

# Grab the Power!

the new  
**MAG 9**



**Underground MagNetics**

*simple. powerful. affordable.*

# Mag 9 | specifications

System	Mag 9
System Frequency	16 Frequencies, .325kHz - 41kHz
Compatible Transmitter	Echo X-Mini / Echo 50 / Echo 50x Echo 60 / Echo 70 / Echo 90 / Echo 110
Temperature Range	-20°Celsius to 60°Celsius
Radio Frequency	433 MHz
Telemetry	4 Radio Channels with range up to 1800 m.
Power	Rechargeable Lithium battery 12.5V
Battery Life	Up to 50 hours
Dimensions	68.5 cm x 13 cm x 30 cm
Weight	3.85 kg
Waterproof	IP65



## mag display specifications

Display	7-inch Color Touch Screen Android Operating System
Data-log	Built-in
Temperature Range	-20°Celsius to 60°Celsius
Radio Frequency	433 MHz
Telemetry	4 Radio Channels with range up to 1800 m.
Power	Rechargeable Lithium battery
Battery Life	12.5V Up to 50 hours
Dimensions	19 cm x 13 cm x 19 cm

Weight	1.5 kg
Waterproof	IP65

## transmitter specifications

Transmitter	Echo X-Mini	Echo 50	Echo 50x
<b>Frequency</b>	2 Frequencies, 19kHz, 30kHz	12 Frequencies, 4kHz - 41kHz	16 Frequencies, .325kHz-41kHz
<b>Battery Type</b>	Standard Rechargeable Lithium Battery (3.6v)	High Power Rechargeable Lithium Battery (4.2v) Lithium Battery (3.7v)	High Power Rechargeable Lithium Battery (4.2v) Lithium Battery (3.7v)
<b>Battery Life</b>	18 Hours	(4.2v): 50 Hours Normal Mode 12 Hours - High Power Mode (3.7v): 60 Hours Normal Mode 15 Hours - High Power Mode	(4.2v): 50 Hours - Normal Mode 12 Hours - High Power Mode (3.7v): 60 Hours - Normal Mode 15 Hours - High Power Mode
<b>Depth &amp; Data Range</b>	18m	40m - Normal Mode 50m - High Power Mode	40m - Normal Mode 50m - High Power Mode
<b>Temperature</b>	<121° Celsius	<121° Celsius)	<121° Celsius)
<b>Roll</b>	24 Clock Position	24 Clock Position	24 Clock Position
<b>Pitch</b>	0.1% Resolution	0.1% Resolution	0.1% Resolution
<b>V.BAT</b>	2.7v - 4.2v	2.8v - 4.2v	2.8v - 4.2v
<b>Dimensions</b>	2.5cm x 20cm	3.2cm x 38cm	3.2cm x 38cm
<b>Water Proof</b>	IP67	IP67	IP67

Echo 60	Echo 70	Echo 90	Echo 110
12 Frequencies, 4kHz-41kHz	12 Frequencies, 4kHz-41kHz	12 Frequencies, 4kHz-41kHz	12 Frequencies, 4kHz-41kHz
High Power Rechargeable Lithium Battery (4.2v) x 2 Lithium Battery (3.7v) x 2	Standard Rechargeable Lithium Battery (3.6v) x 3	Rechargeable Lithium Battery (3.6v) x 2	Rechargeable Lithium Battery (3.6v) x 3
(8.4v): 100 Hours-Normal Mode 25 Hours-High Power Mode (7.4v): 120 Hours - Normal Mode 30 Hours - High Power Mode	(10.8v): 60 Hours - Normal Mode 15 Hours - High Power Mode	(7.2v): 80 Hours Normal Mode 20 Hours - High Power Mode	(10.8v): 120 Hours Normal Mode 30 Hours - High Power Mode
50m - Normal Mode 60m - High Power Mode <121° Celsius)	50m - Normal Mode 70m - High Power Mode <121° Celsius)	70m - Normal Mode 90m - High Power Mode <121° Celsius)	90m - Normal Mode 110m - High Power Mode <121° Celsius)
24 Clock Position 0.1% Resolution	24 Clock Position 0.1% Resolution	24 Clock Position 0.1% Resolution	24 Clock Position 0.1% Resolution
5.6v - 8.4v 3.2cm x 48cm	8.4v - 12.6v 3.6cm x 40.5cm	5.6v - 8.4v 3.6cm x 45.7cm	8.4v - 12.6v 3.6cm x 60.8cm
IP67	IP67	IP67	IP67

