Unlock the power

Configure the Leica ULTRA for site specific applications. Custom build your receiver and transmitter.

Choose from over 100 preselected frequencies, or customise your own frequency for highly specialised applications.

Automatically capture the instruments location data to ensure adherence to best practice. The data logging feature allows the user to record external GPS coordinates and download with the datafile as a KML or CSV format. Upload into GIS systems or Google Maps to confirm where, when and how the work was performed.

LARGE CLEAR DISPLAY
- Large backlit high visibility LCD screen
- Clear display provides clear, improved and confident location and utility tracing

CUSTOM FREQUENCIES
- Configure for site specific applications
- User configurable modes from 50 Hz to 200 kHz
- Choose from 100 pre-selected frequencies or customise your own frequencies

COMPASS
- Shows the user the direction of the utility they are locating / tracing

BLUETOOTH®
- Enable wireless communications with software running on a laptop, survey field PC or other GPS enabled device

INCREASED TRANSMITTER POWER OUTPUT
- Choose between 5W and 12W transmitter power outputs for superior tracing performance

BUILT FOR THE MOST DEMANDING ENVIRONMENTS
- IP65 protection
- Fulfils toughest standards - shock resistant, protected against water and dust ingress

SELECTABLE ANTENNA CONFIGURATION
- Configure antenna to best optimise for your job site
- Select between more range, sharper response, noise cancelling or easier sweeping

DIRECTION ENABLED
- Identifying your target utility amongst multiple parallel utilities
- Apply a special direction enabled signal from the transmitter, the receiver will display an arrow on the compass heading to guide you along the designated utility path

Leica ULTRA

Locators

Technical Data	Standard	Advanced
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 1 m)	
Dynamic range	117 dB	
Depth, max	6 m (20 ft)	
Locate accuracy	±5% depth	
Dynamic overload protection	30 dB (automatic)	
Depth accuracy	In line - ±5% to 3 m (±5% to 10 ft) Sonde - ±5% to 3 m (±5% to 10 ft) Passive - ±5% to 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	Up to 100 custom frequencies from 256 Hz - 83 kHz	
DE direction enabled	Any frequency from 256 Hz - 10 kHz	
Fault-finding DE based	263 Hz	
Cathodic protection frequencies	100 Hz, 120 Hz	
Power frequencies	50 Hz, 60 HZ, 100 Hz, 120 Hz, 150 Hz, 180 Hz, 450 Hz, 540 Hz	
Language support	17 user selectable	
Selectable auto shutdown	5, 10, 20 or 30 minutes	
PC based configuration	Software updates and configuration can 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	

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	✓	✓	✓
External 12V power connection			✓
Dual output			✓
Receiver / transmitter communications			✓
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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- when it has to be **right**

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