

Underground Magnetics

simplicity meets versatility

There's a new player in the Utility Locating game. Underground Magnetics is happy to announce the production of a revolutionary Utility Locating System.

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UTILITY LOCATING SYSTEM SPECIFICATIONS

RECEIVER

Model	UM Dual
Dimensions	26.7in x 5.8in x 12.7in (679mm x 148mm x 324mm)
Weight	4.8lbs (2.2kg)
Operating Temperature	-4°F to 122°F (-20° to 50°C)
Storage Temperature	-40°F to 160°F (-40° to 70°C)
Environmental	IP65[1]
Batteries	Lithium ion battery pack, 35.5Wh 6x AA (LR6) with Alkaline battery pack Automatic battery type detection
Battery Life	**Lithium:** 15 hours continuous (30 intermittent) **Alkaline:** 5 hours continuous (10 intermittent)
Display	High-Visibility Color Transflective Display, 4.3"

PERFORMANCE

Frequency Range	50Hz - 200kHz
Max Automatic Depth[3]	19.7 ft (6m)
Max Pushbutton Depth[3]	36 ft (11m)
Accuracy (Locate)	+/- 5% of depth
Accuracy (Depth)[3] - Line - Sonde - Passive	 +/- 5% to 9.8ft (3m) +/- 5% to 9.8ft (3m) +/- 10% to 9.8ft (3m)
Sensitivity:	1x10 -15 Tesla (1uA @ 1m, 32.8kHz)
Automatic overload protection	Up to 60dB

FEATURES

Locate Modes	Single Twin Null Sweep (Single Omni Directional) Twin Sweep (Twin Omni Directional)
Gain Control	Manual with One Touch
Active Locate Frequencies	**Standard Frequencies:** 256Hz, 263Hz, 440Hz, 512Hz, 560Hz, 577Hz, 640Hz, 815Hz, 870Hz, 940Hz, 1.02kHz, 1.17kHz, 3.14kHz, 4.1kHz, 8.01kHz, 8.19kHz, 9.82kHz, 12.1kHz, 16.3kHz, 22.5kHz, 29.4kHz, 32.8kHz, 44.5kHz, 66.1kHz, 88.8kHz, 99kHz, 132kHz, 200kHz
Custom Frequencies	Available by request
Sonde Frequencies	**4 Frequencies:** 512Hz, 640Hz, 8.19kHz, 32.8kHz
Passive Frequencies	**Power** - 50Hz, 180Hz, 540Hz for 50Hz grid - 60Hz, 150Hz, 450Hz for 60Hz grid **Grouped Power** **Cathodic Protection (CP)** - CP120 for 60Hz grid - CP100 for 50Hz grid **Radio:** 13kHz to 28kHz
Locate Direction	Automatically detected, Any frequency under 10kHz
Frequency Analyzer	Scans the area for noise in all directions Recommends the best frequencies
Data Logging	4Gb internal storage, over 16 million records
Wireless Connections	BLE 5.1
Accessories	Ring Clamp

TRANSMITTER

Model	UM 10w
Dimensions	8.3in x 7.6in x 15in (210mm x 193mm x 381mm)
Weight	7.9lbs (3.6kg)
Operating Temperature	-4°F to 122°F (-20° to 50°C)
Storage Temperature	-40°F to 160°F (-40° to 70°C)
Environmental	IP65[1]
Batteries	Lithium ion battery pack, 94.7Wh 8x D-Cell (LR20) with Alkaline Pack Automatic battery type detection
Battery Life	**Lithium:** 20 hours continuous (40 intermittent) **Alkaline:** TBD hours continuous (TBD intermittent)
Display	High Contrast Graphical LCD

PERFORMANCE

Frequency Range	256Hz - 200kHz
Max Power Output	10w (1w above 45kHz)
Max Current Output	1000mA (500mA above 45kHz)
Max Voltage Output	90Vrms
Output Power Levels	4 levels + Standby[2]

FEATURES

Active Locate Frequencies	**Standard Frequencies:** 256Hz, 263Hz, 440Hz, 512Hz, 560Hz, 577Hz, 640Hz, 815Hz, 870Hz, 940Hz, 1.02kHz, 1.17kHz, 3.14kHz, 4.1kHz, 8.01kHz, 8.19kHz, 9.82kHz, 12.1kHz, 16.3kHz, 22.5kHz, 29.4kHz, 32.8kHz, 44.5kHz, 66.1kHz, 88.8kHz, 99kHz, 132kHz, 200kHz
Custom Frequencies	Available by request
Induction Frequencies	3.14kHz and above
Dual Output Ports	Connect 2 accessories, switch modes with Mode key
Locate Direction	User enabled, Any frequency under 10kHz
Accessories	Direct Connect Leads Ring Clamp

SYSTEM

Regulatory Compliance	FCC,CE.
Data Transfer	USB-C 2.0
PC based Setup	User-configurable with UM Setup software
Language Support	22 user-selectable languages:

English	Polish	Danish	Czech	Chinese
Spanish	Dutch	Estonian	Finnish	Korean
French	Portuguese	Norwegian	Greek	
German	Russian	Latvian	Hungarian	
Italian	Swedish	Lithuanian	Romanian	

General Warranty: 2-year warranty against manufacturer defects. Defects as defined in the user manual.

Parts and Accessories: 2-year warranty against manufacturer defects

[1] IP65 Rating: The IP65 rating indicates a product is "dust tight" and protected against water jets from any direction. Whether used in harsh weather conditions or dusty settings, an IP65-rated device offers reliable protection, ensuring long-lasting performance and durability.

[2] In standby, a small amount of voltage and current are used to measure the impedance of the utility

[3] Depth accuracy based in a single undistorted signal source

Product specifications are subject to change based on various conditions and the specific equipment used. Environmental conditions, operational settings, and compatibility with other devices can influence performance, durability, and functionality. Manufacturer may adjust specifications to optimize the product for different applications or to meet evolving industry standards. Refer to the latest product documentation or consult with a representative to ensure you have the most up-to-date information.