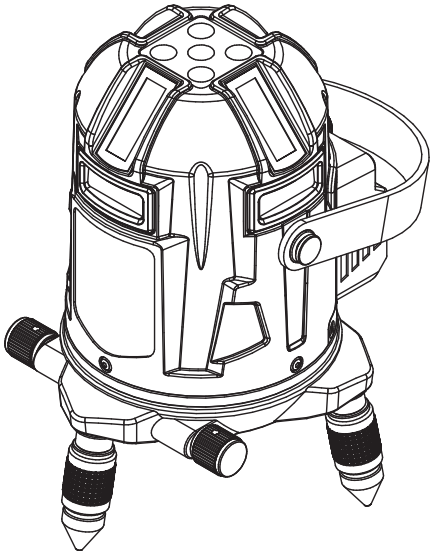
USER MANUAL

039.80R MULTICROSS 8 HIGH PRECISION RED
039.80G MULTICROSS 8 HIGH PRECISION GREEN
040.08 MULTICROSS 8 HIGH PRECISION SINGLE DOT RED
040.08G MULTICROSS 8 HIGH PRECISION SINGLE DOT GREEN



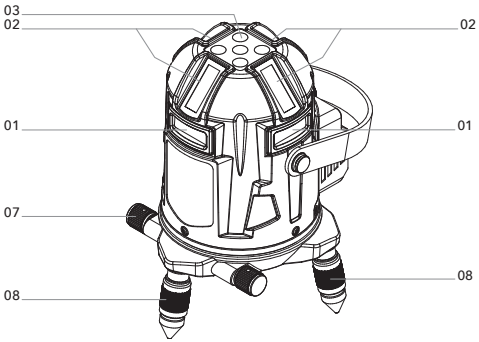
EN ENGLISH

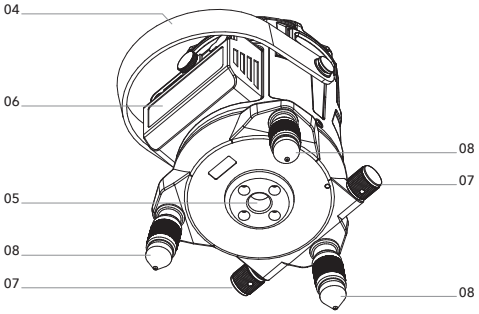
Manual
in your language?

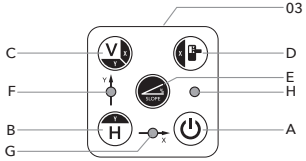
Check the back cover

FUTECH
futech-tools.com

OVERVIEW







HOUSING

01 Horizontal laser line
02 Vertical laser line
03 Keypad
04 Belt
05 5/8" Tripod thread / downpoint
06 Li-ion battery
07 Fine adjustment
08 Adjustable foot

KEYPAD

A Power button
B H-button for horizontal lines
C V-button for vertical lines
D Receiver buttons
E Slope button
F Indicator LED Y-axis
G Indicator LED X-axis
H Slope indicator LED

QUICK START GUIDE

KEYPAD	NAME	FUNCTION	
A	Power button	Press	Switch the device ON/OFF
B	H-button for horizontal lines	Press	(AUTO LEVELLING MODE) (De)activate extra horizontal laser lines (SLOPE MODE) Change to Y-axis
		Hold	(SLOPE MODE) Y-axis rises on the side pointed by the arrow of the Y-axis.
C	V-button for vertical lines	Press	(AUTO LEVELLING MODE) (De)activate extra vertical laser lines
		Hold	(SLOPE MODE - Y-AXIS SELECTED) Y-axis descends on the side pointed by the arrow of the Y-axis. (SLOPE MODE - X-AXIS SELECTED) X-axis rises on the side pointed by the arrow of the X-axis.
D	Receiver button	Press	(AUTO LEVELLING MODE) (De)activate the receiver mode (SLOPE MODE) Change to Y-axis
		Hold	(SLOPE MODE) X-axis descends on the side pointed by the arrow of the X-axis.
E	Slope button	Press	(De)activate the slope modus
F	Indicator LED Y-axis	No	(SLOPE MODE) Y-axis is not selected to set slope
		Green, continuous	Laser is levelled
		Green, flashing	(AUTO LEVELLING MODE) Laser is levelling (SLOPE MODE) Y-axis is selected to set slope

KEYPAD	NAME	FUNCTION	
G	Indicator LED X-axis	No	(AUTO LEVELLING MODE) Receiver mode inactive. No detection possible. (SLOPE MODE) X-axis is not selected
		Green, continuous	(AUTO LEVELLING MODE) Receiver mode is active. Detection with laser receiver is possible
		Green, flashing	(SLOPE MODE) X-axis is selected to set slope
H	Slope indicator	No	Auto levelling is active
		Red, continuous	Slope mode is active. **The device is no longer levelled.**

SAFETY

Please read the safety instructions is provided in the separate booklet provided with the device.

040.08, 040.08G:

LASER RADIATION – Class 3R Laser product.
Avoid direct eye exposure

039.80R, 039.80G:

LASER RADIATION – Class 2 Laser product.
Do not stare into beam

FIRST TIME USAGE

Remove all protection foils.

Place the provided LI-ION battery place the battery in the appropriate place **[06]**. Make sure the battery is fully charged. The four LEDs of the battery indicator light up green.

BATTERY AND CHARGER

The supplied li-ion battery (7.4V, 2600 mAh - art. no.: H60023) should be screwed on the designated place of the device.

To check the battery level, press the small power button on the battery to see the power indicators (4 LEDS).

· 4 LEDS lights: > 75% power
· 3 LEDS lights: > 50% power
· 2 LEDS lights: > 25% power
· 1 LED lights: < 25% power

To charge this battery, you can use the provided 8.4V - 1.0A charger for charging (art.nr: H60019).

In order to avoid all risks, only use the charger and battery provided with the laser instrument. You can charge the battery during the usage of the instrument.

DO NOT LEAVE A CHARGING BATTERY UNATTENDED.

FUNCTIONS

■ AUTO-LEVELLING

The Multicross 8 High Precision (Single Dot) automatically levels itself after turning on the device. The laser can level itself within an operating angle of approx. 3,5°. The auto-levelling system performs the necessary fine adjustments, with the help of electronic measuring sensors, one for each axis.

■ SLOPE

There are 2 different manners of using the slope function of the Multicross 8 High Precision (Single Dot): manual and electronic.

■ LASER DOTS

ONLY ON **SINGLE DOT** VERSIONS: 040.08 & 040.08G

The laserdots, one exactly in the center each laser line, increases the visibility of the laserbeam for the human eye.

Because the point is placed exactly centrally on the line, the point of the horizontal lines coincides perfectly with the intersection of the vertical lines. This gives you the opportunity to setup corners easier.

USE

Press the power button **[A]** to turn on the device. Two horizontal laser lines will be activated, auto levelling will start.

NOTE

The choice of the tripod determines the user-friendliness of the device.

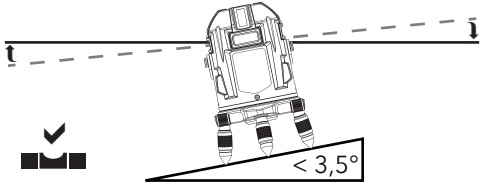
If the workplace has a high brightness, for example when working outside in a sunny area, you will need a laser receiver to detect the laser beam. (see further)

AUTO LEVELLING

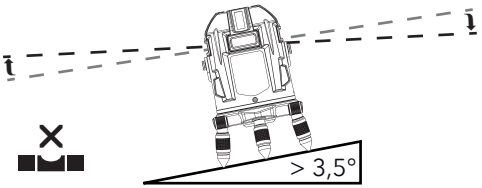
After turning on the device or when you turn off the slope mode, self levelling will automatically place the laserlines 100% levelled.

While levelling, the indicator LED Y-axis **[F]** flashes green.

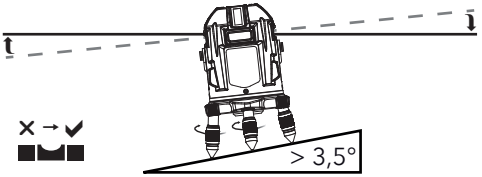
When levelling is finished, and the laser lines are 100% levelled, the indicator LED Y-axis **[F]** will be green.



The laser can level itself in a range of approx. 3,5° in every direction. This means the laser can show 100% horizontal or vertical lines when placed on a sloped surface of approx. 3,5° maximum.



In case the laser is placed on a surface that exceeds the 3,5°, a levelled horizontal or vertical laser line will no longer be possible.
The indicator LED Y-axis **[F]** and the laser lines will start flashing.



Place the laser device on a flatter surface, within the levelling range of 3,5° or turn the adjustable feet **[08]** to bring the device within the 3.5° levelling range if possible. The laser will self level automatically when placed within its levelling range.

NOTE

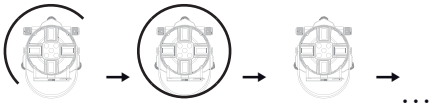
When a tripod is used, the adjustable feet will have no effect.

■ SWITCHING ON/OFF LASER LINES

When switching on the device, only two of the four horizontal laser lines will be activated.

_ HORIZONTAL LASER LINES

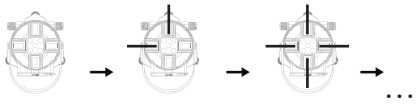
To change the projected horizontal laser lines, press the H-button for horizontal lines **[B]**.



- Press the H-button **[B]** a first time to switch on all horizontal lines.
- Press the H-button **[B]** a second time time to switch off all horizontal lines.
- Press the H-button **[B]** again to switch on two of the four horizontal laser lines.
- ... (these three previous steps will repeat)

_ VERTICAL LASER LINES

To change the projected vertical laser lines, press the V-button for vertical lines **[C]**.



- Press the V-button **[C]** a first time to switch on two of the four verical laser lines and the plumb point (projected from the tripod thread **[05]**).
- Press the V-button **[C]** a second time to switch on all vertical laser lines and the plumb point (projected from the tripod thread **[05]**).
- Press the V-button **[C]** a third time to switch off all vertical lines and the plumb point (projected from the tripod thread **[05]**).
- ... (these four previous steps will repeat)

NOTE

When at least two vertical lines are switched on, you can measure an exact angle of 90° or show a plumb line (imaginary line between the cross on the floor and the cross on the ceiling)

■ USING A LASER RECEIVER

When you work over long distances or the workplace has a high brightness, laser lines will be less visible for the human eye. In this case, you can use a laser receiver to detect the laser lines.

· Press the receiver button [D] to activate the reveiver mode. The indicator LED X-axis [G] on the device will light green.

When the receiver mode is switched on, the laser line will pulsing extremely fast. It appears to the human eye that the intensity of the laser line(s) will decreas slightly.

When switched on, you can locate the laser lines with a receiver.

· Press the receiver button [D] again to deactivate the receiver mode.

It looks the laser lines will become brighter again (stops pulsing). Detection by a laser receiver is no longer possible.

NOTE

· The Multicross 8 High Precision (Single Dot) will pulse with a frequency of 10KHz. That means your laser receiver must support a frequency of 10KHz. Please refer to your laser receiver manual for further support.

· It is not possible to switch ON/OFF the receiver mode when the slope function is activated, since the receiver button [D] uses his secondary function when slope is active.
Switch on the receiver mode first in order to use the receiver mode in combination with the slope function.

■ SLOPE FUNCTION

When switching on the device, the self levellig mode is automatically actived. In case you need to project sloped lines, you can switch off the automatic levelling by activating the slope mode.

The Multicross 8 High Precision (Single Dot) offers 2 ways to use slope, manual and electronic.

· Activate the slope with the slope button [E].

· Change back to automatic levelling (turn off slope mode) by pressing the slope button [E] again.

NOTE

During slope is activated, the H-button [B], V-button [C] and Reveiver button [D] will change from their main function to their secondary function, which are shown with a white background on the buttons.

When activate slope function, all horizontal laser lines and two vertical lines will be activated. The plumb point projected from the tripod thread [05] will only be visible when at least two vertical lines are active before the slope

function was activated.

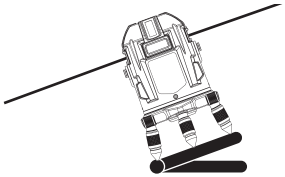
When activating the slope function, receiver mode will automatically activated too.

MANUAL SLOPE

When using manual slope mode you can use the adjustable feet [11] to gently position te device at the desired slope. You can also physically position the device at the desired slope by using an inclined surface or a slope adapter (optional accessory) in combination with a tripod adapter.

NOTE

Manual slope is the only way te set sloped lines that exceed the levelling range of the device.



> 3,5°

· Activate the manual slope mode by pressing the slope button [E] in the center of the keypad [03].

When the manual slope mode is active, the slope indicator LED [H] becomes red and the indicator LED Y-axis [F] starts flashing green to indicate the Y-axis can be set (see further, electronic slope).

· Bring the laser in the desired slope using the adjustable feet [11], a slope adapter (optional accessory) in combination with a tripod adapter or by place the laser on a sloping surface.

· To deactiviate the manual slope mode, press the slope button [E] a second time.

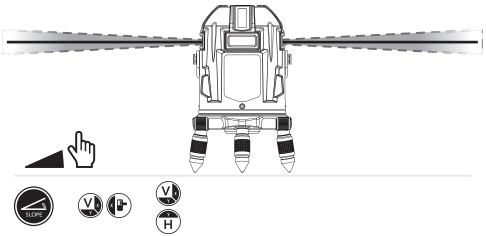
Slope mode is now no longer active and your device will start levelling (indicator LED Y-axis [F] flashes green).

ELECTRONIC SLOPE

Electronic levelling works very similarly to manual levelling. However, setting the slope is done by the levelling motors within the levelling range of 3,5°.

NOTE

We recommend the use of a laser receiver in combination with a rod to set slopes. This will make it easier to find the desired heights on each corner of the sloped surface.



· Activate the manual slope mode by pressing the slope button [E] in the center of the keypad [03].

When the manual slope mode is active, the slope indicator LED [H] becomes red and the indicator LED Y-axis [F] starts flashing green to indicate slope can be set in parallel with the Y-axis.

· Press or hold the V-button [C] to make the laser line descends on the side pointed by the arrow of the Y-axis.

· Press or hold the H-button [B] to make the laser line rises on the side pointed by the arrow of the Y-axis.

· To change to the Y-axis, press the receiver button [D].

The indicator LED Y-axis [F] stops flashing, the indicator LED X-axis [G] starts flashing. This shows the device is ready to be set the slope in parallel with the X-axis.

· Press or hold the V-button [C] to make the laser line rises on the side pointed by the arrow of the Y-axis.

· Press or hold the receiver button [D] to make the laser line descend on the side pointed by the arrow of the Y-axis.

The slope is now set on the X- and Y-axes.

If you like, you can go back to adapt the Y-axis by pressing the H-button [B]. The indicator LED X-axis [G] will no longer flash. The indicator LED Y-axis [F] will starts flashing. This shows the Y-axis is ready to set.
You can repeat this steps as much you like.

· Turn off the slope mode by pressing the slope button [E].

The laser is going to auto-level itself again.

SPECIFICATIONS

	039.80R	039.80G	040.08	040.08G
Visibility				
Precision	1mm / 10m			
Range (with receiver)	up to 2x 50m (with receiver)			
Dust- and water proofness	IP54			
Battery	7.4V, 2600mAh Li-ion (art.nr.: H60023)			
Charger	8.4V, 1.0Ah (art.nr.: H60019)			
Levelling	Motor levelling			
Self-levelling range	+/- 3,5°			
Slope function	Manually + Electronic			
Maximum settable slope	+/- 3,5° (X-axis/Y-axis)			
Built-in screw for tripod	5/8"			
laser dots / line	0		8x 1 dot	
Laser frequency	10KHz (in receiver mode)			
Laser class	Class 2 635nm <1mW	Class 2 520nm <1mW	Class 3R 660nm 1mW ~ <5mW	Class 3R 520nm 1mW ~ <5mW
Operating temperature	-10 to 50°C			
Storage temperature	-15 to 55°C			
Dimensions	139 x 138 x 206 mm			
Weight	1.29 kg			

CE

DECLARATION OF CONFORMITY

Futech (Belgium) declares under its own responsibility that these devices:

- 039.80R - MULTICROSS 8 HP Red
- 039.80G - MULTICROSS 8 HP Green
- 040.08 - MULTICROSS 8 HPSD Red
- 040.08G - MULTICROSS 8 HPSD Green

are in conformity with the standards

EN 61326-1:2013
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 60825-1:2014

following the provisions of Directive(s)

2014/30/EU
2014/35/EU.

Lier, Belgium,
April 21, 2023
Patrick Waûters

USER MANUAL

other languages:

FUTECH

Facebook
@futechtools

LinkedIn
futechtools

World Wide Web
futech-tools.com

YouTube
@futechtools

230424092607