Leica Detection DD Series Locators & Accessories

Quick Guide
Version 1.1
English

- when it has to be **right**

Leica Geosystems

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1 Important Information about your Instrument

Read and follow the User Manual on https://myworld-portal.leica-geosystems.com/ before using the product.

Direct link to DD120/DD130/ DD175:	Direct link to DD300:

- This Quick Start Guide contains first use directions as well as initial, basic instructions for setting up the product and operating it.
- Keep all documentation for future reference!

Intended use

The products are intended to be used for the following applications:

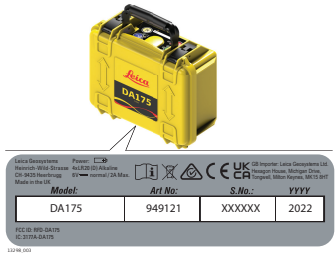
- Detection, localisation and estimation of the depth of underground utilities with the use of approved accessories
- Localisation, recording and storage of product usage
- Data transfer with Bluetooth
- Data communication with external appliances

The product must not be disposed with household waste.

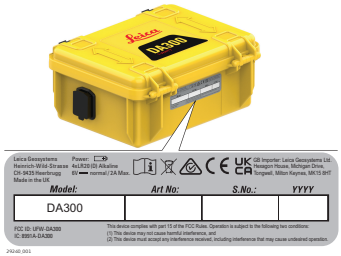
1.1 Conformity to National Regulations

Labelling DA series transmitters

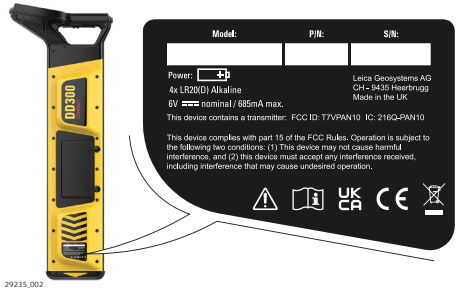
DA175:



DA300:



Labelling DD120/DD130/ DD175/DD300



Valid for DA175/DA300 in EU:

EU

Hereby, Leica Geosystems AG declares that the product/s is/are in compliance with the essential requirements and other relevant provisions of the applicable European Directives.
The full text of the EU declaration of conformity is available at the following Internet address:
http://www.leica-geosystems.com/ce.

Valid for DD120/DD130/DD175/DD300 in EU:

EU

Hereby, Leica Geosystems AG declares that the radio equipment type DD120/DD130/DD175/DD300 is in compliance with Directive 2014/53/EU and other applicable European Directives.
The full text of the EU declaration of conformity is available at the following Internet address: http://www.leica-geosystems.com/ce.

Valid for DA175/DA300 in United Kingdom:

UKCA

Hereby, Leica Geosystems AG declares that the product/s is/are in compliance with the essential requirements and other relevant provisions of the applicable UK Directives. The full text of the UKCA declaration of conformity is available at the following Internet address:
https://leica-geosystems.com

Valid for DD120/DD130/DD175/DD300 in United Kingdom:

UKCA

Hereby, Leica Geosystems AG declares that the radio equipment type DD120/DD130/DD175/DD300 is following the provisions of the applicable relevant statutory requirement UK Directive UK SI 2017 No. 1226 Radio Equipment Regulation 2017. This equipment can be placed on the market and be put into service without restriction in any UK Country.

Licensing requirements in UK can be found here:
https://myworld.leica-geosystems.com

Valid for DD120/DD130 in USA/Canada:

USA

FCC Part 15, Part 15 B/C

Canada

CAN ICES-003 B/NMB-003 B

Valid for DD175/DD300 and DA175/DA300 in USA/Canada:

USA

For DD175 only:

Contains FCC ID: XPYNINAW15
FCC Part 15, Part 15 B

For DA175 only:

FCC ID: RFD-DA175

For DD300 only:

Contains FCC ID: T7VPAN10
FCC Part 15, Part 15 B/C

For DA300 only:

FCC ID: UFW-DA300
FCC Part 15, Part 15 B/C

Canada

For DD175 only:

CAN ICES-003 B/NMB-003 B
Contains IC: 8595A-NINAW15

For DA175 only:

IC:3177A-DA175

For DD300 only:

CAN ICES-003 B/NMB-003 B
Contains IC: 216Q-PAN10

For DA300 only:

CAN ICES-003 B/NMB-003 B
IC: 8991A-DA300

Valid for all products in USA/Canada:

Changes or modifications not expressly approved by Leica Geosystems for compliance could void the user's authority to operate the equipment.

Others

The conformity for countries with other national regulations has to be approved prior to use and operation.

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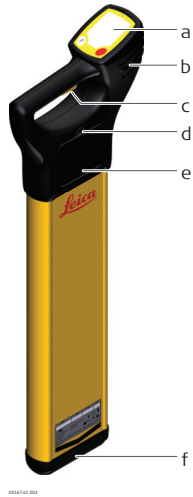
2 Instrument Components

Description of components DD120/DD130/ DD175 locators



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.

DD120/DD130/ DD175 locator keyboard

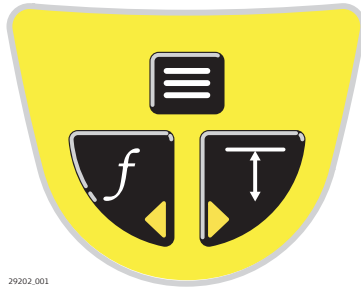
Function key
Press and release to change the search mode.

i key
Used to access the user settings and to provide a depth readout for depth locators.

Description of components DD300 locator

a Display
b Locator keyboard
c USB port
d Trigger
e Battery compartment
f Locator foot (wear part)

DD300 locator keyboard



Function key
Press and release to change the search mode.

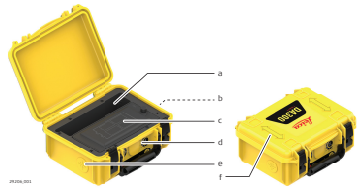
Depth Estimation key
Press and release to take a depth reading.

Menu key
Press and hold to display the Locator main menu or to return back to the locate screen.
Press and release to select a menu option.

Left navigation key
Press and release to select the previous menu option.

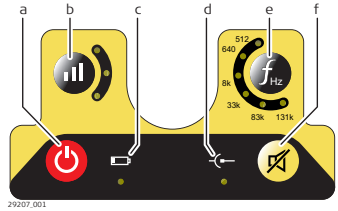
Right navigation key
Press and release to select the next menu option.

Description of transmitter components



a	Accessory compartment
b	Connection socket
c	4 × LR20 alkaline batteries compartment
d	Signal transmitter keyboard
e	Speaker
f	Induction arrow

Transmitter keyboard



a	Power key
b	Power Output key and LED indicators
c	Low Battery LED indicator
d	Connection Mode LED indicator
e	Frequency key and LED indicators
f	Mute key

Alkaline batteries

- Refer to Technical Data for information about storage temperature range.
- Protect batteries from damp and wetness. Wet or damp batteries must be dried before storing or use.
- Before storing the product for a long time, remove batteries from the product in order to avoid the danger of leakage.

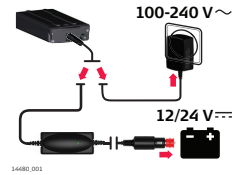
Li-Ion battery pack

The Li-Ion battery pack is delivered with an energy content as low as possible and needs to be woke up prior to use.

To wake up the Li-Ion battery pack, do the following:

1. Connect the charger plug into the charge jack on the battery pack.

2. Plug the connector into a suitable power source.



The battery pack should be fully charged before use.

Result:
The small LED next to the charge jack flashes at a fast rate to indicate the wake up process, then flashes at a slower rate to indicate that the battery pack is active and charging.

Applicable to the DD300 locators and DA Signal Transmitters.

3 Technical Data

Environmental specifications

For locator and transmitter:

Temperature

Operating temperature [°C]	Operating temperature [°F]
-20 to +50	-4 to +122

Protection against water, dust and sand

Protection		
DD120/DD130/DD175	Locator	IP54 (IEC 60529)
DD300	Locator	IP65 (IEC 60529)
DA175	Transmitter	Opened: IP65 (IEC 60529) Closed: IP67 (IEC 60529)
DA300	Transmitter	Opened: IP65 (IEC 60529) Closed: IP67 (IEC 60529)

Humidity

Protection
Max 95 % RH non condensing The effects of condensation are to be effectively counteracted by periodically drying out the instrument.

4 Care and Transport

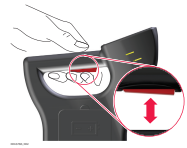
Transport in a road vehicle	Never carry the product loose in a road vehicle, as it can be affected by shock and vibration. Always carry the product in its container and secure it.
Products without container	For products for which no container is available use the original packaging or its equivalent.

5 Operation

Turning on and off the DD120/DD130/ DD175

Only at the first use to start the locator:

1. Press and hold the trigger until the word SET appears on the display.

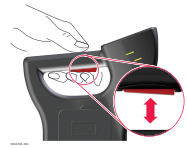


2. Then press and hold the **Function key** for five seconds.
The locator can be operated now.

Normal use:

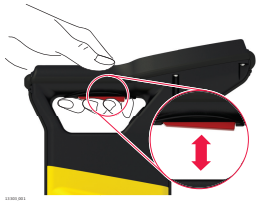
1. Press and hold the trigger to turn on and operate the locator.

2. Release the trigger to turn off the locator.



Turning on and off the DD300

Press and hold the trigger to turn on and operate the locator.
Release the trigger to turn off the locator.



Always on trigger functionality of DD300

Release trigger to turn off the locator or alternatively enable "Always on trigger" setting in the menu, refer to User Manual for full instruction.
Holding trigger to power off for three seconds until power icon is displayed on screen.

Turning on and off the transmitter

Press the Power key to turn the transmitter on or off.

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Original text

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