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PROCROSS 8.0 DS

CROSS LINE LASER

044.80G

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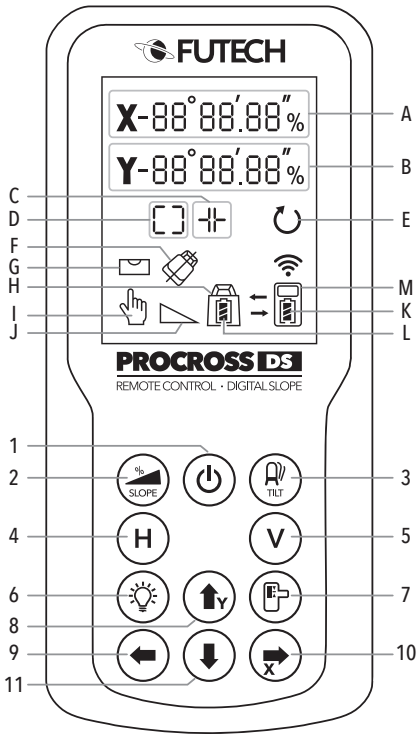
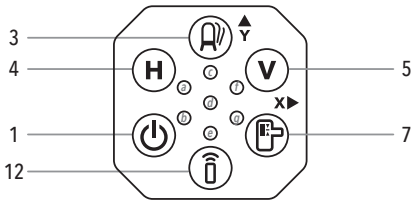
DESCRIPTION

A. Slope percentage X-axis
B. Slope percentage Y-axis
C. Active vertical lines (V1 - V2 - V3 - V4)
D. Active horizontal lines (H1 - H2 - H3 - H4)
E. Receivermode
F. Tilt indicator symbol
G. Levelling symbol
H. Connection symbol of laser device
I. Manual mode
J. Slope indicator
K. Battery status of remote control
L. Battery status of laser device
M. Remote control symbol

1. Power button
2. Slope button
3. Tilt button
4. Horizontal lines
5. Vertical lines
6. Backlight for LCD screen
7. Receiver mode
8. UP button
9. LEFT button
10. RIGHT button
11. DOWN button
12. Remote control button

a. Horizontal LED
b. Power LED
c. TILT LED
d. Level/Slope LED
e. Remote controle LED
f. Vertical LED
g. Receiver mode LED





OPERATION WITHOUT REMOTE CONTROL

This part only applies to the buttons on the Procross 8.0 DS, not the buttons and LCD screen on the remote control!

- Tilt-Button [3]
  (de-)activate the Tilt function

- Horizontal Button [4]
  - (de-)activate the horizontal lines of the laserdevice
    H1 / H1+H2 / H1+H2+H3+H4 / no horizontal lines
  - When slope modus is activated on x-axis (Horizontal [a] and Verical [f] LED lights up):
    - Adjust slope on the X-axis (left/right)
  - When slope modus is activated on y-axis (Verical [f] and Receiver mode [g] LED lights up):
    - Switch slope adjustment from y-axis to x-axis

- Vertical Button [5]
  - (de-)activate the vertical lines of the laserdevice
    V1 / V1+V2 / V1+V2+V3+V4 / no vertical lines
  - When slopemodus is activated:
    - (Horizontal [a] and Verical [f] LED lights up)
      Adjust slope on the X-axis (left/right)

    - (Verical [f] and Receiver mode [g] LED lights up)
      Adjust slope on the Y-axis (up/down)
- Power button [1]
  - Press the button to set the laserdevice on/off
  - Hold (>2sec.) to (de-)activate the slopemodus

- Receiver button [7]
  - (de-)activate the receiver mode.
    - Press 1 time: Receiver mode is activated, saving 35% battery power.
    - Press 2nd time: Receiver mode is activated, saving 65% battery power.
    - Press 3rd time: Receivermode is deactivated.
  - When slope modus is activated on y-axis (Verical [f] and Receiver mode [g] LED lights up):
    - Adjust slope on the Y-axis (up/down)
  - When slope modus is activated on x-axis (Horizontal [a] and Verical [f] LED lights up):
    - Switch slope adjustment from x-axis to y-axis

- Remote controle button [12]
  - (de-)activate the connection with the Remote contol.

OPERATION WITH REMOTE CONTROL

You must activate the remote function on the laser device in order to use this device with the remote control. Press the Remote control button [12] to activate the remote funtion. The Remote control LED [e] will glow blue.

SETTING ON/OFF THE DEVICE

- Press the Power button [1] on the remote control to (de-)activate the laser device. The LCD screen of the remote control shows the battery status for the laser [L] and the remote control [K] as well the activated laser lines [C] [D].
- The levelling symbol [G] flashes while the laser is levelling. When te device is complete levelled, the levelling symbol [G] will light constantly.
  On the decive, the level/slope LED [d] will flash green during levelling and will light constantly when the device is levelled.

- ***PLEASE NOTE THAT SWITCHING ON THE LASER DEVICE WITH THE REMOTE CONTROL IS NOT POSSIBLE AFTER SWITCHING OFF THE LASER WITH THE POWER BUTTON ON THE DEVICE.***

HORIZONTAL LINES

By pressing the Horizontal lines button [4] on the remote control you (de-)activate the horizontal laserlines.
- H1 / H1+H2 / H1+H2+H3+H4 / no horizontal lines

VERTICAL LINES

By pressing the Vertical lines button [5] on the remote control you (de-)activate the horizontal laserlines.
- V1 / V1+V2 / V1+V2+V3+V4 / no horizontal lines

BACKLIGHT

To offer you more visibility, the LCD screen of the remote control has a backlight. (De-)activate this backlight by pressing the button backlight for LCDscreen [6].

TILT-FUNCTION

The TILT function prevents measuring errors. For example when you use the laser device in a shaky environment or on a windy place, or when someone hits the la-

ser by accident, it can happen the laser moved a little, out of your sight. With this TILT function the laser will no longer show laserlines. An alarm warns you the laser position has changed.

- After switch on the Procross 8.0 DS, the TILT function prepares automatically (TILT LED [c] flashes slowly). Approx. 60 seconds after the device is levelled and in case there was no manipulation by the user during these 60 seconds, the TILT fucntion will be activeted (TILT LED [c] flashed fast).
  During the countdown and when the Tilt fucntion is active, the tilt indicator symbol [F] is continiously visible on the screen of the remote control

- The laser is tilted
  When the laser device is impacted, the TILT warning will be activated. An alarm will sound. The TILT LED [c] will now light red continuously and the laser beams will be switched off. The Tilt indicator symbol [F] and the Levelling symbol [G] on the screen of the remote control start flashing.
  Check the correct laser position again before continuing. You can re-activate the laserlines by pushing the Tilt button [3] on the device or on the remote control (if the remote function is activated). The TILT LED [c] will be switched off.
  After checking the correct laser position, you can re-start the tilt function bij pushing the Tilt button [3]. The TILT LED [c] will start flashing slowly again. After approx. 60 seconds the Tiltfunction will be active again.

- Sensitivity of the Tilt function
  In exceptional cases it is recommended to use a slightly less sensitive tilt function. You can lower the sensitivity of the tiltfunction by holding the receiver button [7] on the laser device (not on the remote control). The LED indicators of the Horizontal [a] and/of Vertical [f] lines (this depends on which lines are active) will start flashing. The sensitivity of the tilt function is now lower.
  Keep in mind that a lower sensitivity increases the chance of measuring errors.
  To turn the sensitivity back to normal, lhold the receiver button [7] again. The LED indicators of the Horizontal [a] and/of Vertical [f] lines (this depends on which lines are active) will no longer flash flash, but light continiously.

SLOPE FUNCTION

The Futech Procross 8.0 DS has 3 different slope functions: Manual slope, Electronic slope, Digital slope.

- ***IT IS NO LONGER POSSIBLE TO (DE-)ACTIVATE LASERLINES USING THE DEVICE KEYPAD AS LONG AS THE SLOPE FUNCTION IS ACTIVATED. ACTIVATE THE DESIRED LASERLINES BEFORE YOU ACTIVATE THE SLOPE FUNCTION OR USE THE REMOTE CONTROL TO CHANGE THE ACTIVE LASERLINES.***

Manual slope

Activate the manual slope function by hold the power button [1] of the device for approx. 2 seconds OR by press the slope button [2] on the remote control.
The Level/Slope LED [d] of the device becomes red and the display of the remote control shows the Slope indicator [J] and the Manual mode sign [I].

You can use the rotating legs of the Amphibase to gently position the device at the desired angle. You can also physically position the unit at the desired slope by using an inclined surface or by using a slope adapter (not included).

To turn off the manual slope, hold the power button [1] for approx. 2 seconds OR press the slope button [2] on the remote control again. The Level/Slope LED [d] starts blinking green (levelling) and the Levelling symbol [G] flashes on the display of the remote control untill the device is levelled again.

Electonic slope

To use the electronic slope op the Procross 8.0 DS, you have to activate the man-

ual slope function of the device by holding the power button [1] on the device for approx. 2 seconds OR by pressing the slope button [2] on the remote control. The Level/Slope LED [d] of the device becomes red and the display of the remote control shows the Slope indicator [J] and the Manual mode sign [I].

- Set an electronic slope using the device keypad
  When the manual slope is activated, the Horizontal LED [a] and Vertical LED [f] light. This means you can use the Horizontal lines button [4] and the Vertical lines button [5] to set the desired slope on the x-axis (on the keypad of the device).
  Switch to the y-axis by pressing the Receiver button [7]. The Vertical LED [f] and the Receiver Mode LED [g] light. This means you can use the Vertical lines button [5] and the Receiver button [7] to set the desired slope on the y-axis (indicated on the keypad of the device).
  To switch back to the x-axis, press the Horizontal lines button [4].

- Set an electronic slope using the remote control
  When the manual slope is active, you can use the 4 arrows on the remote control (UP button [8], LEFT button [9], RIGHT button [10], DOWN button [11]) to set the desired slope. The LEFT button [9] and RIGHT button [10] are used to set the slope on the x-axis, the UP button [8] and DOWN button [11] to set the slope on the y-axis.

To turn off the manual slope, hold the power button [1] for approx. 2 seconds OR press the slope button [2] on the remote control again. The Level/Slope LED [d] starts blinking green (levelling) and the Levelling symbol [G] flashes on the display of the remote control untill the device is levelled again.

Digital Slope

The Procross 8.0 DS offers the possibility to set a digital slope. You can add the percentage for the x- and y-axis and the device will set the slope for you.

You can only activate the digital slope by using the remote control. Make sure the Remote function of the Procross 8.0 DS is activated. To activate the remote function, press the Remote controle button [12]. The remote control LED [e] lights blue.

- Hold the Slope button [2] for approx. 2 seconds. The display shows Slope percentage of the X-axis [A] and the Y-axis [B] (both 0% by activating).

  The value of the X-axis [A] blinks, this means that the slope can be set on this axis. Select the desired slope percentage using the UP [8] or DOWN [11] button.

  Press the LEFT [9] or RIGHT button [10] to go to the Y-axis. The Y-axis value [B] starts blinking. Select the desired slope percentage using the UP [8] or DOWN [11] button.

  When the slope percentages for X- and Y-axis are selected on the remote control confirm this by pressing the TILT button [3]. This will send the selected slope to the laser device.

- ***BEFORE SETTING THE LASER LINES UNDER THIS SLOPE, THE DEVICE WILL LEVEL FIRST (= SEARCHING THE 0% REFERENCE POSITION).***
  WHILE LEVELLING, THE X AND Y FROM THE SLOPE PERCENTAGE INDICATORS [A] AND [B] ON THE LCD SCREEN AND THE RED LEVEL/SLOPE LED [d] WILL BLINK.
  AFTER THE MOTORISED PENDULUM IS LEVELLED, THE LASER LINES WILL MOVE TO THE SLOPE YOU'VE SELECTED ON THE REMOTE CONTROL. WHEN THE SLOPE IS SET, THE RED LEVEL/SLOPE LED [d] WILL STOP BLINKING.
  (IN SOME CASES THIS OPERATION CAN TAKE UP TO APPROX. 60 SECONDS)

- To set a new slope, press the LEFT [9] or RIGHT button [10] to enter the setting again and repeat the steps above.

· To turn off the digital slope, hold the slope button [2] for approx. 2 seconds. The laser will start levelling itself.

BATTERY

Use only the battery (14.8V, 3400mAh - Art.nr.: H60031) and the charger (16.8V, 2.6A - Art.nr.: H60032) supplied with the Procross 8.0 DS.
The remote control needs 4x AAA Alkaline batteries (LR03).

You can check the battery power by pressing the power button on the device. The 4 LED indicators will show you the battery power
(4 LEDS on = 100% ➞ 1 LED on < 25%)
You can also check the battery power on the display of the remote controle, when connected. The battery status of laserdevice indicator [L] shows the power of the laser device; The battery status of remote control indicator [K] shows the power of the remote control.

When the battery of the device runs out of power, the projected laserlines starts to blink slowly. The Power LED will start blinking red

PAIRING THE REMOTE CONTROL

Under normal circumstances, when the units are shipped from the factory, a paired remote control is included. In exceptional cases it may happen that this link has not been made. In that case, or when you need to replace a defective remote control with a new one, you can pair it with your Procross 8.0 DS following this steps:

· Shut down the laser
· Place the batteries in the new remote control. Do not turn on the remote control yet.
· On the remote contol, press the Slope [2] and Tilt [3] button at the same time and hold.
· Press the power button [1] of the remote control while holding the Slope [2] and Tilt [3].
· The connection symbol [H] and the remote control symbol [M] start blinking on the display.
· Press the power button [1] of the laser to turn on the laser.
· When the connection symbol [H] and the remote control symbol [M] no longer blink on the screen, the pairing is done.

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SPECIFICATIONS

Precision	1mm / 10m
Range (with receiver)	up to 2x 200m
Dust- and water proofness	IP66
Battery	14.8V, 400mAh Li-ion
Charger	16,8V, 2.6A
Levelling	Motor levelling
Self-levelling range	+/- 3,5°
Slope function	Manually + Electronic + Digital
Maximum settable slope	+/- 10° (X-axis/Y-axis)
Remote control	Yes
Built-in screw for tripod	5/8"
Laser frequency (in receiver mode)	10KHz
Laser class	Class 2 - 520nm - <1mW
Operating temperature	-10 to 40°C
Storage temperature	-15 to 55°C
Dimensions (only laser device)	173 x 155 x 235 mm
Weight (only laser device)	2,37 kg

Futech is a registered brand of Laseto NV, Belgium.

Futech declares that the Procross 8.0 DS
is in conformity with the following standards:
- EN 61000-6-1:2019
- EN 61000-6-3:2007 + A1:2011 + AC:2012
- EN 61326-1: 2013
- EN 61000-3-2: 2019
- EN 61000-3-3: 2013 + A1: 2019
- EN 60825-1: 2014 + A1:2017

following the provisions of Directive:
- EC EMC Directive 2014/30/EU
- LVD Directive 2014/35/EU

Tested by
Shenzhen CTL Testing Technology Co., Ltd. / Shenzhen, China 518055

Certificate number
CTL2012018012-EC (Dec. 16, 2020)
CTL2012018011-EC (Jan. 04, 2021)
CTL2012018011-SC (Jan. 13, 2021)