

# Safety Instructions

## English

The User Manual in a separate brochure, forms a part of the Safety Instructions.



Carefully read the Safety Instructions and the User Manual before using this product.

The person responsible for the instrument must ensure that all users understand these directions and adhere to them.

## Symbols used

The symbols used in the Safety Instructions have the following meanings:



### **WARNING:**

Indicates a potentially hazardous situation or an unintended use which, if not avoided, will result in death or serious injury.



### **CAUTION:**

Indicates a potentially hazardous situation or an unintended use which, if not avoided, may result in minor injury and/or in appreciable material, financial and environmental damage.



Important paragraphs which must be adhered to in practice as they enabled the product to be used in a technically correct and efficient manner.

## Use of the instrument


### Permitted use

- Measuring distances
- Computing functions, e. g. areas and volumes
- Storing measurements (BLUETOOTH®)

### Prohibited use

- Using the instrument without instruction
- Using outside the stated limits
- Deactivation of safety systems and removal of explanatory and hazard labels
- Opening of the equipment by using tools (screwdrivers, etc.), as far as not specifically permitted for certain cases
- Carrying out modification or conversion of the product
- Use after misappropriation
- Use of accessories from other manufacturers without the express approval of Leica Geosystems.
- Deliberate or irresponsible behaviour on scaffolding, when using ladders, when measuring near machines which are running, or near parts of machines or installations which are unprotected
- Aiming directly into the sun
- Deliberate dazzling of third parties; also in the dark
- Inadequate safeguards at the surveying site (e.g. when measuring on roads, construction sites, etc.)

## Limits of use

 See section "Technical Data".


The Leica DISTO™ is designed for use in areas permanently habitable by humans, do not use the product in explosion hazardous areas or in aggressive environments.

## Areas of responsibility

Responsibilities of the manufacturer of the original equipment Leica Geosystems AG, CH-9435 Heerbrugg (for short Leica Geosystems):

Leica Geosystems is responsible for supplying the product, including the User Manual and original accessories, in a completely safe condition. (additional language versions can be found at: [www.disto.com](http://www.disto.com)).

Responsibilities of the manufacturer of non-Leica accessories:

 The manufacturers of non-Leica accessories for the Leica DISTO™ are responsible for developing, implementing and communicating safety concepts for their products. They are also responsible for the effectiveness of these safety concepts in combination with the Leica Geosystems equipment.

Responsibilities of the person in charge of the instrument:

### **WARNING**

The person responsible for the instrument must ensure that the equipment is used in accordance with the instructions. This person is also accountable for the deployment of personnel and for their training and for the safety of the equipment when in use.

The person in charge of the instrument has the following duties:

- To understand the safety instructions on the product and the instructions in the User Manual.
- To be familiar with local safety regulations relating to accident prevention.
- To inform Leica Geosystems immediately if the equipment becomes unsafe.

## Hazards in use

### **CAUTION:**

Watch out for erroneous distance measurements if the instrument is defective or if it has been dropped or has been misused or modified.

### **Precautions:**

Carry out periodic test measurements. Particularly after the instrument has been subject to abnormal use, and before, during and after important measurements.

Make sure the Leica DISTO™ optics is kept clean and that there is no mechanical damage to the bumpers.

**CAUTION:**

In using the instrument for distance measurements or for positioning moving objects (e.g. cranes, building equipment, platforms, etc.) unforeseen events may cause erroneous measurements.

**Precautions:**

Only use this product as a measuring sensor, not as a control device. Your system must be configured and operated in such a way, that in case of an erroneous measurement, malfunction of the device or power failure due to installed safety measures (e.g. safety limit switch), it is assured that no damage will occur.

**WARNING:**

Flat batteries must not be disposed of with household waste. Care for the environment and take them to the collection points provided in accordance with national or local regulations.



The product must not be disposed of with household waste.

Dispose of the product appropriately in accordance with the national regulations in force in your country.

Always prevent access to the product by unauthorized personnel.

Product specific treatment and waste management information can be downloaded from the Leica Geosystems home page at <http://www.leica-geosystems.com/treatment> or received from your Leica Geosystems dealer.

**CAUTION:**

Aiming the telescopic viewer directly at the sun or at the reflected laser beam (reflected off metallic or mirroring surfaces, prisms...) is hazardous to the eyes.

**Precautions:**

Never aim the telescopic viewer directly at the sun or at highly reflecting surfaces (metallic or mirroring surfaces, prisms.....).

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**Electromagnetic Compatibility (EMC)**

The term "electromagnetic compatibility" is taken to mean the capability of the product to function smoothly in an environment where electromagnetic radiation and electrostatic discharges are present, and without causing electromagnetic interference to other equipment.

**WARNING:**

The Leica DISTO™ conforms to the most stringent requirements of the relevant standards and regulations. Yet, the possibility of it causing interference in other devices cannot be totally excluded.

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**FCC statement (applic. in U.S.)**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in

accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

**WARNING:**

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

**Product labelling:**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Position of the product label see last page!

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## Use of the product with BLUETOOTH®:

**WARNING:**

Electromagnetic radiation can cause disturbances in other equipment, in installations (e.g. medical ones such as pacemakers or hearing aids) and in aircraft. It can also affect humans and animals.

**Precautions:**

Although this product conforms to the most stringent standards and regulations, Leica Geosystem cannot totally exclude the possibility of harm to people and animals.

- Do not use the product near petrol stations, chemical plants, in areas with a potentially explosive atmosphere and where blasting takes place.
- Do not use the product near medical equipment.
- Do not use the product in airplanes.
- Do not use the product near your body for extended periods.

**CAUTION:**

Never attempt to repair the product yourself. In case of damage, contact the local dealership.

## Laser classification

### Integrated distancemeter

The Leica DISTO™ produces a visible laser beam which emerges from the front of the instrument. It is a Class 2 laser product in accordance with:

- IEC60825-1 : 2001 "Radiation safety of laser products"
- EN60825-1 : 2001 "Radiation safety of laser products"

It is a Class II laser product in accordance with:

- FDA 21CFR Ch.I §1040 : 2004 (US Department of Health and Human Service, Code of Federal Regulations)

### Laser Class 2/ II products:

Do not stare into the laser beam or direct it towards other people unnecessarily. Eye protection is normally afforded by aversion responses including the blink reflex.



#### **WARNING:**

Looking directly into the beam with optical aids (e.g. binoculars, telescopes) can be hazardous.

### Precautions:

Do not look directly into the beam with optical aids.



#### **CAUTION:**

Looking into the laser beam may be hazardous to the eyes.

### Precautions:

Do not look into the laser beam. Make sure the laser is aimed above or below eye level. (particularly with fixed installations, in machines, etc.)

### Integrated positioning bracket sensor Leica DISTO™ A5

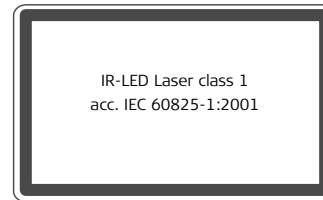
The integrated positioning bracket sensor produces an invisible infrared beam, which does not leak from the housing under general conditions.

It is a Class 1 laser product in accordance with:

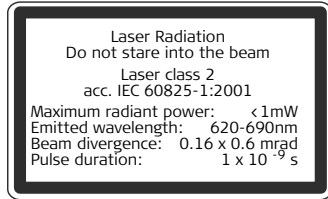
- IEC60825-1 : 2001 "Radiation safety of laser products"
- EN60825-1 : 2001 "Radiation safety of laser products"

### Class 1 / I laser products

Class 1 laser products are defined as safe in normal operations under reasonably foreseeable conditions, including direct viewing of the laser beam with optics that could concentrate the laser output into the eye.



## Labelling



Position of the product label see last page!