signal strength in moving bar graphs with 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> |
| Locate Perspectives | <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 |
| Configuration | <p>Intuitive setup menu enables the user to configure:</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 |
| Data Logging | <ul style="list-style-type: none"> - 50 million record 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> |
| Data Transfer | <ul style="list-style-type: none"> - Via the Vivax-Metrotech "MyLocator3" software application available 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 |
| Operating Frequencies | <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 <p style="text-align: center;">EU, UK, AU = 32.8kHz or 83.1kHz</p> |

| | | |
|--------------------------------|---|---|
| | <ul style="list-style-type: none"> - 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.