



Underground Magnetics

Dual antenna system  
Stronger against interference



High performance DSP

Locator 1: High precision, strong  
against interference, Faraday  
shield, 3D antenna

Locator 1: Antenna signal  
conditioning module

Locator 2: Antenna signal  
conditioning module

Locator 2: High precision, strong  
against interference, Faraday  
shield, 3D antenna

[www.undergroundmagnetics.com](http://www.undergroundmagnetics.com)



#### Receiver Specification

System mode: Mag 5  
System frequency: 4kHz, 19kHz, 30kHz  
Depth range: up to 60m  
Telemetry: 4 radio channels with range up to 1.2km  
Power: Rechargeable lithium battery  
Rechargeable lithium battery: 12.5V  
Battery life: Up to 50 hours  
Size: 68.5cm\*13cm\*30cm  
Weight: 3kg  
Water proof: IP65

#### Receiver Specification

System mode: Mag 7  
System frequency: 4kHz, 19kHz, 30kHz  
Depth range: up to 80m  
Telemetry: 4 radio channels with range up to 1.2km  
Power: Rechargeable lithium battery  
Rechargeable lithium battery: 12.5V  
Battery life: Up to 50 hours  
Size: 68.5cm\*13cm\*30cm  
Weight: 3kg  
Water proof: IP65

#### Display Specification

Radio frequency: 433MHz  
Power: Rechargeable lithium battery  
Battery life: Up to 50 hours  
Display: Industrial rated LCD graphic display  
Telemetry: 4 radio channels with range up to 1.2km  
Temperature: Under 85°C  
Size: 19cm\*13cm\*19cm  
Weight: 1.5kg  
Water proof: IP65

#### Transmitter: Echo 2S

Frequency: 4kHz, 19kHz, 30kHz  
Depth range: 40m, 50m  
Power: 261020 battery or rechargeable lithium battery  
•261020 battery  
oVoltage: 3V  
Normal power mode: 40m\*60 hours  
High power mode: 50m\*15 hours  
•Rechargeable lithium battery  
oVoltage: 3V  
Normal power mode: 40m\*20 hours  
High power mode: 50m\*5 hours  
Roll: 1-12 clock position with half hour resolution  
Pitch: 0.1% resolution  
Dimensions: 3.2cm in diameter  
\*38cm in length

#### Transmitter: Echo 3

Frequency: 4kHz, 19kHz, 30kHz  
Depth range: 40m, 60m  
Power: 261020 batteries or rechargeable lithium batteries  
•261020 batteries  
oVoltage: 6V  
Normal power mode: 40m\*160 hours  
High power+ mode: 60m\*40 hours  
•Rechargeable lithium batteries  
oVoltage: 6V  
Normal power mode: 40m\*50 hours  
High power+ mode: 60m\*12 hours  
Roll: 1-12 clock position with half hour resolution  
Pitch: 0.1% resolution  
Dimensions: 3.2cm in diameter  
\*48cm in length

#### Transmitter: Echo 5

Frequency: 4kHz, 19kHz, 30kHz  
Depth range: 40m, 55m, 70m, 80m  
Power: DD batteries or rechargeable lithium batteries  
• DD batteries  
oVoltage: 6V  
Normal power mode: 55m\*320 hours  
High power mode: 70m\*80 hours  
High power+ mode: 80m\*80 hours  
• Rechargeable lithium batteries  
oVoltage: 6V  
Normal power mode: 55m\*62 hours  
High power mode: 70m\*19 hours  
High power+ mode: 80m\*19 hours  
Roll: 1-12 clock position with half hour resolution  
Pitch: 0.1% resolution  
Dimensions: 4.2cm in diameter  
\*69.5cm in length



# Simple Powerful Affordable

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