



# UTILIGUARD

## UTILITY LOCATING SYSTEM

The Subsite® UtiliGuard® Utility Locating System has accuracy-enhancing features you can't get on other locators. Ambient Interference Measurement (AIM®) technology automatically recommends the best frequency. An available 12-watt transmitter drives signals farther down large, direct-buried utilities. And only the UtiliGuard locating system can provide the depth and horizontal distance to the utility. Don't take a risk on anything else. Get the UtiliGuard locating system.

### KEY FEATURES

- ⌘ High-contrast LCD display is visible in all conditions, including direct sunlight. (+, S, B)
- ⌘ Remotely control the transmitter with the receiver. (+)
- ⌘ Provides horizontal and vertical distance (depth) to the utility to enable users to make accurate locates of obstructed utilities. (+)
- ⌘ Bluetooth® technology simplifies communication and data transfer to GPS devices. (+, S)
- ⌘ UtiliGuard is direction enabled, i.e., provides the direction of the current to help you identify the target line. (+, S)
- ⌘ AIM® scans the surrounding area for noise and recommends the best frequencies for the fastest, most accurate locates. (+)
- ⌘ Dual-output transmitter connects to two utilities at once, reducing the time required to locate multiple services. (+)
- ⌘ Ability to change the frequency and power level from the receiver and switch leads between utilities when using dual output. (+)
- ⌘ 12-watt transmitter drives signals farther down large, direct-buried utilities. (+, S)
- ⌘ Four-button, intuitive operator interface is easy to learn and use, and includes multiple languages. (+, S, B)
- ⌘ Superior battery life: transmitter 100+ hours (max), receiver 30 hours (max); more than twice as long as the competition's. (+, S, B)
- ⌘ Ruggedly built UtiliGuard has an industry-best IP65 rating to ensure excellent performance in dusty, dirty or wet jobsite conditions. (+, S, B)
- ⌘ Choose from 70 standard frequencies via user-configurable software. (+, S)

KEY:	UtiliGuard ADV/+ (+)
	UtiliGuard Standard (S)
	UtiliGuard Basic (B)



# UTILIGUARD® UTILITY LOCATING SYSTEM SPECIFICATIONS

## RECEIVER

U.S. METRIC

### DIMENSIONS

Height, max	27.2 in	705 mm
Length, max	12.8 in	325 mm
Width, max	4.75 in	150 mm
Operating weight, max	4.8 lb	2.2 kg

### PERFORMANCE

Frequency range	50 Hz-200 kHz	
Sensitivity	1µA at 1 m	33 kHz
Dynamic range	145 dB rms/√Hz	
Selectivity	117 dB	
Depth, max	20 ft	6 m
Locate accuracy	±5% of depth	
Dynamic overload protection	30 dB (automatic)	
Depth accuracy <sup>1</sup>		
Line	±5% to 10 ft	±5% to 3 m
Sonde	±5% to 10 ft	±5% to 3 m
Passive	±5% to 10 ft	±5% to 3 m

### FEATURES

Custom frequencies (optional)	Up to 100 custom frequencies from 256 Hz-83 kHz	
High contrast graphical LCD		
DE direction enabled (optional)	Any frequency from 256 Hz-10 kHz	
Offset depth (optional)	Measures horizontal and vertical distance to the line	
AIM® (optional)	Measures interference and recommends best frequency	
Fault-finding, DE based (optional)	256 Hz and 526 Hz	
Cathodic protection frequencies (optional)	50 Hz, 60 Hz, 100 Hz, 120 Hz, 150 Hz, 180 Hz	
Power frequencies (optional)	50 Hz, 60 Hz, 100 Hz, 120 Hz, 150 Hz, 180 Hz	
Language support	17 <sup>2</sup> user selectable languages	
Receiver/transmitter communications (optional)	Remotely control transmitter frequency, power level and more	
Bluetooth® GPS connectivity (optional)	Capture mapping information	
Line direction compass with proportional L/R arrow guidance		
PC based configuration	Software updates and configuration can be done by user	

### ENVIRONMENTAL

Operating temperature	-4-122°F	-20-50°C
Storage temperature	-25-158°F	-32-70°C
Environmental	IP65 <sup>3</sup>	

### BATTERY

Batteries	2 D-Cell (LR20) or commercially available NiMH	
Battery life	30 hrs continuous, 70 hrs intermittent	

### WARRANTY

1 year standard, additional 1 year upon registration

### REGULATORY COMPLIANCE

FCC, RSS 310, CE, Bluetooth, C-Tick

### OPTIONAL PLUG AND PLAY ACCESSORIES

Fault probe, EML boot, receiver clamp, stethoscope

## TRANSMITTER

U.S. METRIC

### DIMENSIONS

Height, max	10 in	254 mm
Length, max	12 in	381 mm
Width, max	7.75 in	152 mm
Operating weight, max	7.7 lb	3.4 kg

### PERFORMANCE

Frequency range	256 Hz-200 kHz	
Power options	5 or 12 watt	
Current, max	500 mA	
Voltage, max	65V rms	

### FEATURES

Custom frequencies (optional)	Up to 100 custom frequencies from 256 Hz-83 kHz	
High contrast graphical LCD		
Language support	17 <sup>2</sup> user selectable languages	
External 12V power connection (optional)		
Fault-finding, DE based (optional)	256 Hz and 526 Hz	
Induction	16 induction frequencies <sup>4</sup>	
Multi-meter functions (optional)	Watts, currents, ohms, and volts	
Dual output (optional)	Remotely select active output (must have optional dual output leads)	
PC based configuration	Software updates and configuration can be done by user	
Receiver/transmitter communications (optional)	Transmitter remotely controlled by the receiver	

### ENVIRONMENTAL

Operating temperature	-4-122°F	-20-50°C
Storage temperature	-25-158°F	-32-70°C
Environmental	IP65 <sup>2</sup>	

### BATTERY

Batteries	10 D-Cell (LR20) or optional Li-ion battery pack	
Battery life	100 hrs with alkaline/80 hrs with Li-ion battery pack	

### WARRANTY

1 year standard, additional 1 year upon registration

### REGULATORY COMPLIANCE

FCC, RSS 310, CE, Bluetooth, C-Tick

### OPTIONAL PLUG AND PLAY ACCESSORIES

Dual output direct connect cables, live power adaptor, 5" clamps, 7" broadband clamps

<sup>1</sup> Locators are calibrated, at factory frequencies, to these tolerances under ideal test conditions. Actual operating conditions may have signal distortions or noise sources, which may result in depth estimate errors.

<sup>2</sup> Languages supported: English, Spanish, Dutch, Netherlands, French, Russian, Swedish, Italian, Danish, Polish, Estonian, Latvian, Lithuanian, Greek, Czech, Finnish, Chinese.

<sup>3</sup> Environmental rating IP65 definition: protected from total dust ingress. Protected from low pressure water jets from any direction.

<sup>4</sup> Induction frequencies: 8.01 kHz, 8.192 kHz, 8.44 kHz, 9.82 kHz, 29.4 kHz, 32.8 Hz, 38 kHz, 44.6 kHz, 65.5 kHz, 78.1 kHz, 80.4 kHz, 82.5 kHz, 83.1 kHz, 89 kHz, 131 kHz, 200 kHz

Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that shown.

