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# Leica DD Utility Locators

## Product range introduction



1

Confidential

- when it has to be right

*Leica*  
Geosystems

# 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



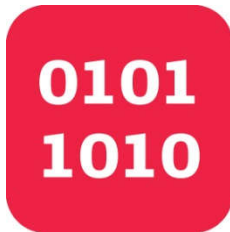
### Leica DD230 SMART

Additional to DD220 SMART

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

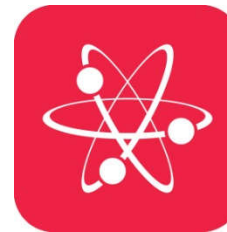
# SMART Technology

## Open the door to a connected world



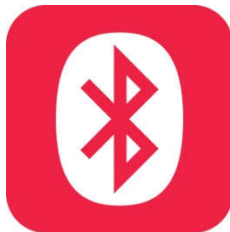
### Data logging

Data stored to internal memory including GPS positioning



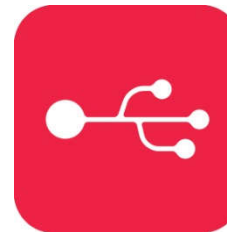
### GPS

Assists report visualisation, providing a clearer view of site activities



### Bluetooth Connectivity

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



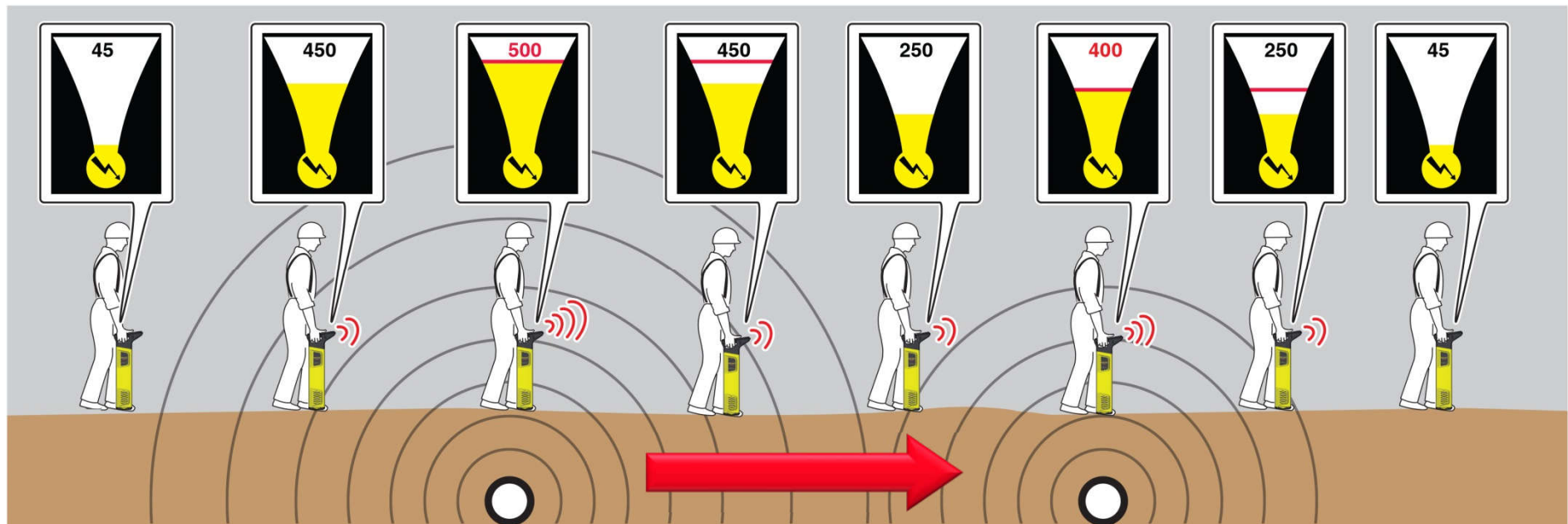
### USB

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

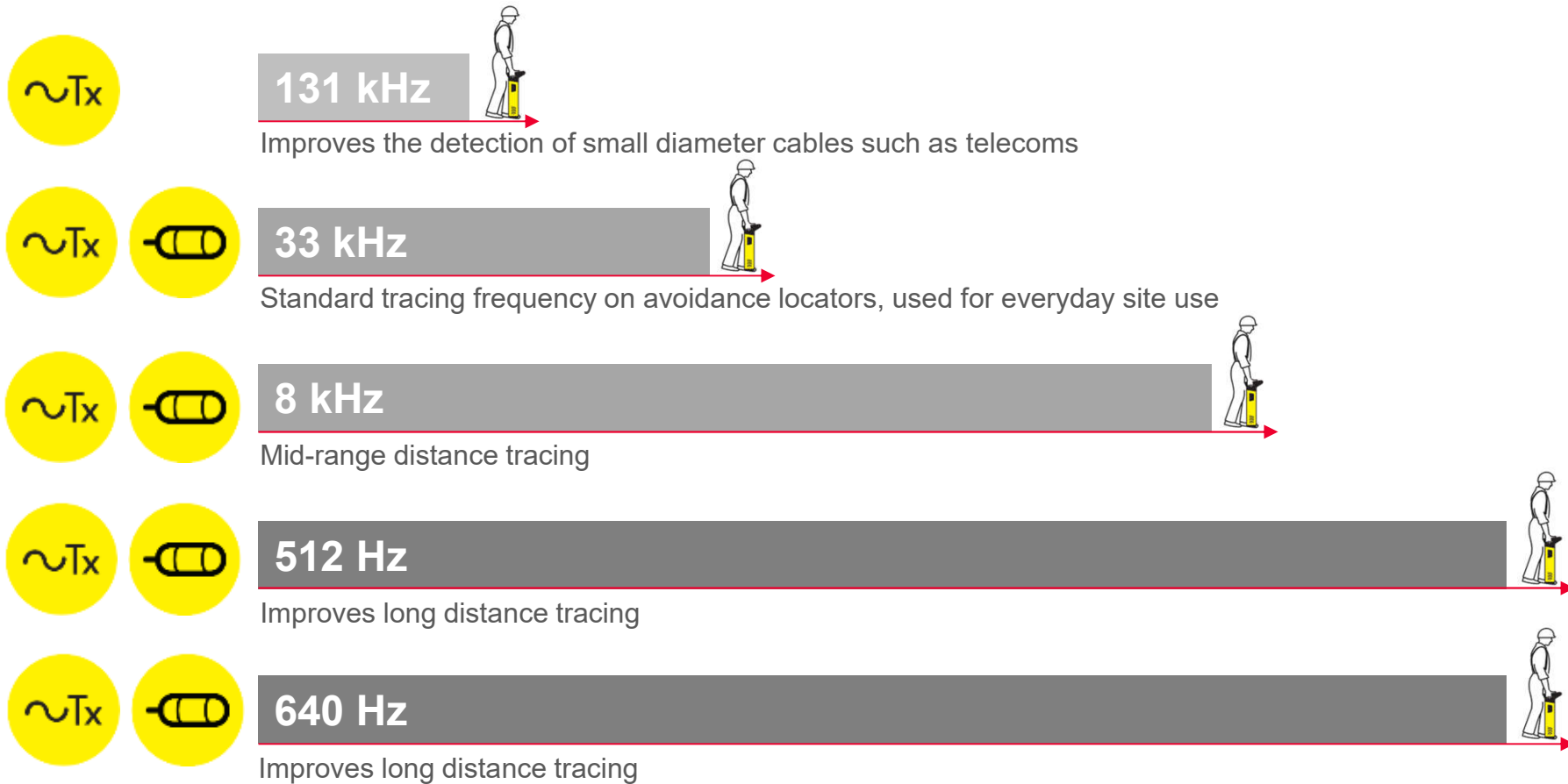


### Auto Mode

Combines power and radio for a one sweep process

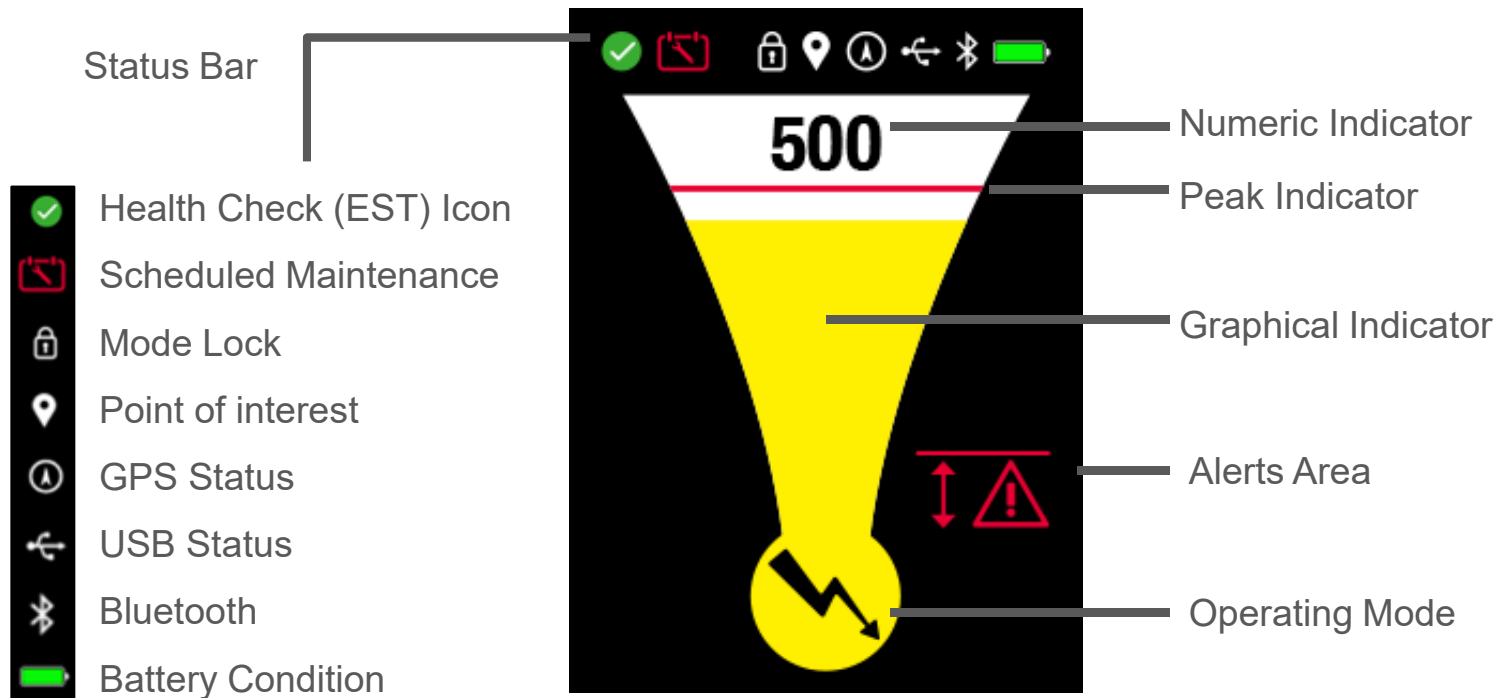
# Providing greater performance

## Active Modes



# Providing clear information

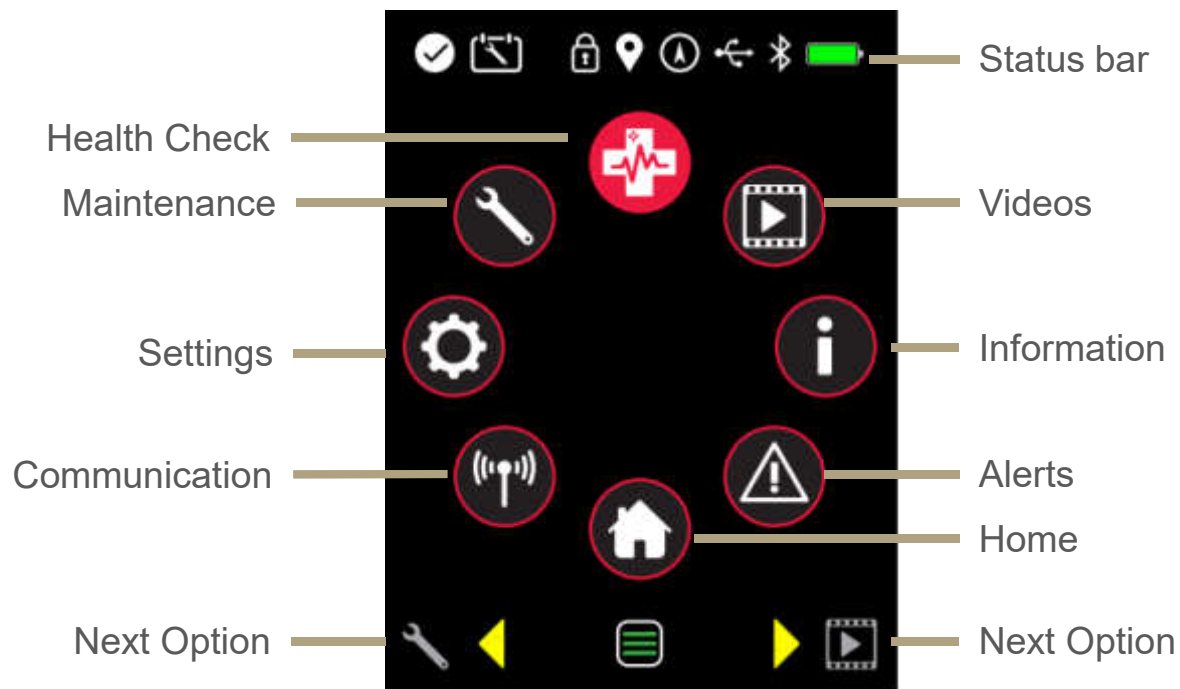
## Instrument display



# Providing clear information

## Icon based navigation

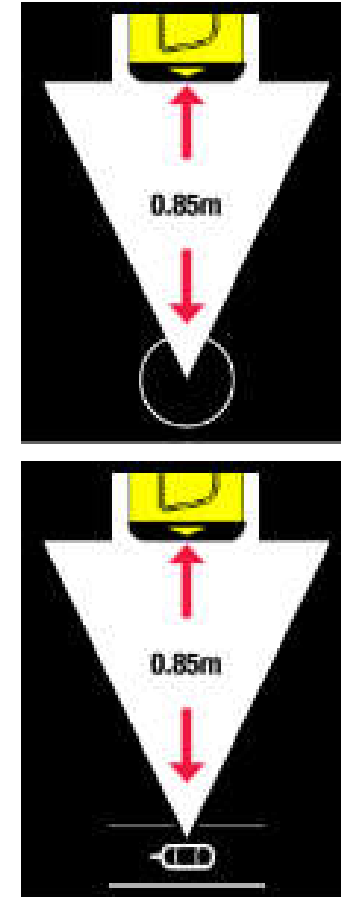
- Simplified navigation
- View maintenance history and training videos
- Customise and configure your locator



# 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

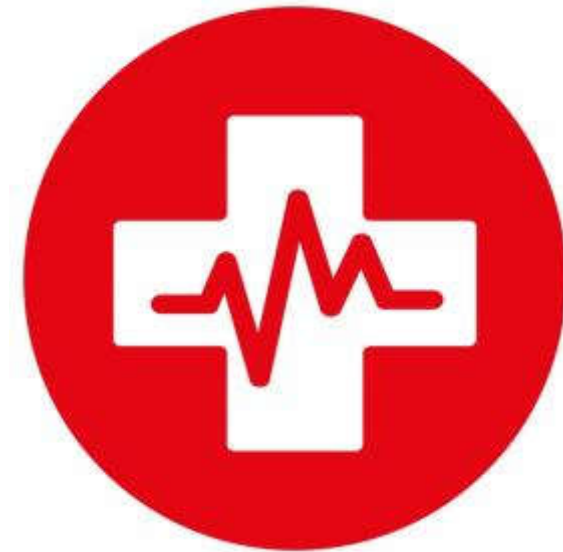
- Provides onsite operator support
- Refresh operator skills
- Promotes best practice
- Supports point of delivery
  - Simplifies hand over process during hire
  - Strengthens demonstration process



# Increasing operator confidence

## Good-to-Go™ Health Check

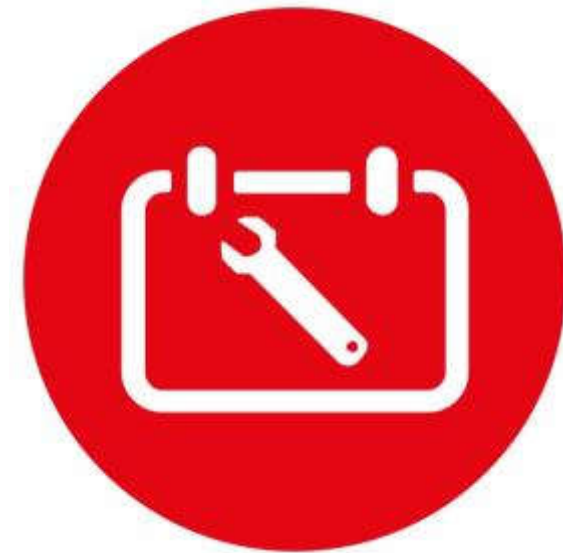
- Checks functionality on-demand
- Confirms each day that the instrument is Good-to-Go™
- Can be run manually or scheduled
- Stores results to the instrument's memory



# 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

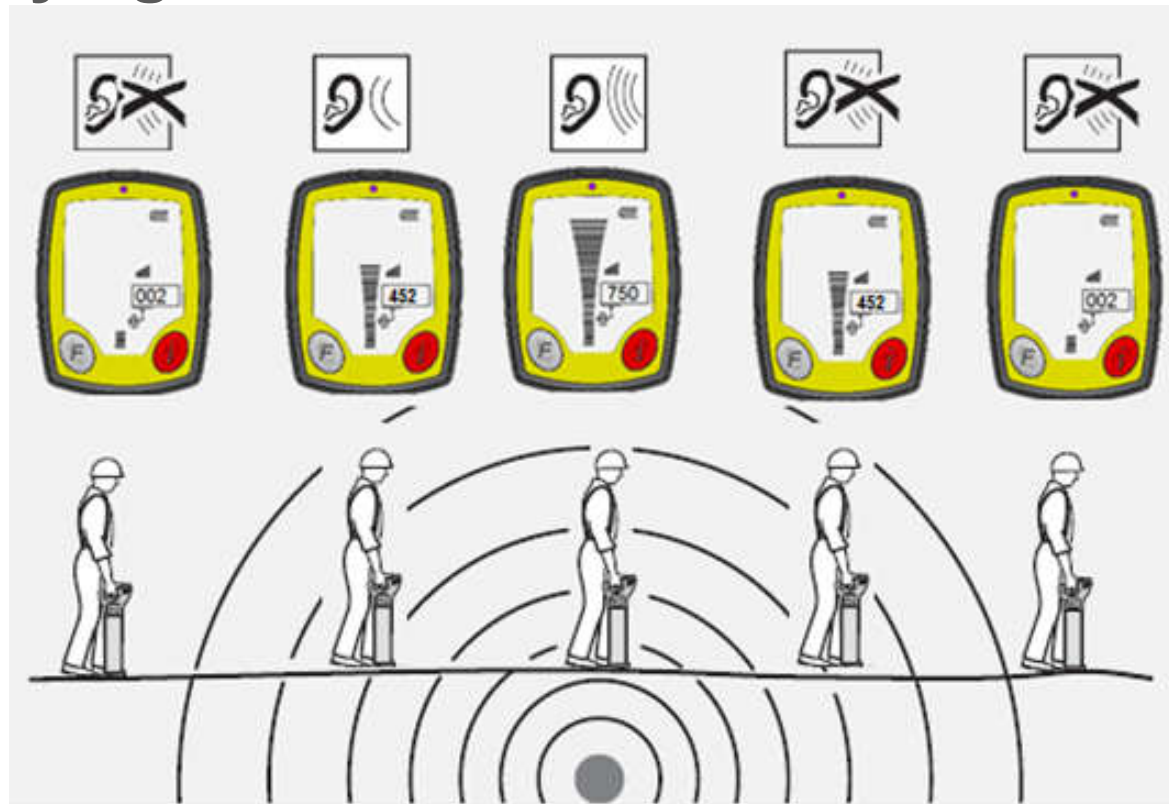
# Leica DD Utility Locators

## 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

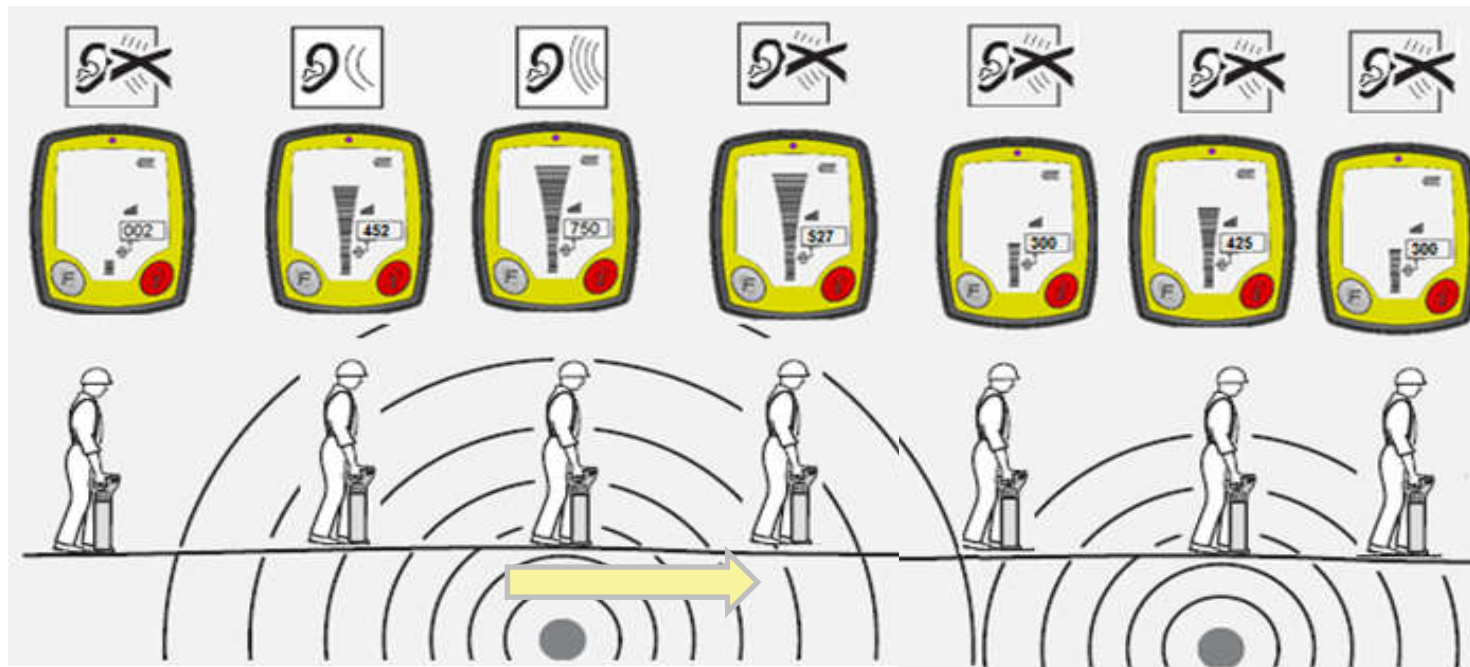


Automatic Pinpointing- No manual adjustment required

# 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

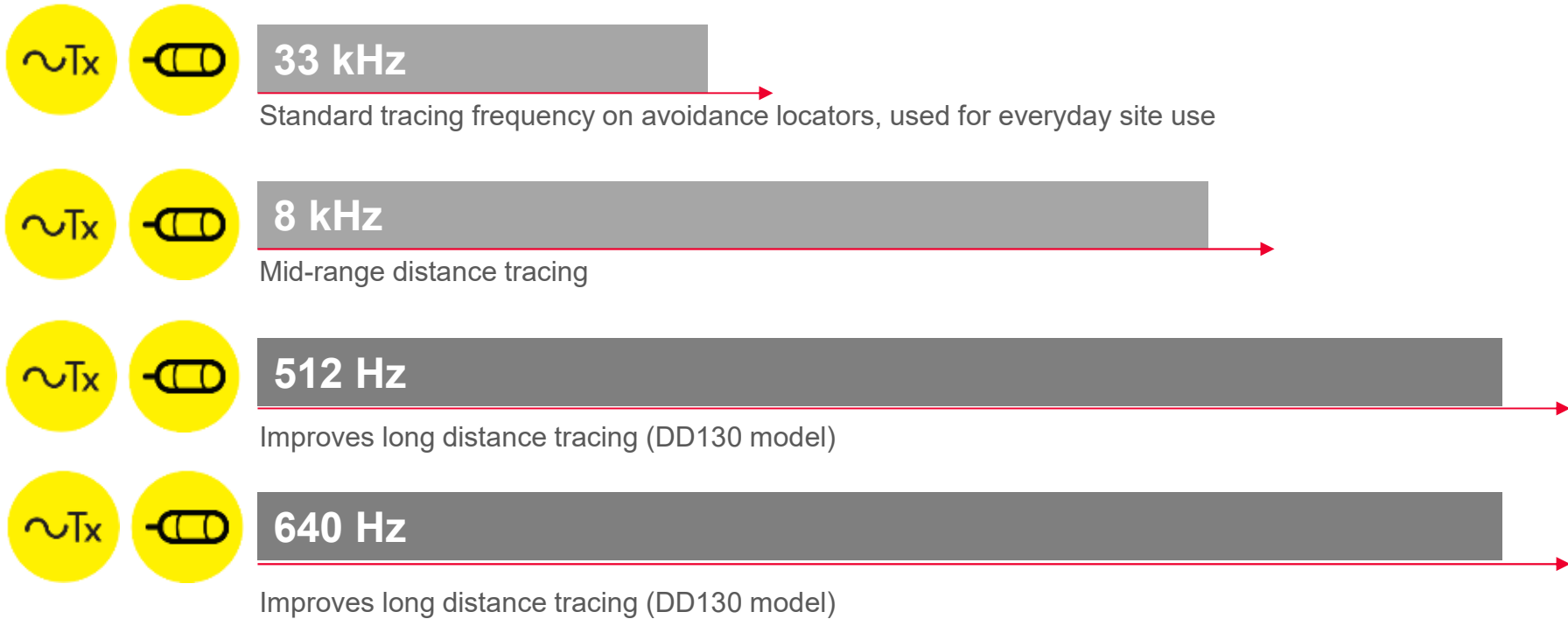


### Auto Mode

Combines power and radio for a one sweep process

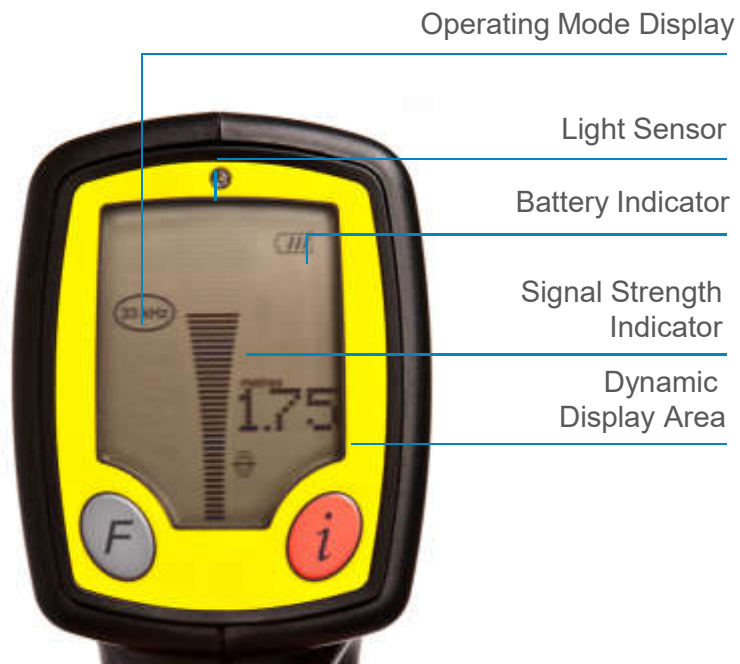
# Providing greater performance

## 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
				
<b>Detection Modes</b>				
• <b>Passive Modes</b>	Power, Radio, Auto	Power, Radio, Auto	Power, Radio, Auto	Power, Radio, Auto
• <b>Transmitter Modes (Standard)</b>	33kHz, 8kHz	33kHz, 8kHz	131kHz, 33kHz, 8kHz	131kHz, 33kHz, 8kHz
• <b>(Long distance trace)</b>	No	512Hz, 640Hz	No	512Hz, 640Hz
• <b>Depth Estimation - Line</b>	3m (10ft)	3m (10ft)	5m (16ft)	7m (23ft)
• <b>Depth Estimation - Sonde</b>	3m (10ft)	9.9m (33ft)	7m (23ft)	10m (33ft)
• <b>Accuracy</b>	+/- 10%	+/- 10%	+/- 5%	+/- 5%
• <b>Current Measurement</b>	No	Yes	No	Yes
<b>Detect Aides</b>				
• <b>Display Type</b>	Monochrome	Monochrome	Large Colour	Large Colour
• <b>Utility Pinpointing</b>	Automatic	Automatic	Automatic	Automatic
• <b>Numeric Peak Indicator</b>	Yes	Yes	Yes	Yes
• <b>Graphical Peak Indicator</b>	Yes	Yes	Yes	Yes
• <b>Automatic audio pinpointing</b>	Yes	Yes	Yes	Yes
• <b>Mode Lock</b>	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
<b>Smart Features</b>				
• 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><b>DA220 1 Watt Signal Transmitter</b></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><b>DA220 3 Watt Signal Transmitter</b></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><b>DA230 1 Watt Signal Transmitter</b></p> <p>Trace frequencies,  <b>512Hz, 640Hz</b>            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><b>DA230 3 Watt Signal Transmitter</b></p> <p>Trace frequencies,  <b>512Hz, 640Hz</b>            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)

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