

Remote Controller for RL-VH3 Series

RC-30

Foreword

Thank you for purchasing the TOPCON Remote controller RC-30. For the best performance of the instruments, please read these instructions carefully and keep them in a convenient location for future reference.

Handling Precautions

Vibration and Impact Protection
when transporting the instrument, provide protection to minimize risk of severe vibration or impact.

Display for Safe Use

In order to encourage the safe use of products and prevent any danger to the operator and others or damage to properties, important warnings are put on the products and inserted in the instruction manuals. We suggest that everyone understand the meaning of the following displays and icons before reading the "Safety Cautions" and text.

Display	Meaning
 WARNING	Ignoring or disregard of this display may lead to death or serious injury.
 CAUTION	Ignoring or disregard of this display may lead to personal injury or physical damage to the instrument.

- 1) Injury refers to hurt, burn, electric shock, etc.
- 2) Physical damage refers to extensive damage to buildings or equipment and furniture.

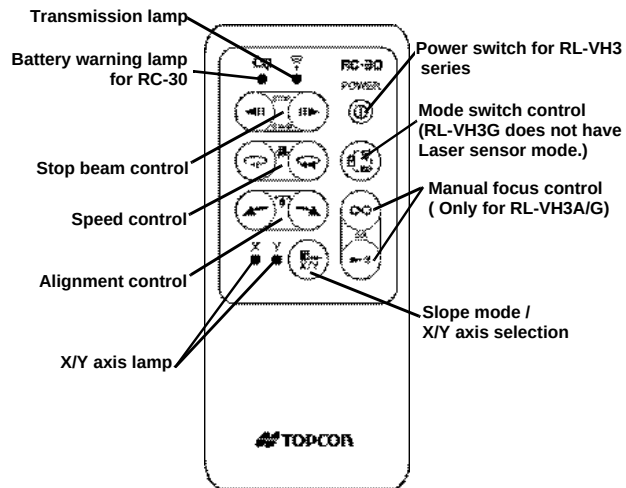
Safety Cautions

 WARNING
• There is a risk of fire, electric shock or physical harm if you attempt to disassemble or repair the instrument yourself. This is only to be carried out by TOPCON or an authorized dealer, only! • Risk of fire or electric shock. Do not use a wet battery or charger. • May ignite explosively. Never use an instrument near flammable gas, liquid matter, and do not use in a coal mine. • Battery can cause explosion or injury. Do not dispose in fire or heat. • The short circuit of a battery can cause a fire. Do not short circuit battery when storing it.
 CAUTION
Do not allow skin or clothing to come into contact with acid from the batteries, if this does occur then wash off with copious amounts of water and seek medical advice.

Specifications

Power source	Three "AA" cell batteries DC4.5V
Operating time	Alkaline manganese dry batteries Approx. 40 hours (+20°C)
Operating temperature	-20°C to +50°C (-4°F to +122°F)
Dimensions	157(L) x 64(W) x 34(H) mm (6.2 (L) x 2.5 (W) x 1.3(H)) in
Weight	0.24kg (0.05 lbs)

Nomenclature



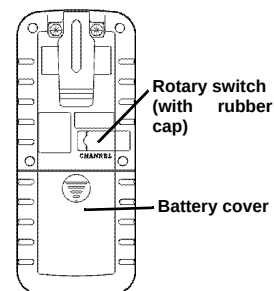
Key Functions

Transmission lamp	Sends operation to the instrument. If the channel is not equal to the channel set at RL-VH3 side, the red lamp will light.
Battery warning lamp for RC-30	Battery warning for RC-30. Replace the battery to new ones.
Stop beam control	Sets Stop beam mode and moves the laser.
Speed control	The rotation speed of the rotary head can be changed.
Alignment control	Setting slope for horizontal rotation. Alignment of the line for vertical rotation.
X/Y axis lamp	An axis selected turns on.
Power switch for RL-VH3 series	On/Off of the RL-VH3series by pressing this key for more than three seconds. (Sleep mode on/off)
Mode switch control	Laser mode is switched alternately as follows. Scan mode / Laser sensor mode / Laser pointing mode. If this key is pressed in other modes except Scan, Laser sensor and Laser pointing modes, the mode will change to scan mode. If this key is pressed in manual focus mode, manual focus will be cancelled.
Manual focus control	Laser beam can be focused manually. (Only for RL-VH3A/G)
X/Y axis selection	Sets slope mode by pressing for more than three seconds. Select X or Y axis for manual grading. To cancel the slope mode press this key for more than three seconds.

How to Set Communication Channel

The same communication channel must be assigned to both RC-30 and the RL-VH3 series.

Remove the rubber cap and turn the rotary switch to set a channel.



How Replace the RC-30 Batteries

- 1 Remove the battery cover from the back of the RC-30 by pressing on the cover and sliding it in the direction of the arrow.
- 2 Remove the old batteries and replace with new three "AA" cell alkaline batteries making sure each is placed in the proper direction as indicated.
- 3 Replace the battery cover. You will hear a click when it snaps in place.

Note	• Replace all 3 batteries with new ones. • Do not mix old batteries and new ones.
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