VIVAX METROTECH

indepth™ UTILITY SOLUTIONS

281-969-8530

vLoc3-Cam

Technical Specifications V1.7

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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: • 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 70ºF (21ºC) - Optional Lithium-ion – typically 27 hours intermittent use at 70ºF (21ºC) * 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: -4ºF to 122ºF (-20ºC to 50ºC) - Storage: -40ºF to 140ºF (-40ºC to 60ºC)
Compliance and Approvals	- Complies with European standard CE (Directive 99/5/EC) - Complies with FCC Rules Part 15 • CFR 47 part 2

	• 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	• CFR 47 Part 15
Manufacturing	Designed and manufactured per ISO 9001:2015	
What's In the Box	- vLoc3-Cam Receiver - Mini USB cable for firmware updates - Six x AA Alkaline batteries - Six x AA Alkaline battery holder - User manual	
Compatible Accessories	- 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	**Status Bar Information:** - 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) **Sonde Locate Screen:** - 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 **Pushrod Locate screen (Classic display):** - Signal strength in moving bar graphs with numeric scale

	- Gain level (in dB) - Active frequency - Depth and logging option (if Bluetooth is installed) **Information screen:** - Depth - GPS co-ordinates - Log number **Customer definable start-up screen**
Locate Perspectives	- **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	**Intuitive setup menu enables the user to configure:** - 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	- 50 million record internal storage - Data can also be transferred for storage, via cellular connectivity, into the cloud using the Vivax-Metrotech application, VMMAP All parameters stored at each location including depth, current, date, time, mode, gain setting, frequency, locate uncertainty, longitude, latitude, and height above sea-level
Data Transfer	- 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. **Or** - Cellular transfer to the VMMap Cloud (Vivax-Metrotech Cloud) via the VMMap mobile app
Operating Frequencies	- 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	- Peak - Omni Directional Peak	
Gain Control	- Manual gain using "+" or "-"keys - One-touch of "+" or "-" keys rescales to 60% of the bar graph scale	
Accuracy	Locate pinpointing accuracy:	- 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	- 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	- 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.

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