

Leica ULTRA Precision 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



- when it has to be right

Leica ULTRA

Locators

Locators		
Technical Data	Standard	Advanced
Dimension	691 x 325 (27.2 x 12.	x 122 mm 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 1 m)
Dynamic range	117	7 dB
Depth, max	6 m (20 ft)
Locate accuracy	±5%	depth
Dynamic overload protection	30 dB (ai	utomatic)
Depth accuracy	In line - ±5% to 3 Sonde - ±5% to 3 Passive - ±5% to 3	m (±5% to 10 ft) m (±5% to 10 ft) 3 m (±5% to 10 ft)
FEATURES		
Enabled frequencies	512 Hz, 3.14 kHz, 8.192 kHz, 32.768 kHz, 83.1 kHz, 200 kHz	
Custom frequencies		om frequencies Hz - 83 kHz
DE direction enabled	Any fre from 256 F	equency Hz - 10 kHz
Fault-finding DE based	263	3 Hz
Cathodic protection frequencies	100 Hz,	120 Hz
Power frequencies	50 Hz, 60 HZ, 1 150 Hz, 180 Hz,	100 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		pdates and In be set by user
High contrast graphical LCD	\checkmark	\checkmark
Line direction compass with proportional L/R arrow guidance	\checkmark	\checkmark
Offset depth		\checkmark
AIM		\checkmark
Receiver / transmitter communications		\checkmark
Bluetooth [®] connectivity		\checkmark
ENVIRONMENTAL		
Operating temperature	-20 °C - 50 °C	(-4 °F - 122 °F)
Storage temperature	-32 °C - 70 °C (-25 °F - 158 °F)	
Environmental protection	IP	65
BATTERY		
Batteries	2 D-cel	l (LR20)

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30 hrs continuous 70 hrs intermittent

Leica Geosystems AG Heerbrugg, Switzerland

Battery life (max)

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Transmitters

Technical Data	5 Watt	12 Watt	Advanced
Dimension	254 x 305 x 91 mm (10 x 12 x 7.75 in)		
Weight (including batteries)	3.4 kg (7.7 lb)		
PERFORMANCE			
Frequency range	256 Hz - 200 kHz		
Output power	5 Watt	12 Watt	12 Watt
Current, max	500 mA		
Voltage, max	65V rms		
FEATURES			
Enabled frequencies	512 Hz, 3.14 kHz, 8.192 kHz, 32.768 kHz, 83.1 kHz, 200 kHz		
Custom frequencies	Up to 100 custom frequencies from 256 Hz - 83 kHz		
Language support	17 user selectable		
Induction	16 induction frequencies		
PC based configuration	Software updates and configuration can be set by user		
Fault-finding DE based	263 Hz		
Multimeter functions	Watts, currents, ohms and volts		
High contrast graphical LCD	\checkmark	\checkmark	\checkmark
External 12V power connection			\checkmark
Dual output			\checkmark
Receiver / transmitter communications			\checkmark

ENVIRONMENTAL

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

BATTERY

Batteries	10 D-Cell (LR20) or Li-Ion battery 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 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



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