# Leica DD300 Connect Depth Package

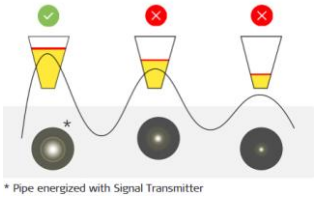

The Leica DD300 CONNECT is the utility locator solution allowing basic to expert users in the detection of underground pipes with ease-of-use, speed and accuracy, improving safety by mitigating risks associated with anyone who is working on construction sites.

The Leica DD300 Connect Utility Locator features an LCD color screen with video tutorials for a simple step-by-step survey. The DD300 Connect offers a wide range of standard frequencies, including an 83kHz high frequency that bridges the gap from 33kHz to 131kHz. It is equipped with an innovative digital trim, providing accurate detection even in multi-target environments. Thanks to the integration with DX Shield suite, users can achieve an integrated and comprehensive understanding of site activities to analyze data, create reports on product use, configure and maintain the device.

## Using the Leica Cable Detection Kit

**Easy and Accurate**
DD300 CONNECT is equipped with an innovative digital trim, providing accurate detection even in multi-target environments.

**Digital Trim**
The digital trim assists the operator in pinpointing the desired target, allowing the manual management of the gain bar while locating underground utilities.




**One for All**
Leica DD300 CONNECT
DD300 CONNECT encompasses in one device everything basic to expert users need. LCD colour screen with Video Tutorials allows for a step-by-step survey.

**Reliable**
DD300 CONNECT offers a wide range of standard frequencies. It boasts an 83kHz bridging the gap from 33kHz to 131kHz.

**Software**
For professionals looking to streamline utility locating operations, the Leica DD 300 CONNECT utility locator solution represents a single source solution. DX Shield provides a space for utility analysis and a convenient connection between locators to increase productivity and save time. DX Shield software allows you to gain a better understanding of task performance and site complexities with easy-to-use reports that provide a fast and convenient overview of product use, reducing utility strikes and saving direct repair costs and project downtime.

# Components

## Cable Locator

**a) Display panel**
Contains the operational controls.

**b) Speakers**
(mounted internally left and right) Active at power on and when a signal is detected

**c) On/Off trigger**
Press and hold the trigger to activate the Locator. Release the trigger to deactivate.

**d) Battery hatch release**
Pressing the release button unlocks the battery hatch allowing access to the battery compartment.

**e) Battery compartment**
6 x LR6 (AA) alkaline batteries are used. Replace all batteries when indicated.

**f) Case foot**
The case foot can be replaced if it is worn. Contact your agency or Leica Geosystems authorised service workshop.


## Signal Transmitter


**a)** Accessory compartment

**b)** Connection socket

**c)** 4 × LR20 alkaline batteries compartment

**d)** Signal transmitter keyboard

**e)** Speaker

**f)** Induction arrow

# Technical Specifications

| Mode | DD300 Connect |
|---|---|
| Power | 50 / 60 Hz (Mains Electrical and Harmonics) |
| Radio | 15kHz to 60kHz |
| Auto | Power, Radio, 33kHz |
| Transmitter Modes | 131.072 (131) kHz |
| | 83.078 (83) kHz |
| | 32.768 (33) kHz |
| | 8.192 (8) kHz |
| | 512 Hz |
| | 640 Hz |
| Depth Range | Line 0.1m to 7m |
| | Sonde 0.1 to 10m |
| Depth Accuracy* | 5% |
| Bluetooth | Class 2 BLE Dual Mode Module |
| | Bluetooth Classic 2.1 |
| | Bluetooth 4.0 (LE) |
| GPS** | Chipset (1): u-blox® GPS |

| | |
|---|---|
| | Receiver Type: GPS L1C/A, SBAS L1C/A, |
| | QZSS L1C/A, GLONASS L1OF, BeiDou B1 |
| | Accuracy (2): Horizontal Position 2.5 m |
| | Autonomous, 2.0 m SBAS, CEP |
| | Start time: Cold 45 s typical, Aided 7s |
| | typical, Hot 1s typical |
| Memory Capacity | 8 GB Internal Memory |
| Environmental Standard | IP65 |
| Operating Temperature | -20°C - 50°C |
| Battery | 4 x LR20 Alkaline Battery - Li-Ion as Optional |
| Battery Operating Time*** | 10h |
| Dimensions (HxWxD) | 765mm x 290mm x 93mm |
| Weight with Batteries | 2.86 kg |

*Depth to an undistorted signal
** (1) All data/information according to manufacturer u-blox® GPS; Leica Geosystems does not assume any liability whatsoever for such information. (2) Accuracy is dependent upon various factors including atmospheric conditions, multipath, obstructions, signal geometry and number of tracked satellites.
*** Constant use at 20°C

| **Mode** | **DA300** |
|---|---|
| Induction Mode Frequencies | 32.768 (33) kHz / 8.192 (8) kHz |
| Power Output | Up to 1 Watt maximum |
| Direct Connection Mode Frequencies | 131.072 (131) kHz / 83.078 (83) kHz<br>32.768 (33) kHz / 8.192 (8) kHz / 512 Hz / 640 Hz |
| Environmental Standard | IP67 |
| Operating Temperature | -20 °C to +50 °C |
| Storage Temperature | -40°C to +70°C |
| Battery | 4 x LR20 Alkaline Battery - Li-Ion as Optional |
| Battery Operating Time ** | 15h |
| Dimensions ( HxWxD) | 250mm x 206mm x 113mm |
| Weight with Batteries | 2.46 kg |

** Defined at 20°C Power Level 2

## Packing List

| |
|---|
| DD300 Connect Locator |
| DA300 1 Watt Signal Transmitter |
| Transmitter cable extension (850286) |
| System carry bag |
| 3-year Warranty |
| Alkaline batteries for Locator and Transmitter |

## Part Numbers

Leica DD300 Connect Locator

Part Number: 1003191

Leica DA300 Signal Transmitter


Part Number: 1003819

Transmitter Cable Extension

Part Number: 850286

System Carry Bag

Part Number: 850277

## Accessories

Trace Rod 50

Part Number: 850278

Trace Rod 80

Part Number: 850279

Transmitter Clamp 100mm

Part Number: 850280

Transmitter Clamp 80mm

Part Number: 850281

Mini Sonde 33

Part Number: 850288

Midi Sonde 33/8

Part Number: 850289

Maxi Sonde 33/8

Part Number: 850290

Clamp Sonde 33

Part Number: 850291

Duct Sonde

Part Number: 856131