



Leica DSX Utility Detection Radar User Guide

[Home](#) » [Leica](#) » Leica DSX Utility Detection Radar User Guide 

Contents

- [1 Leica DSX Utility Detection Radar](#)
- [2 Important Information about your Instrument](#)
- [3 DSX Components](#)
- [4 Technical Data](#)
- [5 Care and Transport](#)
- [6 Operation](#)
- [7 Attaching and Connecting the Laptop or Tablet](#)
- [8 Inserting the Battery](#)
- [9 Switching the DSX ON/OFF](#)
- [10 EU Declaration of Conformity](#)
- [11 Documents / Resources](#)
 - [11.1 References](#)
- [12 Related Posts](#)



Leica DSX Utility Detection Radar



Important Information about your Instrument

Read and follow the User Manual before using the product or the accessories delivered with the product.

Keep for future reference!

Intended use

- Data communication with external appliances
- Carrying out measurement tasks using various GNSS measuring techniques
- Validating user-input utilities based on the processed data
- Detecting and mapping underground utilities – metallic and non-metallic
- Generating project documentation and 3D map of underground utilities

The product must not be disposed with household waste.

DSX Components



- a Cradle for CT1000 tablet
- b Extendable handle
- c Handle extension knobs
- d Upper cam levers for foldable handle
- e Wheel lock for cart brake
- f Power button for the DSX
- g Front alignment marker on the carrying handle
- h Battery compartment
- g Encoders – placed inside the rear wheels
- i Bottom cam levers for the foldable handle
- j Side alignment markers on the bottom chassis

Technical Data

Environmental specifications

- **Temperature**
 - **Operating temperature [°C]**
 - 10 to +40
 - GEB242:
 - 10 to +55
 - **Storage temperature [°C]**
 - 40 to +70
 - 40 to +70
- **Protection against water, dust and sand**

- **Protection**

IP65 (IEC 60529)

- **Humidity**

- **Protection**

Max 95% non-condensing

The effects of condensation are to be effectively counteracted by periodically drying out the instrument

Care and Transport

Transport in a road vehicle

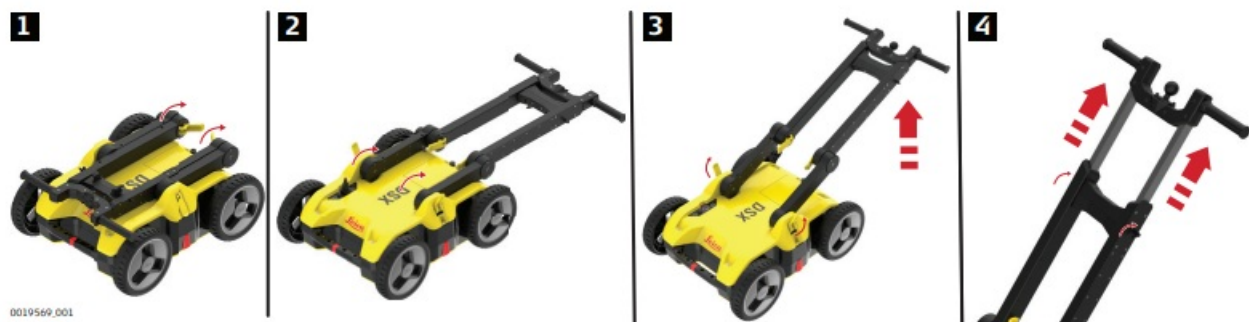
Never carry the product loose in a road vehicle, as it can be affected by shock and vibration. Always carry the product in its container and secure it. For products for which no container is available use the original packaging or its equivalent.

Shipping

When transporting the product by rail, air or sea, always use the complete original Leica Geosystems packaging, container and cardboard box, or its equivalent, to protect against shock and vibration.

Operation

Unfolding and Adjusting the Handle



1. Release inner cam levers and unfold upper handle legs .
2. Lock inner cam levers until the visual markers are aligned.
3. Release outer cam levers and raise entire handle assembly until the visual markers are aligned.
4. Loosen the knobs to extend the upper handles, and then tighten them.

Attaching and Connecting the Laptop or Tablet

The support is designed to hold a CT1000 tablet.



The support includes the tablet cradle to hold the tablet, two RAM balls (one attached to the cart handles and the other to the cradle). Also it includes a double socket arm which holds together the RAM balls.



1. Mount the two RAM balls to attach the tablet to the handle:
 - One to the handle top
 - The other to the tablet cradle
2. . Use the double socket arm to hold the two RAM balls:

Adjust the tablet cradle until optimal inclination and then tighten the screw on the double socket arm.
3. Plug in the DSX LAN cable to the tablet.



Inserting the Battery



1. To open the battery compartment, loosen the screw on the battery compartment.
2. Insert the battery facing downwards. The rough surface of the battery points towards the up-down direction.
3. Close the battery compartment and tighten the screw.

Switching the DSX ON/OFF



Press the ON/OFF key on the DSX.

EU Declaration of Conformity

Conformity to European regulations

The equipment conforms to the following requirements set by EC regulations, including subsequent modifications, and to the legislation set by the member states that implement these regulations:

2014/53/EU Radio Directive

Warning: this equipment is destined for use in industrial environments (Class A apparatus). In residential, commercial and light industry environments, this apparatus may generate radio interference: in this case, the user may be required to operate while taking appropriate countermeasures.

The apparatus is sensitive to the presence of external electromagnetic fields, which may reduce its performance.

Receiver test according to EN 302 066 v. 2.1.0

The unit has been tested according to the provision of the EN 302 066 v. 2.1.0. Specifically, for the receiver test (that tests the influence of an interferer signal to the device), the following performance criterion has been used (see ETSI TS 103 361 v.1.1.1) . Performance criterion: The difference D between the Rx signal noise (increased by an interferer) and the maximum input signal for the Rx in the linear region of operation. Level of performance: $D_{min} > 30 \text{ dB}$ We, Leica Geosystems AG, CH-9435 Heerbrugg, declare under our sole responsibility that the product Leica DSX – Ground Penetrating Radar following the provisions of Directive(s)

- 2014/53/EU Radio equipment (RED) (in accordance with annex III)
- 2011/65/EU Restriction of hazardous substances (RoHS)
to which this declaration relates, is in compliance with the following standards:
- EN 61010-1:2010
- EN 62479:2010
- EN 301 489-1 V2.2.0: 2017
- EN 301 489-33 V2.2.1: 2019
- EN 302 066 V2.1.1: 2017
- Draft EN 302 066 V2.2.0: 2019

For translations into the official EU languages please refer to: <http://www.leica-geosystems.com/ce>


900634-2.0.0en

Original text (900634-2.0.0en) Printed in Switzerland, © 2021 Leica Geosystems AG

Leica Geosystems AG

Heinrich-Wild-Strasse 9435 Heerbrugg Switzerland www.leica-geosystems.com

Documents / Resources

	Leica DSX Utility Detection Radar [pdf] User Guide DSX Utility Detection Radar, DSX, Utility Detection Radar, Detection Radar, Radar
---	---

References

- [Leica When it has to be right | Leica Geosystems](#)
- [Leica CE Conformity Declarations | Leica Geosystems](#)