Leica ULTRAPrecision utility tracing



The Leica ULTRA provides our most advanced precision utility tracing system. Intelligent signal processing has been integrated with unique flexible operating modes, to help save you time and increased confidence in your results.

Selectable antenna and customised frequencies optimises your instrument for site specific applications, supported by our AIM system which monitors signal interference levels, recommending which mode to use for the best results.

- Configure for site specific applications
- Choose from 100 selectable frequencies
- Select antenna to best optimise for your job site
- Compass shows the user the direction of the trace utility
- Direction enabled Identifying your target utility amongst multiple parallel utilities
- Ambient Interference Measurement (AIM)
- Offset Measuring
- Connect to GIS & GNSS systems
- Remote controlled transmitter
- Choose between 5W and 12W transmitter power outputs for superior tracing performance





Leica ULTRA

Leica ULTRA Locators

Technical Data

Dimension	691 x 325 x 122 mm (27.2 x 12.8 x 4.75 in)
Weight (including batteries)	2.2 kg (4.8 lb)
PERFORMANCE	
Frequency range	50 Hz - 200 kHz
Sensitivity	33 kHz (1 μA at 1m)
Dynamic range	117 dB
Depth, max	6m (20 ft)
Locate accuracy	±5% depth
Dynamic overload protection	30 dB (automatic)
Depth accuracy	In line - ±5% to 3m (±5% to 10ft) Sonde - ±5% to 3m (±5% to 10ft) Passive - ±5% to 3m (±5% to 10ft)

Standard

Advanced

FEATURES

FEATURES		
Enabled frequencies		,192 Hz, 32,768 Hz, ,200,000 Hz
Custom frequencies	Up to 100 cust from 256 F	om frequencies Hz - 83 kHz
DE direction enabled	Any fre from 256 F	quency Hz - 10 kHz
Fault-finding DE based	263	Hz Hz
Cathodic protection frequencies	100 Hz,	120 Hz
Power frequencies		00 Hz, 120 Hz, 450 Hz, 540 Hz
Language support	17 user s	electable
Selectable auto shutdown	5, 10, 20 or	30 minutes
PC based configuration	Software u configuration ca	pdates and n be set by user
High contrast graphical LCD	✓	✓
Line direction compass with proportional L/R arrow guidance	✓	√
Offset depth		✓
AIM		✓
Receiver / transmitter communications		✓
Bluetooth connectivity		✓

ENVIRONMENTAL

Operating temperature	-20°C - 50°C (-4°F - 122°F)
Storage temperature	-32°C - 70°C (-25°F - 158°F)
Environmental protection	IP65

Battery

Batteries	2 D-cell (LR20)
Battery life (max)	30 hrs continuous 70 hrs intermittent

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Leica ULTRA Transmitter

Technical Data	5Watt	12Watt	Advanced
Dimension		4 x 305 x 91 n 0 x 12 x 7.75	
Weight (including batteries)		3.4 kg (7.7 lb))

PERFORMANCE

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Frequency range		56 Hz - 200 kl	
Output power	5Watt	12Watt	12Watt
Current, max		500 mA	
Voltage, max		65V rms	

FEATURES			
Enabled frequencies		0 Hz, 8,192 F 00 Hz, ,200,0	lz, 32,768 Hz, 00 Hz
Custom frequencies		00 custom fre n 256 Hz - 83	
Language support	17	7 user selecta	ble
Induction	16 in	duction frequ	encies
PC based configuration		tware updates ation can be s	
Fault-finding DE based		263 Hz	
Multi-meter functions	Watts, cı	urrents, ohms	and volts
High contrast graphical LCD	✓	✓	✓
External 12V power connection			✓
Dual output			✓
Receiver / transmitter communications			✓

ENVIRONMENTAL

Operating temperature	-20°C - 50°C (-4°F - 122°F)
Storage temperature	-32°C - 70°C (-25°F - 158°F)
Environmental protection	IP65

Battery

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

Offset depth Measures horizontal and vertical distance to the line

Ambient Interference Measurement (AIM)

Measures interference and recommends best frequency

Receiver / Transmitter communications

Remotely control transmitter frequency, power level and more

Bluetooth

Wireless connectivity to GIS field PC, GNSS receiver

Dual output Remotely select active output (must have optional dual output leads)

Induction frequencies

RIOLICION INEQUENCES 8.01 kHz, 8.192 kHz, 8.44 kHz, 9.82 kHz, 29.4 kHz, 32.8 kHz, 39 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

