

vLoc3-5000 System

Technical Specifications V1.6







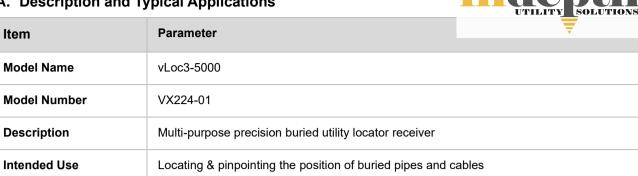


Item

vLoc3-5000 System Technical Specifications V1.6

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A. Description and Typical Applications



Collect data for analysis and mapping

B. Characteristics

Item	Parameter	
Construction	High impact thermoplastic (ABS) injection m	olded housing
Weight	4.6lbs (2.1kg)	
Dimensions	12.6in(L) x 4.9in(W) x 26.6in(H) (321mm x 1	24mm x 676mm)
Display Type	Transmissive 480 x 272 Pixel, 16-bit Color, I	High Visibility LCD, 4.3"/10cm
Receiver Antennas	 Two sets of Omnidirectional Antennas, each Two Compass Antennas Two Horizontal Antennas Two Vertical antennas 	comprising:
Batteries	Six x AA Alkaline batteriesRechargeable custom Lithium-ion batterie	es with 100-240V AC mains charger
Battery Life	 Alkaline – typically 12 hours intermittent u Lithium-ion – typically 27 hours intermittee * With backlight activated, battery life varies approximately 500 times the life cycle 	nt use at 70ºF (21ºC)
Environmental	IP65 and NEMA 4	
External Connectors	 Accessory Socket – to charge the internal batteries and attach accessories Mini USB socket for data transfer and software updates 	
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) EN 55011 	 ETSI EN 301 489-1 ETSI EN 301 489-3 Complies with FCC Rules Part 15







		UTILITY SOLUTIO
	• EN 61000-4-2: A1 & A2	• CFR 47 part 2
	• EN 61000-4-3	• CFR 47 Part 15
	• EN 61000-4-8: A1	
	• ETSI EN 300 330-2	
Manufacturing	Designed and manufactured per ISC	9001:2015
What's In the Box	- vLoc3-5000 Receiver	- Six x AA Alkaline battery holder
	- USB data transfer cable	- Six x AA Alkaline batteries
	- Custom lithium-ion battery pack	- User handbook
	- 100-240V AC mains charger	 Carry bag or hard case (decided at the time of ordering)
Compatible	- MLA (Marker Locator Attachment	to locate buried EMS Markers
Accessories	- A-frame fault locator	
	- Remote Antenna (Stethoscope)	
	- Vehicle Charging DC Lead	
	- TX-Link - Factory installed, for remote operation of the Loc3 series transmitter	
	- Range of Sondes (waterproof, se & ducts)	f-contained transmitters for use in nonmetallic pipes

C. Operational

Item	Parameter
Information Displayed	Information screen:
	- Real-time horizontal accuracy in 2DRMS
	- SiS Reset
	- GPS coordinates
	- Current on the line
	- Depth reading
	- Loging options
	Status Bar Information:
	 Antenna configuration: Peak, Peak with arrows, Broad Peak, Null, Delta Null, Omni Directional Peak, Omni Directional Broad
	- Line location - depth & current measurement
	- Battery condition
	- Speaker volume
	- Bluetooth and GNSS status (If installed)
	- Radio link to transmitter status (if installed)
	Locate screen (Classic display):







	- Signal strength - moving bar graph & numeric value
	 Bar graph color-coded indicating distortion level
	- Peak level indicator
	- Proportional left/right indication
	- Compass: full 360°-line direction indicator
	- Gain level (in dB)
	- Frequency selected
	 Product configuration menu & submenus, including GNSS status and data logging transfer status.
	- Customer definable start-up screen
	- Depth and current
	- Warnings (if activated)
	- Plug and play automatic recognition of accessories
	- Accessory specific custom screens
	Customer definable start-up screen
Locate Perspectives	- Classic Locate – moving bar graph with a value showing signal strength
	 Vector Locate Screen – fully automatic locate including offset, depth and locate uncertainty
	- Transverse Graph Screen - visual assessment of locate quality and distortion
	 Plan View Screen – fully automatic graphical representation of the cable position independent of cable direction, including depth/current and locate uncertainty.
	- Sonde Locate Screen – directing arrow to move to the Sonde position along the polar axis
Configuration	The Intuitive setup menu enables the user to configure:
	- Set up frequency selection to toggle by "f" pushbutton
	- Setup location mode selection to toggle by " <i>m</i> " 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 and current options
	- Loudspeaker level
	- Backlight
	- Bluetooth pairing if installed
	- Transmitter Radio Link if installed
	- Warnings (Excessive Tilt, Overhead Signal, Shallow Cable, Signal Overload)
	- Auto shut down – configurable to power down at five minutes, ten minutes, or never





Data logging	- 50 million record internal storage	e
	- Data can also be transferred for the Vivax-Metrotech application	storage, via cellular connectivity, into the cloud using , VMMAP
	-	cation including depth, current, date, time, mode, gain ainty, 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	 Configurable frequencies from 98Hz to 200kHz Power 50Hz and 60Hz 	
	Radio 10.0kHz - 22.7kHz bandwidth	
	- Signal Direction - enhanced pro	duct model giving the direction of outgoing current:
	• SD-USA: 256Hz/512Hz, SD-	-EUROPE: 320Hz/640Hz
	 Signal Select – a real-time mean inductive coupling to other utilitie 	surement of signal bleed-over caused by capacitive o es:
	SIS-491Hz, SIS-982Hz, SIS	-8440Hz, SIS-9.82kHz, SIS-35kHz
Operating Modes	 Peak, Peak with arrows, Broad Peak Null, Delta Null 	
	 Omni Directional Peak, Omni Di 	rectional Broad
Gain Control	Manual gain using "+" or "-" keys	
	One-touch of "+" or "-" keys rescales to 60% of the bar graph scale	
	In Vector Screen, "+" and "-" keys	act as zoom feature to keep target utility in view
	In the Transverse Graph screen, "+ screen	-" key saves the screen graph, "–" key clears the
Accuracy	Locate pinpointing accuracy:	- Over 9ft (3m) – +/- 5% of depth
		- Up to 9ft (3m) – +/- 3% of depth
	Depth measurement accuracy:	+/- 5% of depth
	Current measurement accuracy:	- +/- 5% of actual current – over 9ft (3m)
		- +/- 3% of actual current – up to 9ft (3m)
	Depth range:	Dependent on the strength of the signal radiating to the locator
* Performance rated using a single undistorted		undistorted signal source
Compatible Transmitters	Loc-10SiSTx, and Loc3-10SiSTx	



D. Communications

Item	Parameter
Bluetooth	 Internal Bluetooth for communicating with: External GPS or data logging devices Apple® devices Android[™] devices
GPS	 GPS, GLONASS, Galileo 2.5m accuracy Internal GNSS module
Transmitter Link	Optional Tx-Link (Remote transmitter control from the receiver)

E. Shipping and Packaging

Item	Parameter
vLoc3-5000 Receiver	Shipping Weight: 16lbs. (7.3kg).
in a SOFT KIT BAG.	Shipping Dimension: 30in(L) x 11in(W) x 14in(H) (762mm x 279mm x 356mm)
vLoc3-5000 Receiver	Shipping Weight: 20lbs. (9.1kg).
in a HARD CASE.	Shipping Dimension: 34in(L) x 15in(W) x 20in(H) (864mm x 381mm x 508mm)

F. Warranty

Item	Parameter
Warranty	Two yearsOptional extended warranty available

G. 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.



