COMMON SENSE SOLUTIONS

- TWO QUICK-SWAPPABLE BATTERIES » Charge your spare battery while you locate
- ERGONOMIC 3D SOFT TOUCH KEYPAD » Provide intuitive feedback with each button press
- COMFORTABLE BALANCED RECEIVER » Reduce fatigue with balanced ergonomic design
- BREAK-AWAY LEADS » Reduce accidental damage to transmitter leads
- DUAL OUTPUT PORTS » Connect any two accessories » Select the active accessory with a single button



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

simplicity meets versatility

UMAGUL.COM | 515.505.0960

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	IP651					
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"					

50Hz - 200kHz

+/- 5% of depth

+/- 5% to 9.8ft (3m)

+/- 5% to 9.8ft (3m)

+/- 10% to 9.8ft (3m)

1x10⁻¹⁵ Tesla (1uA @ 1m, 32.8kHz)

19.7 ft (6m)

36 ft (11m)

Up to 60dB

PERFORMANCE

Frequency Range Max Automatic Depth³ Max Pushbutton Depth³ Accuracy (Locate) Accuracy (Depth)³ Line Sonde - Passive Sensitivity:

Automatic overload

FEATURES

protection

Locate Modes	Single Twin Null Sweep (Omnidirectional) Twin Sweep (Omnidirectional)				
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, 150Hz, 450Hz for 50Hz grid - 60Hz, 180Hz, 540Hz for 60Hz grid Grouped Power: Detects power frequencies and harmonics simultaneously Cathodic Protection (CP) - CP120 for 60Hz grid - CP100 for 50Hz grid Radio: 13kHz to 28kHz				
Locate Direction	Automatically detected, Any frequency up to 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: 17 hours continuous (34 intermittent) Alkaline: 10 hours continuous (20 intermittent)				
Display	High Contrast Graphical LCD				
DEDEODMANOE					
PERFORMANCE					
Frequency Range	256Hz - 200kHz				
Max Power Output	10w (1w above 45kHz)				
Max Current Output	1000mA (500mA above 45kHz)				

Max Voltage Output 90Vrms 4 levels + Standby² **Output Power Levels**

FEATURES

Active Locate Frequencies

	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 any two accessories Select the active accessory with Mode key			
Locate Direction	User enabled, Any frequency under 10kHz			
Accessories	Direct Connect Leads Ring Clamp			

Standard Frequencies: 256Hz, 263Hz, 440Hz, 512Hz, 560Hz, 577Hz, 640Hz, 815Hz, 870Hz,

940Hz, 1.02kHz, 1.17kHz, 3.14kHz, 4.1kHz,

SYSTEM

Regulatory Co	mpliance	FCC, CE.				
Data Transfer		USB-C 2.0				
PC based Setup		User-configurable with UM Setup software				
Language Support		22 user-selectable languages:				
English Spanish French German Italian	Polish Dutch Portuguese Russian Swedish	Э	Danish Estonian Norwegian Latvian Lithuanian	Czech Finnish Greek Hungarian Romanian	Chinese Korean	

General Warranty: Standard 2-year warranty against manufacturer defects.

Optional 1-Year warranty extension available

Parts and Accessories: Standard 2-year warranty against manufacturer defect, no option for third year extension.

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.