

RC-30 Remote Control for RL-VH3 series lasers

Foreword

Thank you for purchasing the TOPCON RC-30 Remote Control. 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
<ul style="list-style-type: none"> • 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. 3 month (+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)

FCC WARNING

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

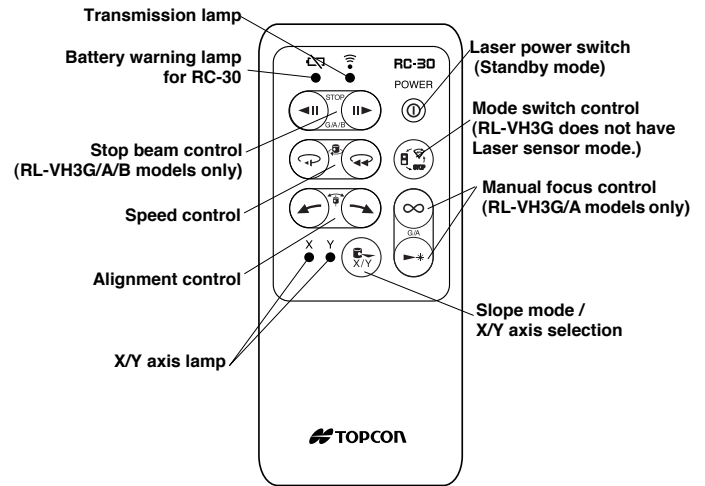
Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes : (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la class B est conforme à la norme NMB-003 du Canada.

Functions

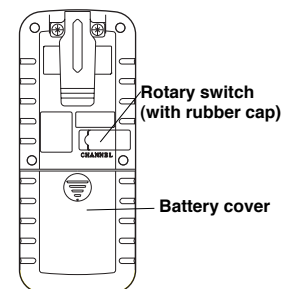


Function Descriptions

Laser power switch (Standby mode)	Pressing for more than three seconds turns laser standby mode on or off. Laser turns off if standby mode continues for two hours.
Transmission lamp	This lamp will light when a key of RC-30 is pressed.
Battery warning lamp for RC-30	Battery warning for RC-30. Replace the batteries with new ones when lit.
Stop beam control	Sets Stop Beam mode and moves the laser. (RL-VH3G/A/B models only)
Speed control	The rotation speed of the rotary head can be changed.
Alignment control	Moves beam up or down (horizontal rotation). Moves beam right or left (vertical rotation).
X/Y axis lamp	Indicates axis selected during beam sloping.
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. (RL-VH3G/A models only)
Manual focus control	Laser beam can be focused manually. (RL-VH3G/A models only)
X/Y axis selection Vertical: Setting alignment control	Sets alignment control mode by pressing the key for more than three seconds. Then X axis lamp will light.
Horizontal: Setting slope	Sets slope mode by pressing the key for more than three seconds. Then X lamp will light. Select X or Y axis for manual grading. To cancel the slope or alignment control mode press this key for more than three seconds.

How to Set Communication Channel

The same communication channel must be assigned to both the RC-30 and the RL-VH3 series laser instrument. Remove the rubber cap and turn the rotary switch to set a channel. Refer to your RL-VH3 laser operating manual for instructions on setting the same communications channel on the laser instrument.



How to 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.