



Quick Guide

English

Version 1.0

GeoMax Zone75 DG

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Important Information about your Instrument



Read and follow the User Manual on the accompanying data storage device before using the product.



Keep for future reference!



To ensure safety when using accompanying battery charger, also observe the directions and instructions contained in the User Manual of the battery charger.

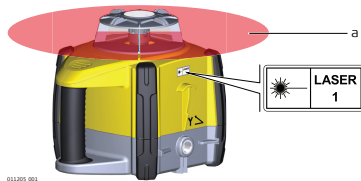
Intended use

- The product casts a horizontal laser plane or a laser beam for the purpose of alignment.
- The laser beam can be detected by means of a laser detector.
- Remote control of product.
- Data communication with external appliances.

Laser products

Laser product	Laser class	Classification
Zone75 DG	Class 1	IEC 60825-1 (2014-05)

Locations of laser apertures



a Laser beam



The product must not be disposed with household waste.

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

 WARNING

Electric shock due to missing ground connection

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

Precautions:

- ▶ The power cable and power outlet must be grounded!



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

WARNING

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.

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



WARNING

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 GeoMax authorised service centres are entitled to repair these products.

Labelling Zone75 DG



24460, D01

**Labelling
receiver**

ZRP105:

**Model: ZRP105**

Art.No.: 835247

Power: 3V $\approx$ / 60mA

Made in China

Manufactured: MM/YYYY

S.No.: 1234567

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.

**GEOMAX**GeoMax AG
CH-9443 Widnau

011177_002

Labelling receiver

ZRD105:



11243_003

Type: ZRD105

Art.No.: 835248

Power: 3V / 60mA

Made in China

Manufactured: MM/YYYY

S.No.: 1234567

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.



GEOMAX
GeoMax AG
CH-9443 Widnau



**Labelling
receiver**

ZRD105B:



14299_003

Type: ZRD105B

Art.No.: 855671

Power: 3V $\approx$ / 180mA

Made in China

Manufactured:

S.No.: YWYRENNNNN

Contains FCC ID: RFD-CT301 IC ID: 3177A-CT301

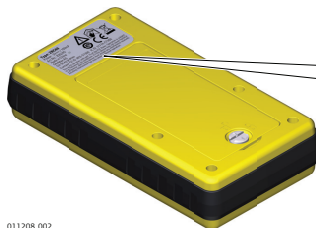
This device complies with part 15 of the FCC Rules.

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.

**GEOMAX**GeoMax AG
CH-9443 Widnau**Labelling ZRC60**

ZRC60:



011208_002

Type: ZRC60

Power : 3V $\approx$ / 180mA

Art.No.: 835245

Made in China

GeoMax AG

CH-9443 Widnau

Contains FCC ID: RFD-CT301 IC ID: 3177A-CT301

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.



EU



Hereby, GeoMax AG declares that the radio equipment type Zone 75 DG, ZRD105B, ZRC60 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: <https://geomax-positioning.com/partner-area>.

For ZRP105, ZRD105, battery and AC/DC power supply

EU

Hereby, GeoMax 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:
<https://geomax-positioning.com/partner-area>.

USA

Contains FCC ID: RFD-CT301
FCC Part 15

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

Canada

CAN ICES-003 A/NMB-003 A
Contains IC: 3177A-CT301

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Instrument Components

Laser components



24461_001

- a Plate for optional scope
- b Carry handle
- c LCD display
- d Control panel
- e Battery compartment
- f Charge LED

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Technical Data

Environmental specifications

Temperature range:

Type	Operating temperature [°C]	Storage temperature [°C]
Zone75 DG ZRP105 ZRD105 ZRD105B	-20 to +50	-40 to +70
ZRC60	-20 to +50	-20 to +70
Battery	Charging: 0 to +40 Discharging: -20 to +55 Discharging: -20 to +55	0 to +30
AC/DC power supply	0 to +40	-10 to +80

Protection against water, dust and sand:

Type	Protection
Zone75 DG ZRP105 ZRD105 ZRD105B	IP67 (IEC 60529) Dust tight Waterproof to 1 m temporary immersion.
ZRC60	IP65 (IEC 60529) Dust tight Protected against low pressure water jets from any direction. Limited ingress permitted.
Battery	IP54 (IEC 60529) Dust protected Protection against splashing water from any direction.
AC/DC power supply	Only operate in dry environments, for example in buildings and vehicles.

Humidity:

Type	Protection
Zone75 DG ZRP105 ZRD105 ZRD105B ZRC60	Max 95 % non condensing
Battery	Max 95 % non condensing
AC/DC power supply	Max 90 % non condensing

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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 carry the tripod with its legs splayed across your shoulder, keeping the attached product upright.

Field adjustment

Exposing the product to high mechanical forces, for example through frequent transport or rough handling, or storing the product for a long time may cause deviations and a decrease in the measurement accuracy. Periodically carry out test measurements and perform the field adjustments indicated in the User Manual before using the product.

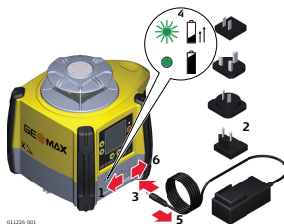
5 Operation



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

Charging the Li-Ion battery pack step-by-step

The rechargeable Li-Ion battery pack on the Zone75 DG can be charged without removing the battery pack from the laser.



1. Slide the locking mechanism on the battery compartment to the centre position to expose the charge jack.
 2. Plug the AC connector into the appropriate AC power source.
 3. Connect the charger plug into the charge jack on the Zone75 DG battery pack.
 4. The small LED next to the charge jack flashes indicating that the Zone75 DG is charging. The LED is on solid when the battery pack is fully charged.
 5. When the battery pack is fully charged, disconnect the charger plug from the charge jack.
 6. Slide the locking mechanism to the left position to prevent dirt from getting into the charging jack.
-  The battery pack reaches a full charge in approximately 5 hours if completely empty. A one-hour charge should allow the Zone75 DG to run for a full 8 hours.

Turn on and off

Press the Power button to turn the Zone75 DG on or off.

After turning on:

- The LCD display turns on and displays the current status of the Zone75 DG.
- If set up within the $\pm 6^\circ$ self-levelling range (horizontal or vertical), the Zone75 DG automatically levels to create an accurate horizontal plane of laser light.
- Once levelled, the head starts rotating and the Zone75 DG is ready for use.
- The H.I.Alert system becomes active 30 seconds after completing the self-levelling. The H.I.Alert system protects the Zone75 DG against changes in elevation caused by any movement or settling of the tripod.
- The self-levelling system and the H.I.Alert function continue to monitor the position of the laser beam to ensure consistent and accurate work.



The H.I.Alert function turns on automatically every time the Zone75 DG is turned on.

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EU Declaration of Conformity

EU Declaration of Conformity



This corresponds
to EN ISO/IEC
17050-1



We, **GeoMax AG**, Espenstrasse 135, CH-9443Widnau, declare under our sole responsibility that the product(s) **Zone75 DG**, following the provision of Directive(s)

- **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)
- **2014/53/EU Radio equipment (RED)** (in accordance with annex II)

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

- **EN 61000-6-2:2005**
- **EN 61326-1:2021**
- **EN 62479:2010**
- **ETSI EN 300 328 V2.2.2**

- **ETSI EN 301 489-1 V2.2.3**
 - **ETSI EN 301 489-17 V3.2.4**
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GeoMax AG

Espenstrasse 135
9443 Widnau
Switzerland

geomax-positioning.com



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