



MAG X GEO



PRECISION GPS DATA LOGGING

- » RTK-Enabled GPS with 1–3 cm Accuracy
- » GPS Tracking including Elevation
- » Automatically Record Rod-by-Rod Metrics



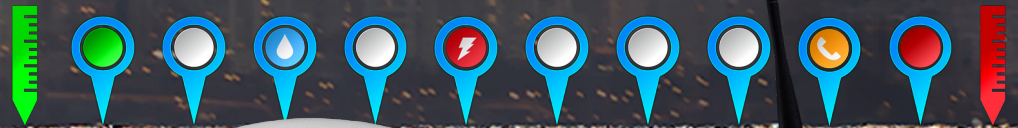
ON-THE-FLY FUNCTIONALITY

- » Views: Overhead Aerial, Side Profile Chart, Rod Table
- » Tools: Bore-To Steering, GPS Dropline, Pitch Guide
- » Logging: Rod Pitch, Roll, Temp, Depth, and GPS Data



REPORTING REDEFINED

- » Add Utility Crossings with Type, GPS, and Depth
- » Generate, Share, and Sync Reports from Receiver
- » Real-time Project Monitoring



MAG X GEO SPECIFICATIONS

Receiver

System	Mag X GEO
Screen	7-inch Color Touch Screen Android Operating System
System Frequency	16 Frequencies, .325kHz - 41kHz
GPS	Integrated GPS + RTK
Data Logging	Built-in Data Logging
Compatible Transmitters	Echo Series X-Mini / 50XF / 75XF / 70 / 90 / 110 Armor Series VTX50 / VTX75 / VTX85 / VTX120
Temperature Range	-4 °F to 140 °F (-20 °C to 60 °C)
Radio Frequency	915 MHz (US) / 869MHz (EU) / 867 MHz (IN)
Communication	4-Channel RF: up to 3,000 ft. /900m Range Dual Telemetry: Unlimited Range over Network
Power	Rechargeable Lithium battery 12.5V
Accuracy	±5%
Battery Life	Up to 15 hours
Dimensions	29" x 9" x 14" (73.5cm x 23cm x 35.5cm)
Weight	10.5 lbs. (4.8 kg)
Waterproof	IP65

Display

Screen	7-inch Color Touch Screen Android Operating System
GPS	External GPS Antenna Connection
Data Logging	Built-in
Temperature Range	-4 °F to 140 °F (-20 °C to 60 °C)
Radio Frequency	915 MHz (US) / 869MHz (EU) / 867 MHz (IN)
Communication	4-Channel RF: up to 3,000 ft. /900m Range Dual Telemetry: Unlimited Range over Network
Power	Rechargeable Lithium battery 12.5V
Battery Life	Up to 50 hours
Dimensions	7.5" x 5.1" x 7.5" (19 cm x 13 cm x 19 cm)
Weight	3.3 lbs. (1.5 kg)
Waterproof	IP65



Underground Magnetics

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Transmitters

ARMOR VTX50



Frequency	16 Frequencies, .325kHz - 41kHz
Battery Type	21700 x 1 Rechargeable Lithium Battery 261020 x 1 Lithium Battery (Primary)
Battery Life	21700 (4.2v): 100 hours - Low Power Mode 30 hours - Medium Power Mode 9 hours - High Power Mode 261020 (3.7v): 300 hours - Low Power Mode 80 hours - Medium Power Mode 25 hours - High Power Mode
Depth & Data Range	82 feet. (25m) - Low Power Mode 115 feet (35m) - Medium Power Mode 164 feet (50m) - High Power Mode
Dimensions	15" long x 1.25" diameter

ARMOR VTX75



Frequency	16 Frequencies, .325kHz - 41kHz
Battery Type	21700 x 1 Rechargeable Lithium Battery 261020 x 1 Lithium Battery (Primary)
Battery Life	21700 (4.2v): 100 hours - Low Power Mode 18 hours - Medium Power Mode 7 hours - High Power Mode 261020 (3.7v): 300 hours - Low Power Mode 50 hours - Medium Power Mode 20 hours - High Power Mode
Depth & Data Range	115 feet. (35m) - Low Power Mode 180 feet (55m) - Medium Power Mode 246 feet (75m) - High Power Mode
Dimensions	19" long x 1.25" diameter

ARMOR VTX85



Frequency	16 Frequencies, .325kHz - 41kHz
Battery Type	18650 x 3 Rechargeable Lithium Battery
Battery Life	18650 x 3: 100 hours - Low Power Mode 30 hours - Medium Power Mode 9 hours - High Power Mode
Depth & Data Range	164 feet. (50m) - Low Power Mode 230 feet (70m) - Medium Power Mode 279 feet (85m) - High Power Mode
Dimensions	15.9" long x 1.42" diameter

ARMOR VTX120



Frequency	16 Frequencies, .325kHz - 41kHz
Battery Type	21700 B2 x 3 Rechargeable Lithium Battery
Battery Life	21700 B2 x 3: 250 hours - Low Power Mode 100 hours - Medium Power Mode 23 hours - High Power Mode
Depth & Data Range	262 feet. (80m) - Low Power Mode 328 feet (100m) - Medium Power Mode 394 feet (120m) - High Power Mode
Dimensions	24.64" long x 1.65" diameter

Housing Suitability Check

For ARMOR VTX50 / VTX75 / VTX85 / VTX120

V. ANT (Antenna Voltage)	P. ANT (Transmitter Antenna Voltage)		
Normal Range	95% - 105%	Low Power Mode	120mW - 150mW
		Normal Power Mode	300mW - 500mW
		High Power Mode	1200mW - 2000mW

Note: Place the transmitter inside the housing for Suitability Check