Leica RTC360/RTC360 LT





Quick Guide Version 3.0 English





Data communication with external appliances

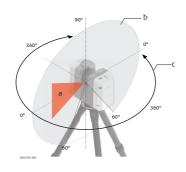
Laser products

The RTC360/RTC360 LT instrument contains the following laser product:

Laser product	Laser class
EDM (Electronic Distance Measurement) module	Class 1

The classification is in accordance with IEC 60825-1 (2014-05).

Locations of laser apertures



- a Laser beam
- b Vertical laser scanning area
- c Horizontal laser scanning area

For the AC/DC power supply and the battery charger:



Unauthorised opening of the product

Either of the following actions may cause you to receive an electric shock:

- Touching live components
- Using the product after incorrect attempts were made to carry out repairs.

Precautions:

- Do not open the product!
- Only authorised Leica Geosystems Service Centres are entitled to repair these products.

For the AC power supply:



If unit is not connected to ground, death or serious injury can occur.

Precautions:

▶ To avoid electric shock power cable and power outlet must be grounded.







Electric shock due to use under wet and severe conditions

If unit becomes wet, it may cause you to receive an electric shock.

Precautions:

- If the product becomes humid, it must not be used!
- Use the product only in dry environments, for example in buildings or vehicles.



Protect the product against humidity.

1.1 Conformity to National Regulations

EU

((

Hereby, Leica Geosystems AG declares that the products GEB364 and GKL341 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.

EU



Hereby, Leica Geosystems AG declares that the radio equipment type RTC360/RTC360 LT 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.

USA

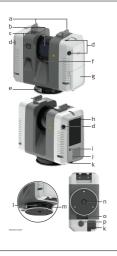
FCC ID: N6C-SXPCEAN2 FCC Part 15 B/C

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

_	8	Important Information about your Instrument
Canada		CAN ICES-003 Class B/NMB-003 Class B IC: 4608A-SPCEAN2
Japan		 This device is granted pursuant to the Japanese Radio Law (電波法). This device should not be modified (otherwise the granted designation number will become invalid).
Others		The conformity for countries with other national regulations has to be approved prior to use and operation.

Instrument Components

Instrument components



- a Antennas
- b Rotating mirror/laser aperture
- c HDR cameras
- d Cameras for visual inertial system
 - (RTC360 only)
- e Quick release
- LED indicator
- g Battery compartment
- h Touch screen
- On/Off button
- Ventilation slots
- C USB slot
- I Socket for power supply, 5 pin female
- m Ethernet socket, 8 pin female
- n Quick release mount
- o Ventilation slots
- p Loudspeaker

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Technical Data

Environmental specifications

Temperature

Туре	Operating temperature [°C]	Storage temperature [°C]
RTC360/RTC360 LT	-5 to +40	-40 to +70

(B)

Extended low temperature operation is possible down to $-10\,^{\circ}$ C if internal temperature is at or above $-5\,^{\circ}$ C when powered on. When the device is operated in the extended low temperature range, redundant measurements and plausibility checks are recommended to verify the measurement results.

B.

Internal temperature can be checked in the **System Information** screen on the device. Refer to the user manual.

GEB364 battery	Charging: 0°C to +50°C Discharging: –20°C to +60°C	-40 to +70
GEV282 AC/DC power supply	0 °C to +40 °C	-10 to +80

Protection against water, dust and sand

Туре	IP class
RTC360/RTC360 LT	IP54 (IEC 60529), upright ±15°/upside down ±15° Dust protected Protection against splashing water from any direction IP51 (IEC60529), in any other position Dust protected Protection against dripping water
GEB364 battery	IP54 (IEC 60529) Dust protected Protection against splashing water from any direction
GEV282 AC/DC power supply	Only operate in dry environments, for example in buildings and vehicles.

Pollution degree

Туре	Pollution degree
RTC360/RTC360 LT/ GEB364 battery	4 - Electrical equipment for indoor and outdoor use.
GEV282/GKL341	2 - Electrical equipment for office environment.

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Humidity

Гуре		Protection	
			ī

RTC360/RTC360 LT/ Max 95% non-condensing. GEB364 battery

Altitude

Туре	Range
RTC360/RTC360 LT/ GEB364/GKL341	Unrestricted
GEV282	0-2000 m

Sound level

Туре	Value
RTC360/RTC360 LT	< 70 db(A)

4 Care and Transport

Transport in the field

When transporting the equipment in the field, always make sure that you:

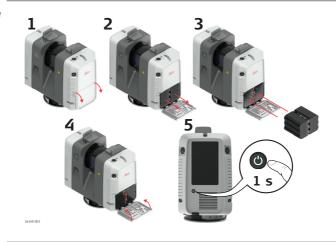
- · either carry the product in its original container,
- or in the backpack,
- or carry the tripod with its legs splayed across your shoulder, keeping the attached product upright.

Operation



The battery must be charged before using it for the first time.

Insert and remove the exchangeable battery



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EU Declaration of Conformity

EU Declaration of Conformity



This corresponds to EN ISO/ IEC 17050-1 We, Leica Geosystems AG, CH-9435 Heerbrugg (Switzerland), declare under our sole responsibility that the product(s) 3D Laser Scanner

- Leica RTC360
- Leica RTC360 LT

following the provision of Directive(s)

- 2014/53/EU Radio equipment (RED) (in accordance with annex III)
- 2006/42/EC Machinery (MD)
- 2011/65/EU Restriction of hazardous substances (RoHS) (incl. delegated directive 2015/863 amending Annex II to Directive 2011/65/EU)

to which this declaration relates, are in compliance with the following standards:

- ETSI EN 300 328 V2.2.2
- ETSI EN 301 489-1 V2.2.3
- ETSI EN 301 489-17 V3.2.4 ETSI EN 301 489-19 V2.1.1
- ETSI EN 303 413 V1.1.1
- EISI EN 303 413 VI.I.

EN 60825-1:2014

EN 61010-1:2010/A1:2019
 EN 61326-1:2013

EN 62311:2008

• EN 02311:20

Leica Geosystems AG

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