

# Leica ULTRA

## Precision utility tracing



# Leica ULTRA – Precision locating, for utility tracing

The complexity of underground utility networks are continually increasing. So obtaining precise information on the location of buried utilities has never been more important. The protection of buried assets during excavation work demands accurate mapping and surveying of existing utilities.

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.



## Ambient Interference Measurement (AIM)

When working in congested environments, external interferences can affect the effectiveness of utility tracing. To guard against interference, the Leica ULTRA incorporates advanced Ambient Interference Measurement (AIM), which analyses the surrounding area for noise and recommends the best frequencies for accurate utility tracing.



## Offset measuring

There will always be an occasion when the utility runs close to, or underneath an obstruction. With Offset Measuring, the Leica ULTRA can locate the target line if not directly accessible from above. The function uses the available data to estimate the horizontal and vertical (depth) distance.



## Transmitter to receiver link

Advanced communication link between the Leica ULTRA receiver and transmitter, enables you to control the transmitter directly from the receiver. Work smarter and at greater distances to help achieve best practice whilst reducing time spent walking to the transmitter.



### 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
- Fulfills 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

## 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.

Frequency	Name	Available	Enabled	Line	Bacon	Power	Dist. Control	Comp.	Incl. Dir.	Standard Comp.
60	60Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
64	64Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
75	75Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
80	80Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
100	100Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
120	120Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
126	126Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
150	150Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
160	160Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
180	180Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
200	200Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
220	220Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
250	250Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
260	260Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
270	270Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
280	280Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
285	285Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
300	300Hz	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				

Total Frequency Count: 78 of 100

### Leica Geosystems - when it has to be right.

Revolutionising the world of measurement and survey for nearly 200 years, Leica Geosystems creates complete solutions for professionals across the planet. Known for valuable products and innovative solution development, professionals in a diverse mix of industries, such as aerospace and defence, safety and security, construction, and manufacturing, trust Leica Geosystems for all their geospatial needs. With precise and accurate instruments, sophisticated software, and dependable services, Leica Geosystems delivers value every day to those shaping the future of our world.

Leica Geosystems is part of Hexagon (Nasdaq Stockholm: HEXA B; hexagon.com), a leading global provider of information technologies that drive quality and productivity improvements across geospatial and industrial enterprise applications.



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Brochure



**Construction  
Tools**  
Catalogue