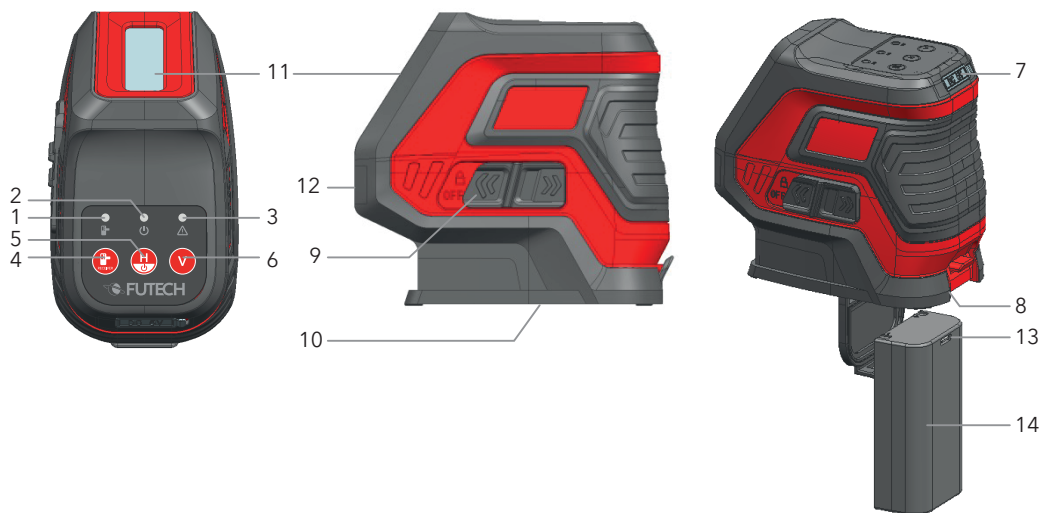


INSTRUCTION MANUAL [EN]

011.20R – SATURN 2.0 RED

011.20G – SATURN 2.0 GREEN

OVERVIEW



1. Receiver mode LED indicator
2. Power LED indicator
3. Slope warning LED indicator
4. Receiver mode button
5. Horizontal laser line / Power-button
6. Vertical laser line
7. USB-C socket (for power)
8. Battery compartment
9. ON/OFF / Pendulum Lock Switch
10. 1/4" Tripod connection
11. Vertical laser exit
12. Horizontal laser exit
13. USB-C connector (for charging)
14. LI-ION battery

SAFETY

Please read the complete safety instructions in the booklet delivered with this device.

Use extreme caution when the laser beam is turned on.

Do not let the beam enter your eyes, another person's eyes or the eyes of an animal. Be careful that reflections of the beam (on a reflective surface) do not strike your eyes.

Do not aim the laser beam at any gas that may explode.

FIRST USE

Remove protective films where applied.

Open the [4] battery compartment and insert the supplied battery. The battery must be inserted with the arrow direction (see battery) pointing inside the product.

POWER

Type of battery: 7.4V Li-ion battery (2200 mAh)

Type of charger for battery: 5V-1A

The battery should only be charged with the included cable.

Charging only happens when the cable is connected to the main net and connected with the USB-C connector (for charging) [13] which is situated on the battery [14].

Connecting the cable to the USB-C socket (for power) [7] does NOT charge the battery!

The product can also be powered directly from main power when the battery is unable to power the device (i.e. battery is missing/ran flat). Using the USB-C socket (for power) [7] on the device and the included power supply cable, the product will work normally.

While using the USB-C socket (for power) [7], the battery (if present inside the device) will NOT charge.

When the [5] Power LED starts flashing, the battery is running low. This warning tells the user that the apparatus will work for ± 30 minutes before powering off.

USAGE

1. Aligned

Slide the ON/OFF / Pendulum Lock switch [9] to the ON side. The switch will hide 'ON' and 'OFF' becomes visible. The power LED indicator [4] will turn on. The pendulum levelling mechanism is released, and the instrument will align on its own. The Horizontal laser line will light up.

Make sure that the instrument is placed on a flat surface with a maximum slope of $3,5^\circ$. If the slope exceeds $3,5^\circ$, the lasers will start blinking. The slope warning LED indicator [6] start blinking too.

2. Manual slope

To work in manual slope mode, the pendulum needs to be blocked. Make sure the ON/OFF / Pendulum Lock switch [9] is in the OFF position (OFF is covered, ON is visible).

Switch on the device by holding the Horizontal laser line / Power button [5] for approx. 3 sec. until the laser switches ON. Now you can manually tilt the laser a tripod with tilting head to get the desired slope.

To inform you the laser isn't levelled, the laser line will blink shortly every 10 sec. The slope warning LED indicator [3] blinks continuously.

We advise to use a slope adapter (optional) or tripod with tilting head (optional) to set slopes.

3. Horizontal / Vertical laser line

· Horizontal laser line (Horizontal alignment)

After the device is ON, the Horizontal laser line can be switched ON/OFF by pressing the Horizontal laser line / Power-button [5].

It is recommended to place the horizontal line at working height. This will enhance work quality.

· Vertical laser line (Vertical alignment)

After the device is ON, the Vertical laser line can be switched ON/OFF by pressing the Vertical laser line button [6]. The vertical laser line always forms a perfect 90° angle with the horizontal laser line.

4. Receiver mode

When working in a bright environment (e.g. outdoors) or over longer distances, laser lines become less visible for the human eye. To find the laser lines in those situations, this laser can be used with a laser receiver.

To activate the Receiver mode, press the receiver mode button [4].

The receiver mode LED indicator [1] will light up and you will notice the activated laser lines decrease slightly in brightness. In receiver mode, the laser line will start blinking very fast (pulse at 10KHz) to allow the laser receiver, which operates by pulsed light, to detect the laser line.

To deactivate the receiver mode, press the Receiver mode button [4] again. The receiver mode LED indicator [1] goes out and the brightness of the active laser lines will increase again.

5. Tripod connection

The bottom side of the device is provided with a 1/4" tripod connection.

IMPORTANT

Always LOCK the pendulum when transporting the device. The ON/OFF / Pendulum Lock switch must be in the OFF position (OFF covered, ON visible). Only in this case the pendulum is locked and safe to transport.

Not locking the pendulum during transport can damage your laser device.

MAINTENANCE

Repairs or services are not covered in this manual and should only be carried out by qualified trained technicians. Periodically, wipe the body with a dry cloth. Do not use abrasives or solvents on this instrument. For service, use only manufacturer's specified parts.

To ensure the continued proper functioning of your laser, and to avoid measurement errors, we recommend that you have your laser calibrated by an authorized service center at least once a year.

SPECIFICATIONS

	011.20R Saturn 2.0 Red	011.20G Saturn 2.0 Green
Accuracy	±2 mm/ 10m	
Range (without receiver)	15 m	
Range (with receiver)	50 m	
Dust- & waterproofness	IP54	
Power connector	Included	
Levelling	Pendulum leveling	
Self-levelling range	±3,5°	
Slope function	Manual	
Maximum input slope	±45°	
Built-in screw for tripod	¼"	
Pendulum lock (manual slope)	Present	
Transport safety mode for pendulum	Present	
Amount of laser diodes	2	
Laser frequency (receiver mode)	10 kHz	
Laser class	Class 2: 635nm (< 1mW)	Class 2: 520nm (< 1mW)
Batteries	7,4V Li-ion battery 2200 mAh	
Battery life (with all lines ON)	± 25 - 30h.	± 8 - 9.5h
Operating temperature	-5 °C < T < 40 °C	
Power connector	Present	
Charger integrated in power connector	Yes	
Thickness x width x height	105 x 60 x 95 mm	
Weight	0,42 kg	