



Single
Point Locating
Bore Logger
Depth Forecast
Multi Frequency
Cable Transmitter
110 m Depth Range
Housing Suitability Check
On Screen Predicted Depth
Special Series Tx without Temp Dot
Downhole Power Backup up to 120 Hrs
Downhole Switch over Frequency & Power



Underground Magnetics Pvt. Ltd
501 & 506, 5th Floor, The Pinnacle Business Tower,
Shooting Range Road, Suraj Kund, Faridabad-121 009, Haryana, India

Tel : +91 129 487 1020
E-mail : india@undergroundmagnetics.com
www.undergroundmagnetics.co.in

Grab
the
Power



Drilling Management

Real Time Bore Logger



- Connect easily to Mag Locator through any Android Device via Bluetooth
- View bore data and charts while drilling
- Collect GPS data to be displayed on Google Maps
- View bore data in real time from any remote location*
- Generate and share a PDF report from Android Device anywhere
- Precise Mapping of Downhole bore with UM GPS



UM GPS



for details login to ummaps.com

* Need to have data services on cell phone.

System Specifications

Receiver		
System	Mag 8	Mag 6
System Frequency	10 Frequencies, 4 kHz ~ 31 kHz	10 Frequencies, 4 kHz ~ 31 kHz
Compatible Transmitter	Echo ST / Echo X Mini / Echo 50 / Echo 60 / Echo 70 / Echo 90 / Echo 110	Echo ST / Echo X Mini / Echo 50 / Echo 60 / Echo 70
Temperature Range	-20°Celsius to 60°Celsius	-20°Celsius to 60°Celsius
Radio Frequency	867 MHz	867 MHz
Telemetry	4 Radio Channels with Range up to 1800 m*	4 Radio Channels with Range up to 1800 m*
Power	Rechargeable Lithium Battery 12.5v	Rechargeable Lithium Battery 12.5v
Battery Life	Up to 50 hours	Up to 50 hours
Dimensions	68.5cm x 13cm x 30cm	68.5cm x 13cm x 30cm
Weight	3 kg	3 kg
Water Proof	IP65	IP65

* Recommend Yagi Antenna for Extended Telemetry Range

Transmitter Specifications

Transmitter	Echo ST	Echo X Mini	Echo 50
Frequency	30kHz	Dual Frequencies 19/30kHz	10 Frequencies 4kHz ~ 31kHz
Battery Type	16340 x 1 Rechargeable Lithium Battery	18650 x 1 Rechargeable Lithium Battery	18650 x 1 Rechargeable Lithium Battery
Battery Life	16340 (3.7v): 10 hrs	18650 (3.7v): 18 hrs	18650 (3.7v): 20 hrs - Normal Mode 5 hrs - High Power Mode 261020 (3.7v): 60 hrs - Normal Mode 15 hrs - High Power Mode
Depth Range	25 m (82 Ft)	25 m (82 Ft)	40 m (131 Ft) - Normal Mode 50 m (164 Ft) - High Power Mode
Temperature	<88° Celsius	<121° Celsius	<121° Celsius
Roll	24 Clock Position	24 Clock Position	24 Clock Position
Pitch	0.1% Resolution	0.1% Resolution	0.1% Resolution
V.BAT	3.6v ~ 4.2v	2.8v ~ 4.2v	2.8v ~ 4.2v
Dimensions	2 cm x 16 cm / 0.79 in x 6.3 in	2.5 cm x 20 cm / 0.98 in x 7.87 in	3.2 cm x 38 cm / 1.25 in x 15 in
Water Proof	IP67	IP67	IP67

Mag Display

Telemetry	4 Radio Channels with Range up to 1800 m*
Power	Rechargeable Lithium Battery 12.5v
Temperature Range	-20° Celsius to 60° Celsius
Dimensions	19cm x 13cm x 19cm
Battery Life	Up to 50 hours
Radio Frequency	867 MHz
Weight	1.5 kg
Water Proof	IP65

Housing Suitability Check

for Echo 70 / Echo 90 / Echo 110

V. BAT	Transmitter battery voltage
V. ANT	Transmitter Antenna voltage Normal Range 95% - 105%
P. ANT	Normal Mode 500 mW - 800 mW High Power Mode 2000 mW - 3000 mW

Note : Place the Transmitter inside the Housing for Suitability Check

Stronger against interference

High performance DSP

High Precision, strong against interference, Faraday shield, 3D Antenna
Antenna Signal Conditioning Module

Dual Antenna System

Antenna Signal Conditioning module

High Precision, strong against interference, Faraday shield, 3d Antenna



Echo 60	Echo 70	Echo 90	Echo 110
10 Frequencies 4kHz ~ 31kHz 18650 x 2 Rechargeable Lithium Battery 261020 x 2 Lithium Battery (Super Cell)	10 Frequencies 4kHz ~ 31kHz 18650 x 3 Rechargeable Lithium Battery	10 Frequencies 4kHz ~ 31kHz 18650 B2 x 2 Rechargeable Lithium Battery	10 Frequencies 4kHz ~ 31kHz 18650 B2 x 3 Rechargeable Lithium Battery
18650 (3.7v): 50 hrs - Normal Mode 12 hrs - High Power Mode 261020 (3.7v): 160 hrs - Normal Mode 40 hrs - High Power Mode	18650 (3.7v): 60 hrs - Normal Mode 15 hrs - High Power Mode	18650 (3.7v): 80 hrs - Normal Mode 20 hrs - High Power Mode	18650 (3.7v): 120 hrs - Normal Mode 30 hrs - High Power Mode
40 m (131 Ft) - Normal Mode 60 m (196 Ft) - High Power Mode <121° Celsius 24 Clock Position 0.1% Resolution 5.6v ~ 8.4v 3.2 cm x 48 cm / 1.25 in x 19 in IP67	50 m (164 Ft) - Normal Mode 70 m (230 Ft) - High Power Mode <121° Celsius 24 Clock Position 0.1% Resolution 8.4v ~ 12.6v 3.6 cm x 39.3 cm / 1.42 in x 15.48 in IP67	70 m (230 Ft) - Normal Mode 90 m (295 Ft) - High Power Mode <121° Celsius 24 Clock Position 0.1% Resolution 5.6v ~ 8.4v 3.6 cm x 45.5 cm / 1.42 in x 17.92 in IP67	90 m (295 Ft) - Normal Mode 110 m (361 Ft) - High Power Mode <121° Celsius 24 Clock Position 0.1% Resolution 8.4v ~ 12.6v 3.6 cm x 60.5 cm / 1.42 in x 23.82 in IP67