



Leica DD Utility Locators

Product range introduction



1

Confidential

- when it has to be right



Leica DD Utility Locators

Introduction

Leica DD SMART utility locators, signal transmitters and data management software

- **Leica DD series, technology to identify underground assets**
 - Faster
 - Deeper
 - More accurately than any other system
 - With increased user confidence
 - Featuring on-board diagnostics to ensure optimal performance

Leica DD Utility Locators

Introducing the SMART range



Leica DD220 SMART



Leica DD230 SMART

Leica DD Utility Locators

Introducing the range - Construction



Leica DD220 SMART

- Best in class detection performance
- Industry leading processing power
- Innovative digital antenna
- Depth detection up to 7 meters (23 feet)
- Good-to-Go™ Health Check and Start up test
- On-board video user guides
- IP66 rating - protection from dust and water
- Web Calibration Verification
- SMART technology (GPS, Memory, Bluetooth)
- Li – Ion rechargeable battery

Leica DD Utility Locators

Introducing the range - Utility



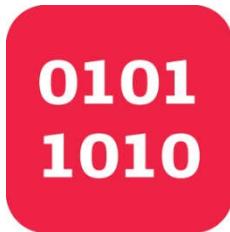
Leica DD230 SMART

Additional to DD220 SMART

- Extended trace range with additional 512Hz, 640Hz frequencies
- Signal current measurement
- Increased depth detection up to 10 m

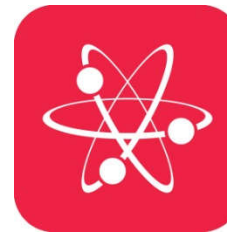
SMART Technology

Open the door to a connected world



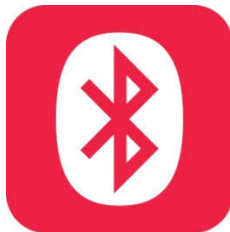
Data logging

Data stored to internal memory including GPS positioning



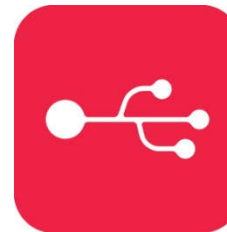
GPS

Assists report visualisation, providing a clearer view of site activities



Bluetooth Connectivity

Wireless connection to mobile devices, upload data to cloud based analysis software



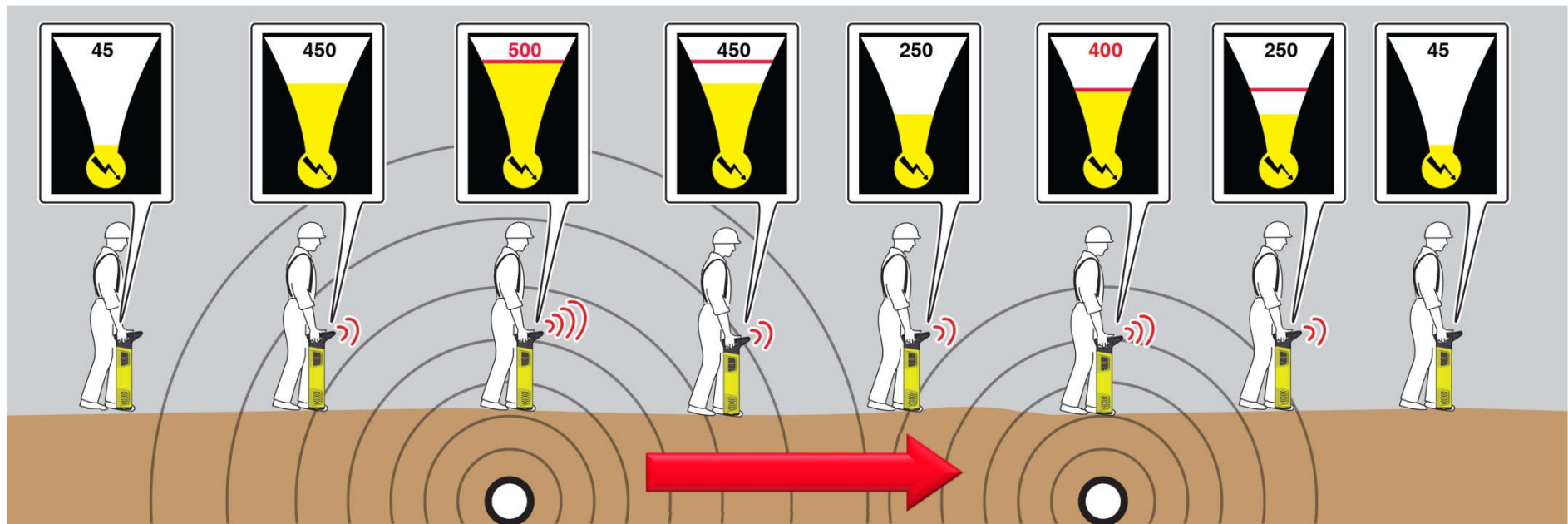
USB

Wired connectivity to office based analysis software

Windows, Android and Apple compatible

Providing greater performance

Simplifying Use



- **Auto mode** sweeps in both Power and Radio modes
- **Digital Signal Processing (DSP)** filters signals to ensure best detection capabilities
- **Automatic controls** replaces manual sensitivity
- **Pinpointing** with numerical and graphical display readings

Providing greater performance

Passive modes



Power Mode

Detect power signals radiated by energised cables which pose a serious risk



Radio Mode

Detect signals originating from distant radio transmitters

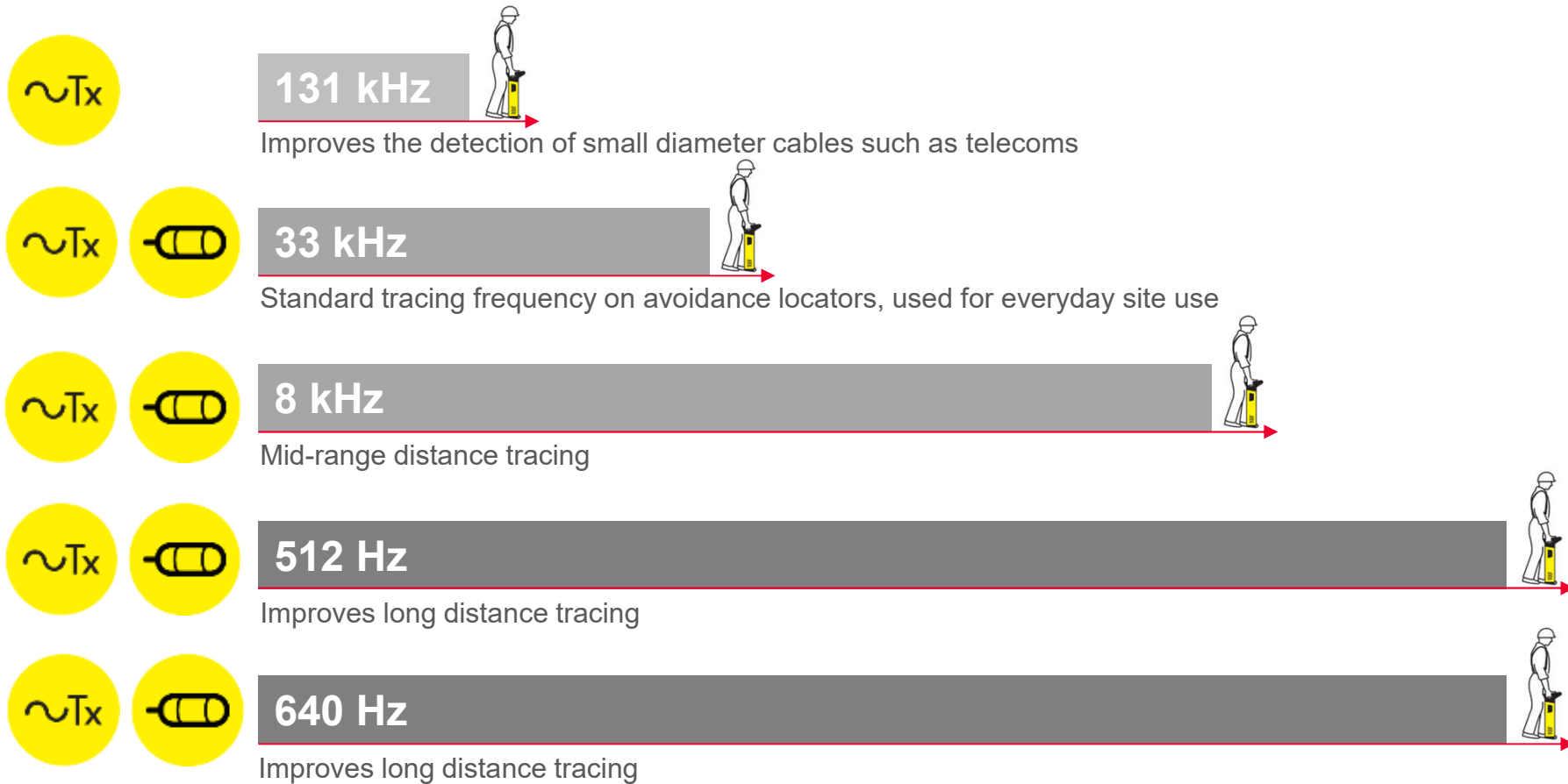


Auto Mode

Combines power and radio for a one sweep process

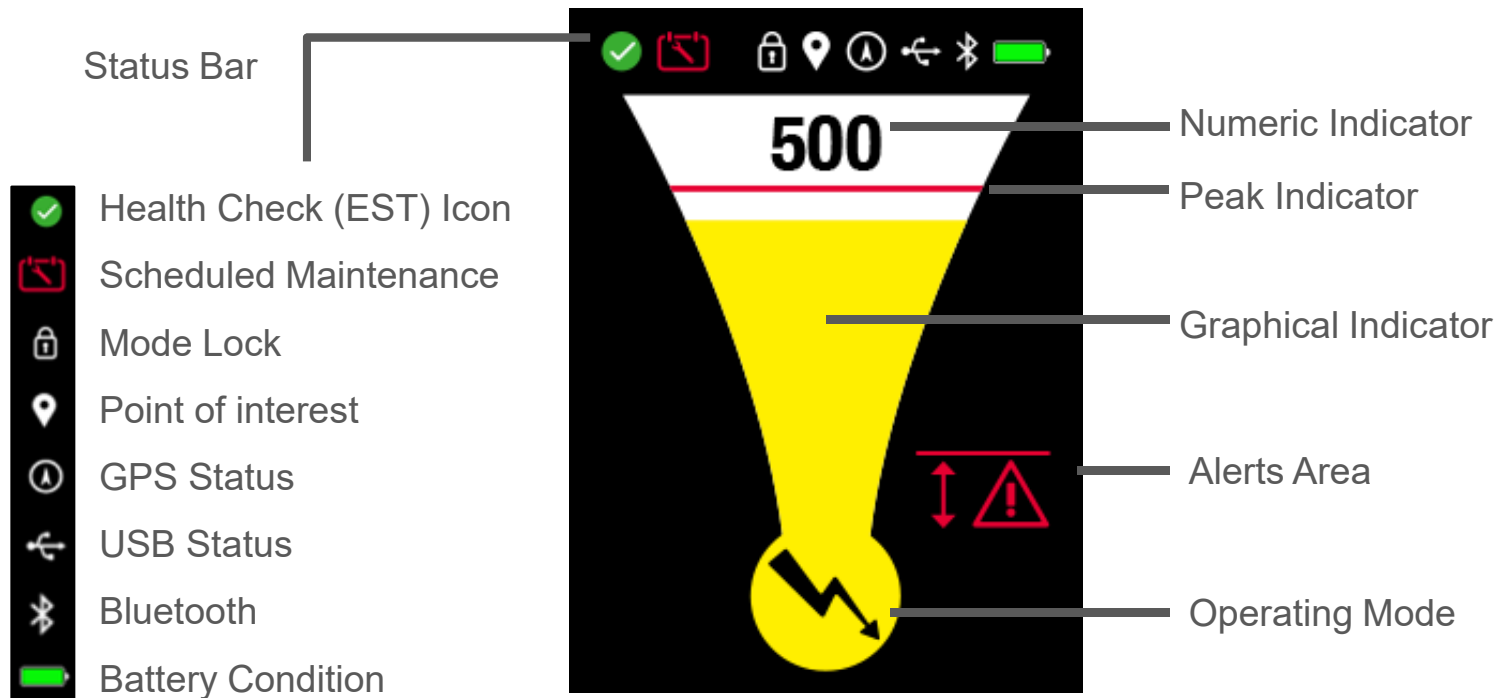
Providing greater performance

Active Modes



Providing clear information

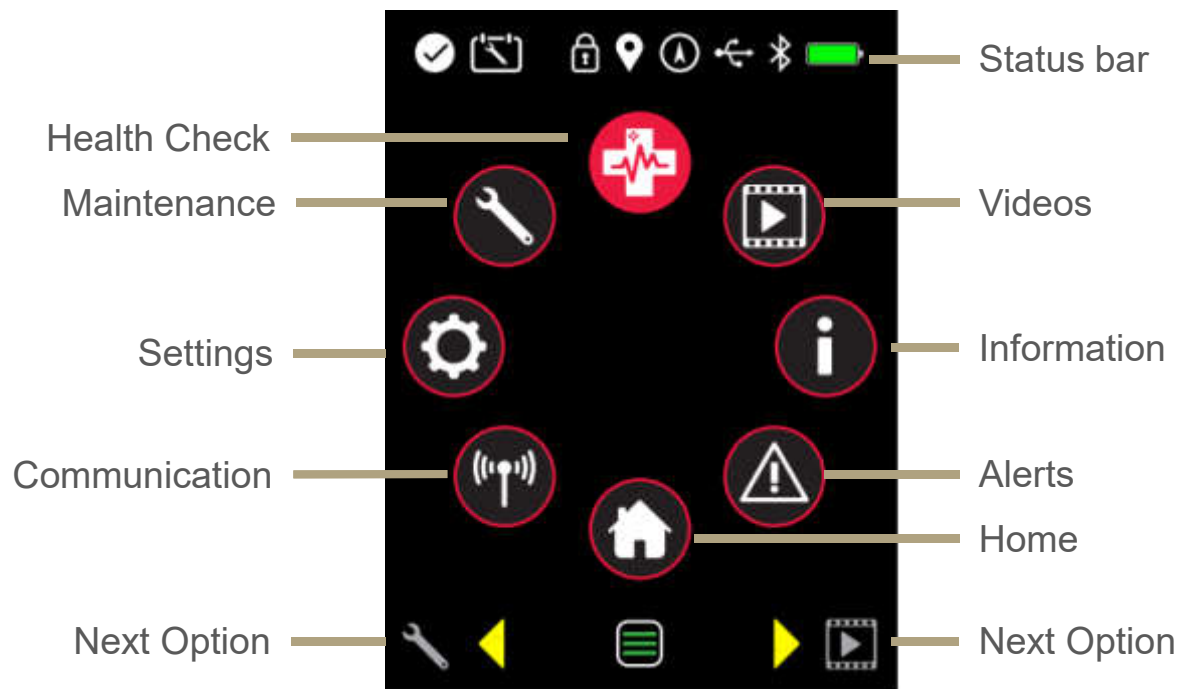
Instrument display



Providing clear information

Icon based navigation

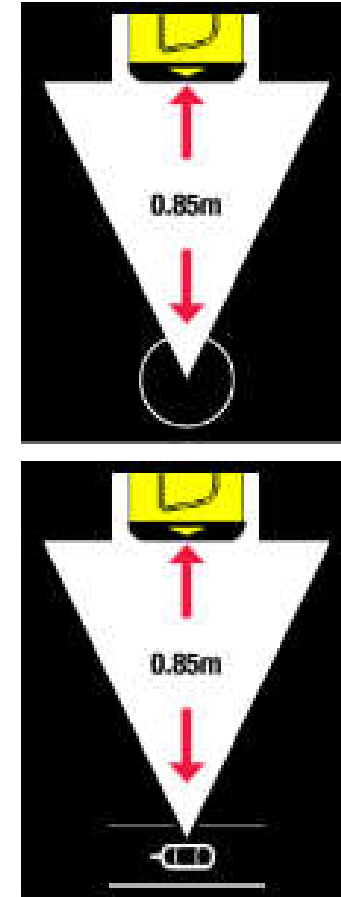
- Simplified navigation
- View maintenance history and training videos
- Customise and configure your locator



Providing clear information

Depth identification

- Clear depth readings
- Indicates depth reading to line or sonde
- Large graphical indication to the utility type
- Signal current measurement (DD230 models)



Increasing operator confidence

On-board training videos

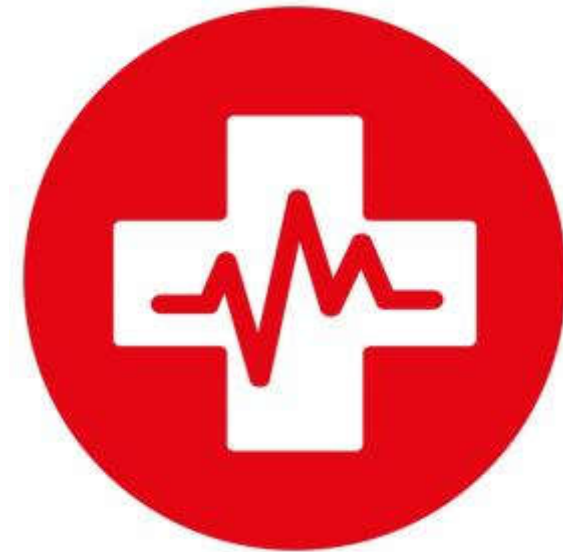
- Provides onsite operator support
- Refresh operator skills
- Promotes best practice
- Supports point of delivery
 - Simplifies hand over process during hire
 - Strengthens demonstration process



Increasing operator confidence

Good-to-Go™ Health Check

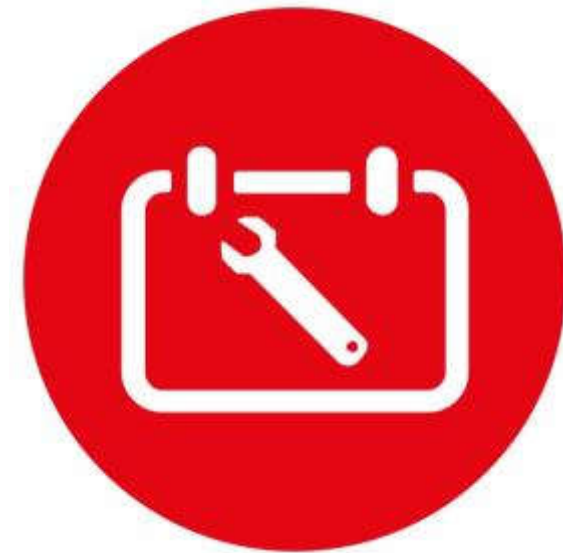
- Checks functionality on-demand
- Confirms each day that the instrument is Good-to-Go™
- Can be run manually or scheduled
- Stores results to the instrument's memory



Increasing operator confidence

Maintenance - Service due indicator

- Provides a service due indicator
- Alerts when a service is recommended
- Can be set to lock out unit, preventing operation if no service has been carried out



Increasing operator confidence

Calibration Verification

- Pay as you go calibration verification
- Connect instrument to PC / Laptop
- Calibration verified using an internet connection
- Certificate can be printed



Green Credentials

Improved sustainability

- **Rechargeable battery pack**
 - Interchangeable between locator and transmitter
 - Compatible with Leica Rugby laser chargers
 - Extended operating life to 5 years

- **Waste Reduction**
 - Save more than 200 Alkaline batteries or €400
 - Eliminates disposal of Alkaline batteries
 - Reduced environmental impact



Built for the environment

Highest Protection

- **Class-leading IP66 rating**
 - Protects against water ingress
 - Protects against dust ingress
 - Designed to withstand tough site conditions
- **Extends working life**
 - Reduced downtime from repair caused by water or dust ingress

IP66

Certified

Industry leading warranty

Peace of mind support

- **Leica PROTECT**
 - 3 Year warranty
- **myWorld**
 - Technical support
 - Instant access to information
 - Keep you and your equipment up-to-date



Leica DD Utility Locators

Introducing the range



Leica DD120



Leica DD130

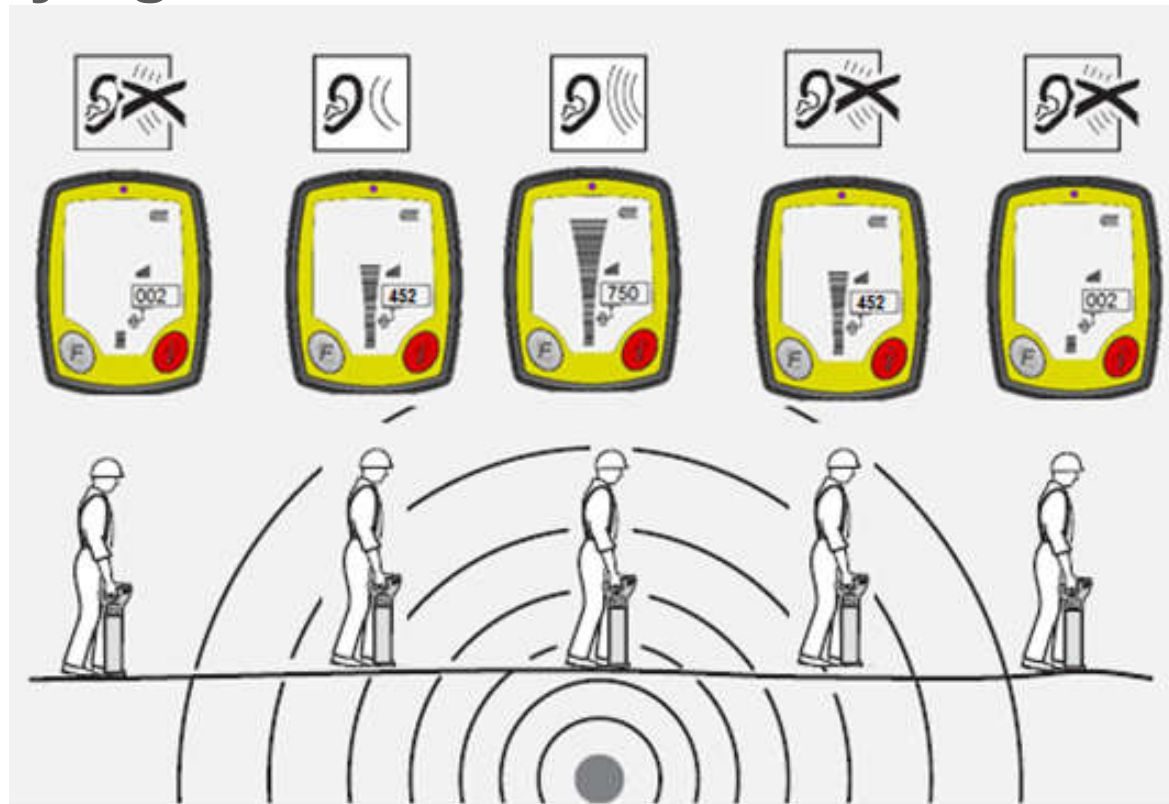
Leica DD Utility Locators

Simplifying Use

- **Ease of Use** - The locator requires minimal adjustment to locate services. Removing the sensitivity control also ensures detectable services cannot be missed where the user reduces sensitivity too much.
- **In-built Self Test** - A quick check can easily be performed by staff or users to ensure units are working correctly. This can be carried out when off-hiring locators or handing over to users for the first time.
- **Signal Strength Indication (SSI)** - features numeric signal strength readout, specifically designed for easy cable identification.
- **Hazard Zone** – Alert the user to shallow services within 30cm of the locator. This can enable users to change their method of breaking ground and prevent cable strikes.
- **512Hz , 640Hz , 8kHz and 33kHz frequencies**
A mixture of low and high frequencies gives operators flexibility. They can use the standard avoidance frequency (33kHz) or long distance tracing frequency (512 or 640Hz).

Leica DD Utility Locators

Simplifying Use

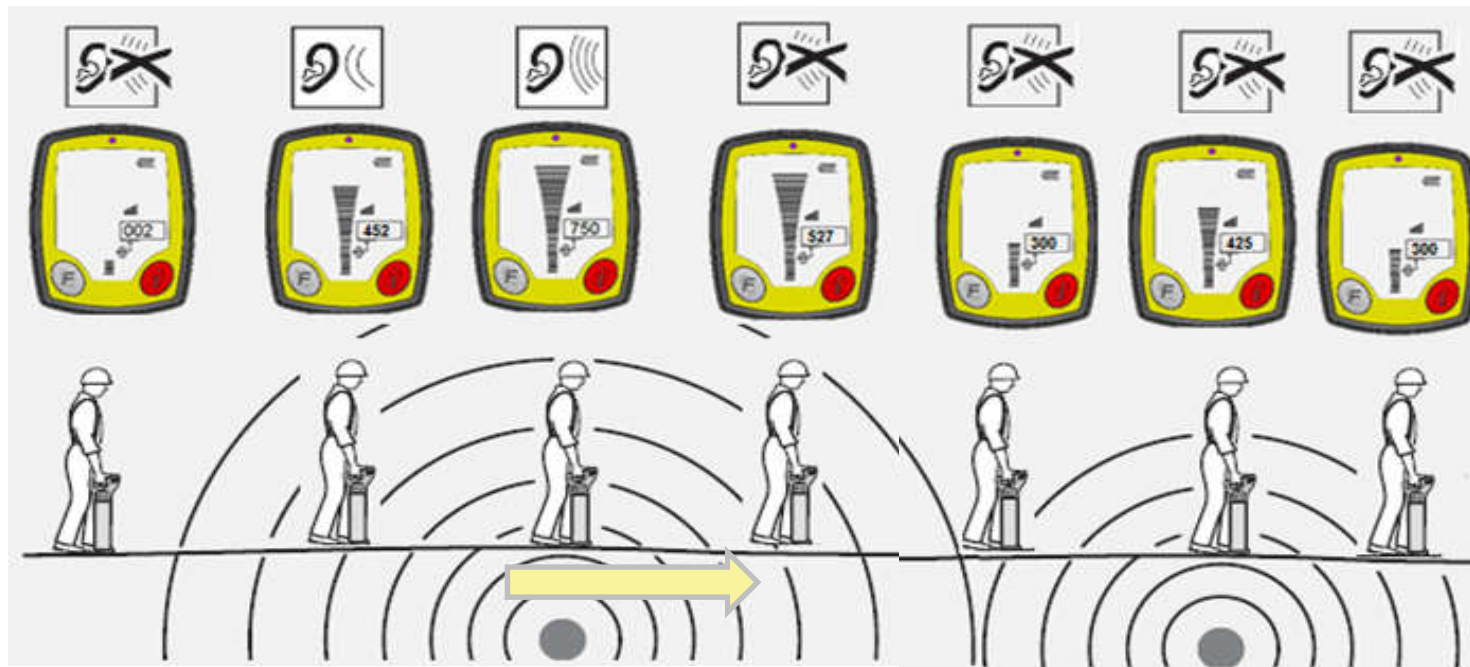


Automatic Pinpointing- No manual adjustment required

Leica DD Utility Locators

Simplifying Use

The sweep process can be used to identify additional utilities within the work area.



Once you have pinpointed a utility continue with the sweep process.

Additional utilities will be indicated on the Locators display.

Providing greater performance

Passive modes



Power Mode

Detect power signals radiated by energised cables which pose a serious risk



Radio Mode

Detect signals originating from distant radio transmitters

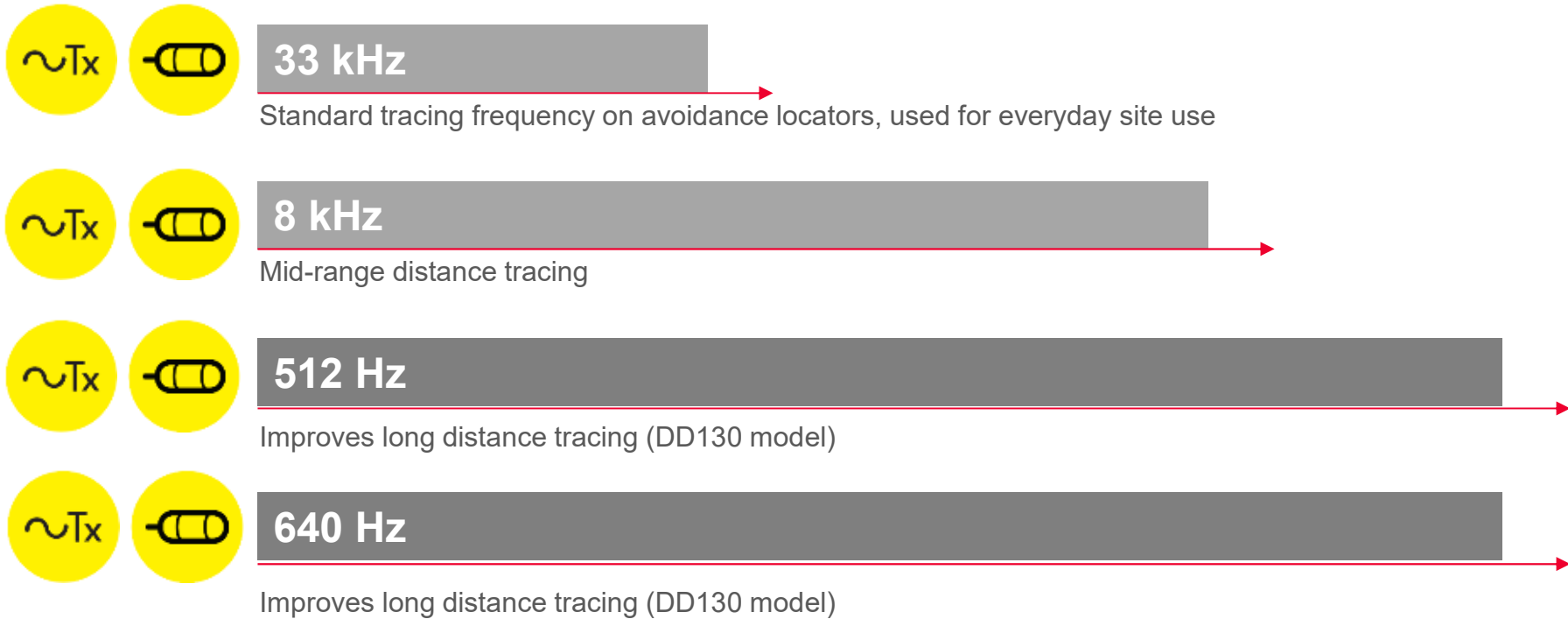


Auto Mode

Combines power and radio for a one sweep process

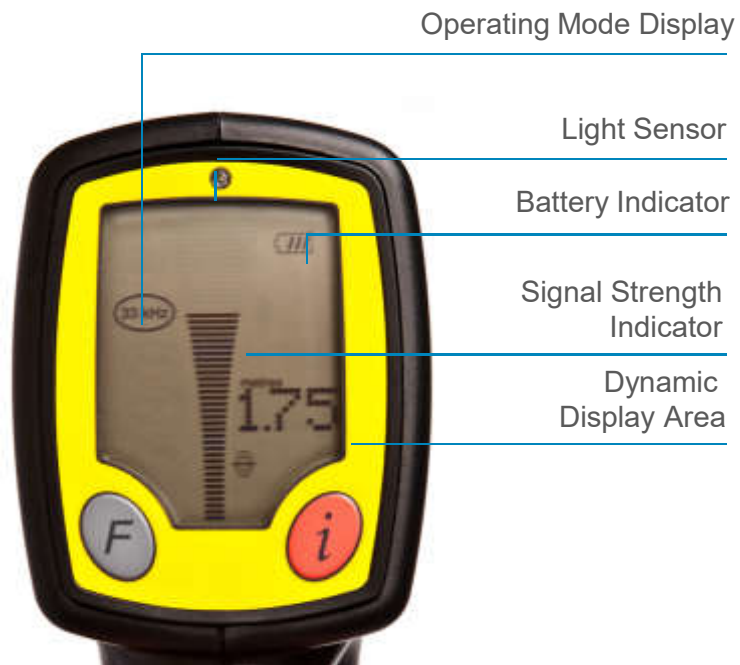
Providing greater performance

Active Modes



Leica DD Utility Locators

Control Panel



Built for the environment

Protection

- **IP54 rating**
 - Protects against water ingress
 - Protects against dust ingress
 - Designed to withstand tough site conditions

- **Extends working life**
 - Reduced downtime from repair caused by water or dust ingress

I P 5 4

Certified

Industry leading warranty





Peace of mind support

- **Leica PROTECT**
 - 1 Year warranty
- **myWorld**
 - Technical support
 - Instant access to information
 - Keep you and your equipment up-to-date



Leica DD Utility Locators

Powerful Features

	Leica DD120	Leica DD130	Leica DD220 SMART	Leica DD230 SMART
				
Detection Modes				
• Passive Modes	Power, Radio, Auto	Power, Radio, Auto	Power, Radio, Auto	Power, Radio, Auto
• Transmitter Modes (Standard)	33kHz, 8kHz	33kHz, 8kHz	131kHz, 33kHz, 8kHz	131kHz, 33kHz, 8kHz
• (Long distance trace)	No	512Hz, 640Hz	No	512Hz, 640Hz
• Depth Estimation - Line	3m (10ft)	3m (10ft)	5m (16ft)	7m (23ft)
• Depth Estimation - Sonde	3m (10ft)	9.9m (33ft)	7m (23ft)	10m (33ft)
• Accuracy	+/- 10%	+/- 10%	+/- 5%	+/- 5%
• Current Measurement	No	Yes	No	Yes
Detect Aides				
• Display Type	Monochrome	Monochrome	Large Colour	Large Colour
• Utility Pinpointing	Automatic	Automatic	Automatic	Automatic
• Numeric Peak Indicator	Yes	Yes	Yes	Yes
• Graphical Peak Indicator	Yes	Yes	Yes	Yes
• Automatic audio pinpointing	Yes	Yes	Yes	Yes
• Mode Lock	No	Yes	Yes	Yes



Leica DD Utility Locators

Powerful Features

User Aides	DD120	DD130	DD220 SMART	DD230 SMART
• Onboard Video Tutorials	No	No	Yes	Yes
• Swing Alert	No	No	Yes	Yes
• Hazard Zone	Yes	Yes	Yes	Yes
• Maintenance Reminder	Yes	Yes	Yes	Yes
• Diagnostic Alerts	No	No	Yes	Yes
• Health Check (EST)	Yes	Yes	Yes	Yes
Smart Features				
• Datalogging • (Internal Memory)	No	No	8Gb	8Gb
• GPS	No	No	2.5m (8.2ft) CEP	2.5m (8.2ft) CEP
• Bluetooth	No	No	Classic & Low energy	Classic & Low energy
• USB	No	No	Yes	Yes
• Digital Spray Mark • (Point of interest)	No	No	Yes	Yes
• Protection	IP54	IP54	IP66	IP66
• Battery Supply (Standard)	Alkaline	Alkaline	Li Ion rechargeable	Li Ion rechargeable
• Warranty	1 years	1 years	3 years	3 years
• Weight	2.7kg (5.95lbs)	2.7kg (5.95lbs)	2.7kg (5.95lbs)	2.7kg (5.95lbs)



Leica DA Signal Transmitters

Signal Transmitter Range - Construction

Image	Overview	Compatibility
	<p>DA220 1 Watt Signal Transmitter</p> <p>Trace frequencies, 8kHz, 33kHz, 131kHz and combined (33 kHz +131 kHz) Rechargeable battery as standard Power charger IP67 rating 3 Year warranty</p>	<p>DD120 Locator</p> <p>DD220 Smart Locator</p>
	<p>DA220 3 Watt Signal Transmitter</p> <p>Trace frequencies, 8kHz, 33kHz, 131kHz and combined (33 kHz +131 kHz) Rechargeable battery as standard Power charger IP67 rating 3 Year warranty</p>	<p>DD120 Locator</p> <p>DD220 Smart Locator</p>




Leica DA Signal Transmitters

Signal Transmitter Range - Utilities

Image	Overview	Compatibility
	<p>DA230 1 Watt Signal Transmitter</p> <p>Trace frequencies, 512Hz, 640Hz 8kHz, 33kHz, 131kHz and combined (33 kHz +131 kHz) Rechargeable battery as standard Power charger IP67 rating 3 Year warranty</p>	<p>DD130 Locator</p> <p>DD230 Smart Locator</p>
	<p>DA230 3 Watt Signal Transmitter</p> <p>Trace frequencies, 512Hz, 640Hz 8kHz, 33kHz, 131kHz and combined (33 kHz +131 kHz) Rechargeable battery as standard Power charger IP67 rating 3 Year warranty</p>	<p>DD130 Locator</p> <p>DD230 Smart Locator</p>

Leica DA Signal Transmitters

Powerful Features

	Leica DA220 1 Watt	Leica DA220 3 Watt	Leica DA230 1 Watt	Leica DA230 3 Watt
				
Locator Compatibility	DD220 Smart DD120	DD220 Smart DD120	DD230 Smart DD130	DD230 Smart DD130
Output Frequencies	131kHz, 33kHz, 8kHz	131kHz, 33kHz, 8kHz	131kHz, 33kHz, 8kHz,	131kHz, 33kHz, 8kHz,
Output Frequencies (long distance)	No	No	512Hz, 640Hz	512Hz, 640Hz
Power Output	1 Watt	3 Watt	1 Watt	3 Watt
Power Output levels	4 levels	4 levels	4 levels	4 levels
Health Check	Yes	Yes	Yes	Yes
Protection	IP67	IP67	IP67	IP67
Battery Supply (Standard)	Li Ion rechargeable	Li Ion rechargeable	Li Ion rechargeable	Li Ion rechargeable
Warranty	3 years	3 years	3 years	3 years
Weight	2.38 Kg (5.25 lbs)	2.38 Kg (5.25 lbs)	2.38 Kg (5.25 lbs)	2.38 Kg (5.25 lbs)