SPECTRA PRECISION HV1305G Horizontal Vertical Automatic Laser Level Instruction Manual

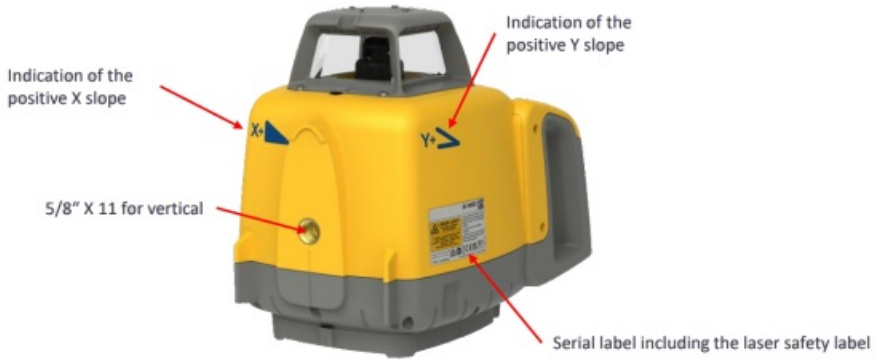
HV1305(G)C
Horizontal / Vertical Laser
Hands-on

Contents

HV1305(G)C Controls

HV1305(G)C Peripherals

HV1305(G)C Peripherals



HV1305(G)C Installing the batteries

RC1402 Remote Control

RC1402 Remote Control

Powering the RC1402

1. Open the battery door using a coin or similar pry device to release the battery door tab on the RC1402N.
2. Insert two AA batteries noting the plus (+) and minus (-) diagrams inside the battery housing.
3. Close the battery door. Push down until it „clicks“ into the locked position.

Turning On the RC1402
Press the Power button to turn on the radio remote control.
Using the RC1402 the HV1305GC and HV1305C provide more features that are not available via the laser only.
Turning Off the RC1402
Press and hold the Power button for two seconds.
The RC1402 is backwards compatible with the products HV302 and HV302G

RC1402 pairing with the laser

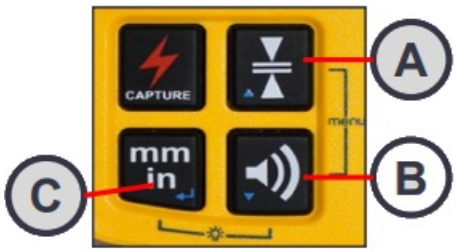
Option 1:

1. Make sure both the laser and the remote control are turned off.
2. Start with the laser: Press and hold the manual button and turn on the laser pressing the power button. Result: the laser battery LED flashes fast.
3. Continue with the remote control: Within six seconds press and hold the manual button and turn on the remote control pressing the power button.
4. The RC1402 display show „Pairing OK“ for one second. Finally the RC1402 shows the laser information to indicate the laser has been machted with the remote control.

Option 2:
Bring the laser into pairing mode using the Menu

1. Press the M button.
2. Scroll to Settings, press the E button.
3. Scroll to Pairing, press the E button.
4. Scroll to Radio, press the E button. Result: the laser is in pairing mode.
5. Do step 3 from option 1.
6. The RC1402 display show „Pairing OK“ for one second. Finally the RC1402 shows the laser information to indicate the laser has been machted with the remote control.

HL760 pairing with the laser

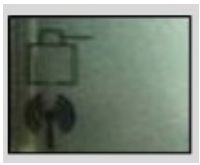


Start with bringing the HL760 into pairing mode.

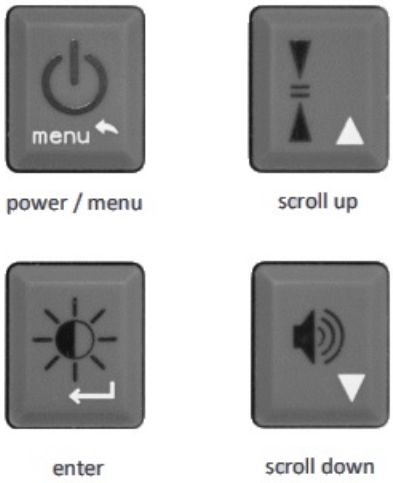
1. Turn on the HL760.
2. Press and hold the (A) and (B) buttons for two seconds simultaneously.
3. The display shows MENU first, then RDIO.
4. Press the (C) button to display the radio mode:

5. Check if MODE LS is shown to connect the HL760 with a laser (LS).
6. If yes, proceed with step 10.
7. If no, press (C) button. Result: the current mode (HL or OF) flashes.
8. Press (A) or (B) button until MODE LS is blinking.
9. Press (C) button to enter MODE LS. Result: MODE LS stops blinking.

10. Press (B) button. Result: Shows „PAIR“.
11. Press (C) button again. Result: Shows „PAIR“ and a rotating bar.
    Switch to laser.
12. Make sure laser is turned off.
13. Press and hold (manual button) and press (power button). Result: Battery LED flashes fast.
14. „PAIR OK“ will be displayed. The laser turns back to the standard display.
15. Press (HL760 power button) twice to show the receiver standard display.
16. Result: the receiver display shows the laser and antennna symbol to confirm the radio connection:



CR700 pairing with the laser

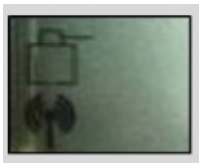


Start with bringing the CR700 into pairing mode

1. Press (power button) to turn on the CR700
2. Press (menu button).
3. Scroll down to „RDIO“ to display the radio mode:

4. Check if RDIO LS is shown to connect the CR700 with a laser (LS).
5. If yes , proceed with step 10
6. If no, press (enter button). Result: the current RDIO (HL or OF) flashes.
7. Press or button until RDIO LS is blinking.
8. Press (enter button) to enter RDIO LS. Result: RDIO LS stops blinking.
9. Scroll down to „PAIR“.
10. Press (enter button) again. Result: Shows „PAIR“ and a rotating bar.
    Switch to laser

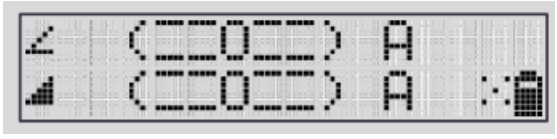
11. Make sure laser is turned off.
12. Press and hold (manual button) and press (power button). Result: Battery LED flashes fast.
13. „PAIR OK“ will be displayed. The laser turns back to the standard display.
14. Press (CR700 menu button) once to show the receiver standard display.
15. Result: the receiver display shows the laser and antennna symbol to confirm the radio connection:



Turn on the laser

To turn the laser on, press the power button for two seconds.
The laser always powers on in automatic self leveling mode.
All LEDs are turned on for two seconds.
On the RC1402 remote control:
The LCD shows „Initialisation“ and for one second the software revision.

The LCD shows the mask mode and for a few seconds the battery status.



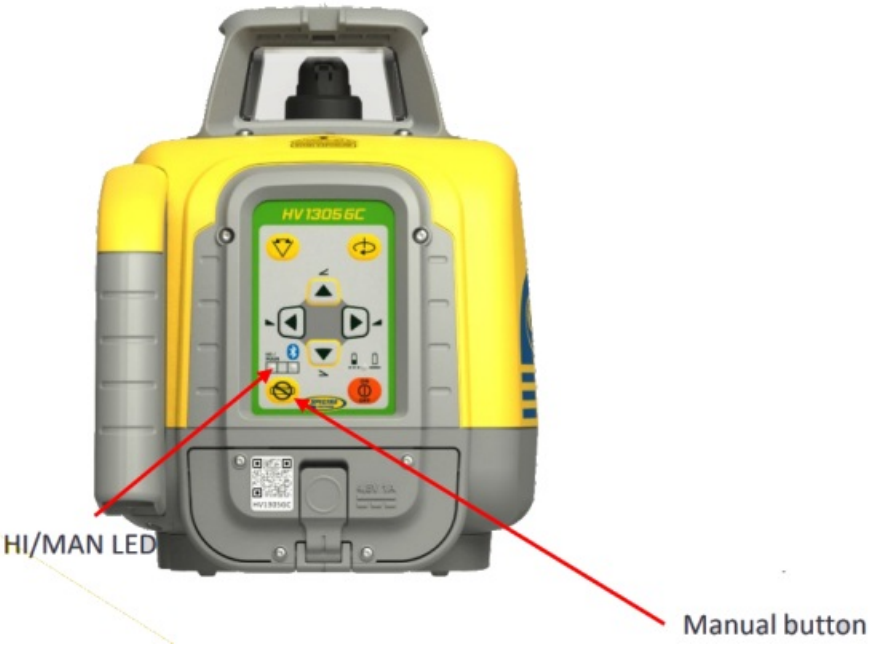
Turn on the laser

Status LED flashes during self-leveling once a second.
When leveled, the status LED lights solid for the first five minutes or 30 seconds (depends on shock warning settings), then flashes every four seconds indicating the laser remains leveled and Shock warning (HI-alert) has been activated.
Using the RC1402 remote control, pressing and holding the E button shows the current rotation speed, the internal product temperature and battery status.

Turn off the laser

Press and hold the Power button for two seconds turns off the laser.

Standby mode



Standby mode helps to increase the battery life but still controls the laser set up during breaks. The self-leveling and rotation will be stopped and the laser beam will be turned off while the shock warning (HI-alert) is still active. Press and hold the manual button at the laser or remote control for three seconds to activate the standby mode. The HI/MAN LED at the laser flashes red every five seconds while the display (on the RC1402 remote control) shows „Standby“.

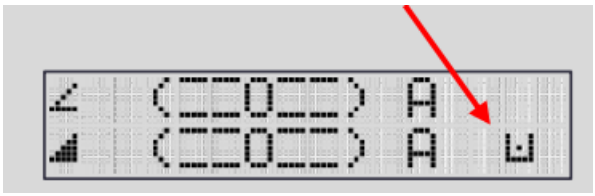
Press and hold the manual button for three seconds to deactivate standby mode and restore full operations of the laser.

Manual mode

Manual mode bypasses the laser‘s automatic leveling to use the laser in slope mode in horizontal as well as in vertical set up.
Press and release the manual button at the laser or the remote control.
Result: the MAN LED will flash red once a second.
Horizontal: slope the laser beam using the arrow buttons at the laser or the remote control.
Vertical: the up/down arrow buttons adjust the vertical slope. The left/right arrow buttonscan be used for the line adjustment to the left and right.
To resume the automatic self-leveling mode, press the manual button three times.

Mask mode

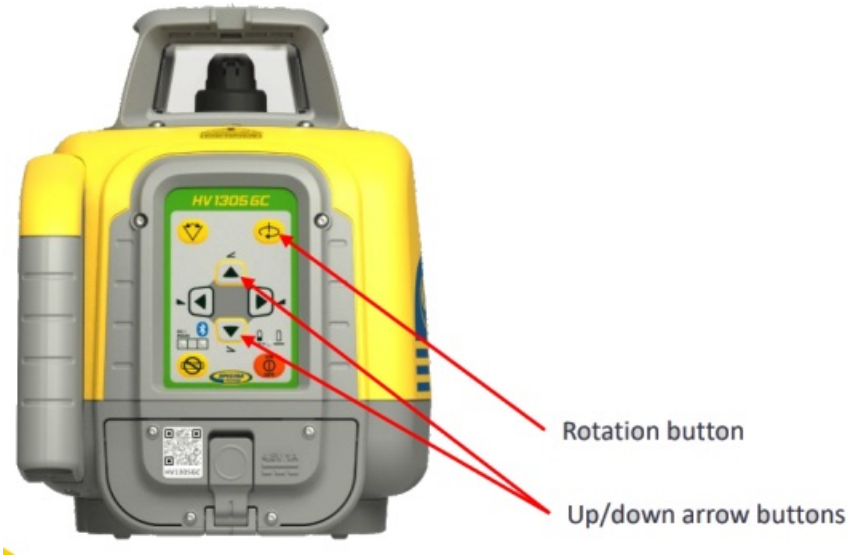
Mask mode allows you to electronically turn off the laser beam in up to three ligsections to prevent interference with other receivers or reflecting surfaces on theAt the laser or remote control press up/down arrow button and within one secothe manual button to mask the + or – Y axis.
At the laser or remote control press left/right arrow button and within one seco the manual button to mask the + or – X axis.
The display on the RC1402 remote control indicates which section of the laser haturned off.



Note: The laser always powers on with the mask mode deactivated.

Rotation speed

Repeatedly pressing the rotaton button on the laser or the RC1402 remote control toggles through 0, 10, 100, 200, 300 and 600 rpm regardless if the unit is in automatic or manual mode.
Using the up/down arrow buttons, the rotation speed can be increased by increments of 10 starting with 100 rpm.

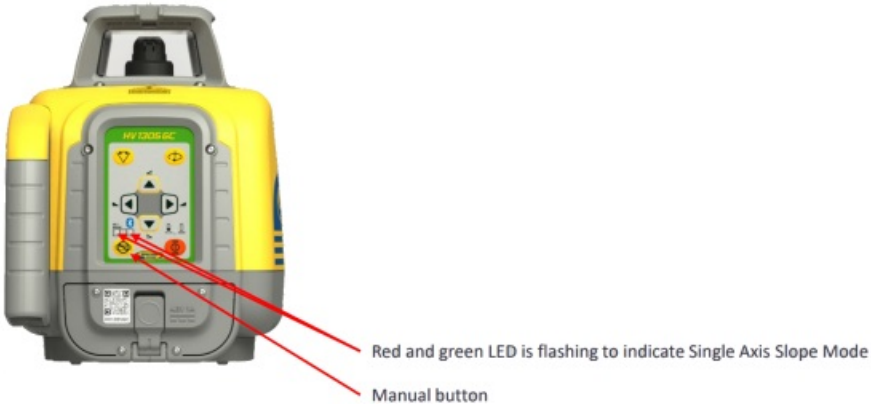


Scan Mode

Press and release the scan button on the laser or the RC1402 remote control to toggle between the different scan sizes.
Right/left arrow buttons moves the scan line clockwise or counterclockwise.
When working in horizontal automatic mode, pressing and holding the up/down arrow buttons increase or decrease the line size in 5° increments.
Note: when in vertical setup, pressing and holding the up/down arrow buttons move the line scan clockwise or counterclockwise.

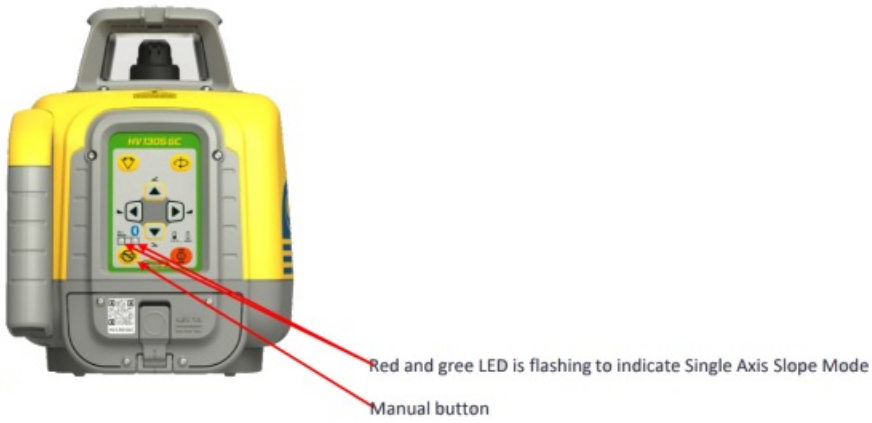
Single Axis Slope Mode

Starting at the automatic leveling status, press the manual button twice to activate the Y axis single axis slope mode or three times to activate the X axis slope mode.
The Y axis slope mode is indicated by the simultaneously slashing red and green LEDs once every second.
In the X axis single slope mode these LEDs flash every three seonds.
When the Y axis is in Single Axis Slope Mode, use the up and down arrow buttons to slope the Y axis while the X axis remains in self-leveling mode.
When the X axis is in Single Axis Slope Mode use the left and right arrow buttons to slope the X axis while the Y axis remains in self-leveling mode.



PlaneMatch = Single Axis Slope

PlaneMatch requires RC1402 and HL760 or CR700 receiver that is paired with the laser.
Press M button on the remote control. Using the up and down arrow buttons scroll to >>PlaneMatch<<. Press E button to enter the sub menu. Press E button to confirm the PlaneMatch for the Y axis. When PlaneMatch has been completed, the HL760/CR700 goe back to the standard elevation display. The laser shows it status by simultaneously flashing rad and green LEDs once a second.
Note: The Y axis is in manual mode and the X axis is in automatic mode.
Exiting PlaneMatch can be done by pressing the Manual button twice where the unit always goes back to automatic mode.



Documents / Resources

	SPECTRA PRECISION HV1305G Horizontal Vertical Automatic Laser Level [pdf] Instruction Manual HV1305C, HV1305G, HV1305G Horizontal Vertical Automatic Laser Level Horizontal Vertical Automatic Laser Level, Vertical Automatic Laser Level, Automatic Laser Level, Laser Level

References

- **User Manual**