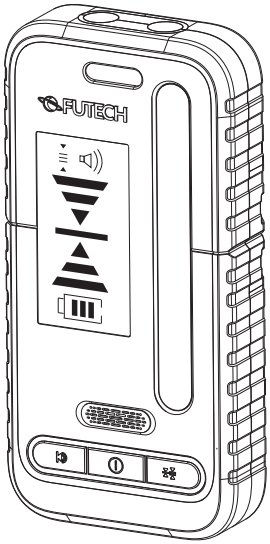
USER MANUAL

152.30.LT LINE TRACER R/G



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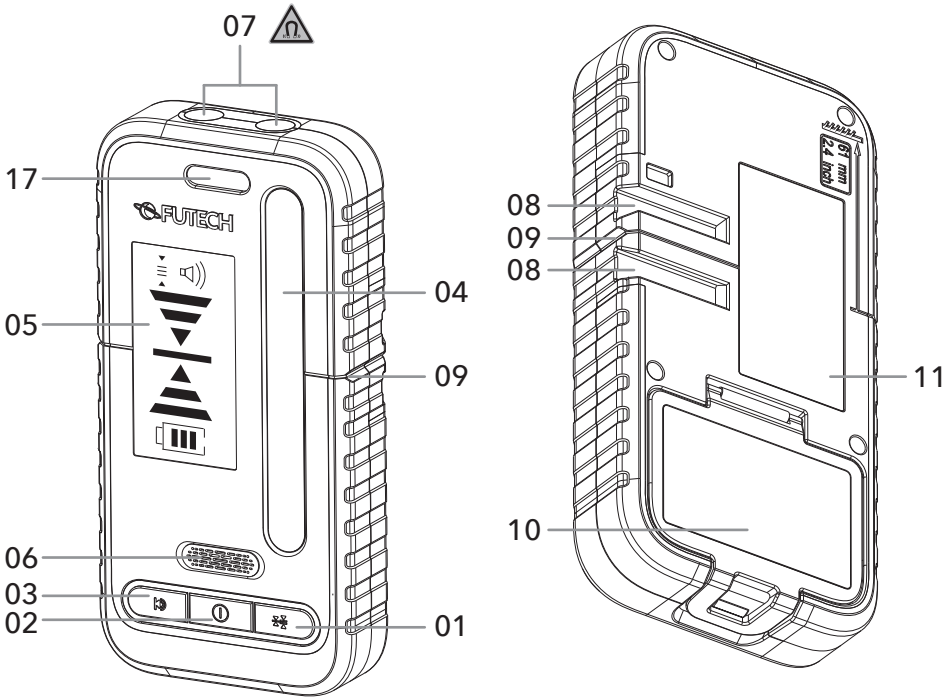
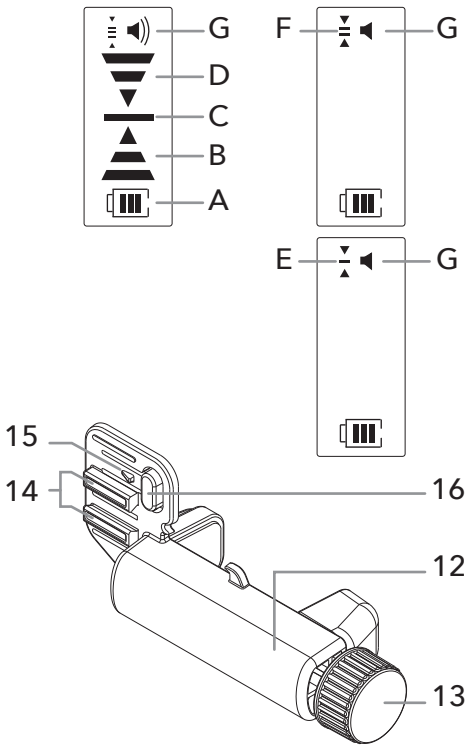
OVERVIEW





▪ RECEIVER

01 Button to adjust the reception accuracy
02 On/off button
03 Audio signal button
04 Laser beam reception area
05 Front display
06 Speaker
07 Magnets
08 Guide groove for holder
09 Center mark
10 Battery cover locking mechanism
11 Rear display
12 Holder
13 Rotary knob of holder
14 Guide rail
15 Holder locking mechanism
16 Release button holder locking mechanism

▪ SCREEN

A Battery warning
B Direction Indicator: "Laser beam above centre line"
C Centre line indicator
D Direction indicator: "Laser beam below centre line"
E Reception accuracy indicator: "Coarse"
F Reception accuracy indicator: "Fine"
G Audio signal indicator

This laser receiver is designed for use with (cross) line lasers and can detect both red and green laser beams with a frequency of 10 kHz.
Note: this laser receiver is not compatible with rotary lasers.

OPERATIONS

Before initiating the self-test, check whether the batteries have been installed correctly inside the device.

▪ INSERT BATTERIES

· Open the Battery cover **[10]** by hand.

· Insert the battery, ensuring that the poles are positioned correctly.

· Close the Battery cover **[10]**.

NOTE:

Only use AA battery.

Close the Battery cover **[10]** firmly to maintain IP54 water and dust protection.

Remove the battery if the device is not used for an extended period, as batteries can corrode and self-discharge during prolonged storage.

When the battery warning first appears, the laser receiver can still operate for approximately 2 hours.

Always replace all batteries at the same time. Use batteries from the same manufacturer and with the same capacity.

▪ SWITCH ON/OFF

ATTENTION:

An audio signal sounds when switching on the laser receiver. Keep the laser receiver away from your ear or other persons when switching on the receiver.

· To switch on the laser receiver, press the On/Off button **[02]**. All display indicators will light up briefly, and an audio signal will sound. After switching on, the volume is set to medium, and the reception accuracy is set to “fine” by default.

· To switch off the laser receiver, press the On/Off button **[02]** again. All display indicators will light up briefly before the tool switches off, and an audio signal will sound.

If no button is pressed on the laser receiver for approximately 20 minutes and no laser beam reaches the reception area **[04]** during this time, the laser receiver will automatically switch off to

preserve battery life. This will be indicated by all display indicators lighting up briefly, followed by an audio signal.

▪ SETTING UP THE LASER RECEIVER

- Place the laser receiver at least 5 meters away from the (cross) line laser.
- Ensure the receiver mode is activated on the laser. (Refer to the laser's manual for instructions.)
- Select an operating mode that generates either a horizontal or a vertical laser beam, but not both simultaneously. (Refer to the laser's manual for instructions.)

IMPORTANT:
Do not select an operating mode that generates both horizontal and vertical laser lines at the same time, as this may impair the accuracy of the height readings.

- Position the laser receiver so that the laser beam reaches the reception area. Align the receiver so the laser beam passes straight through the reception area.

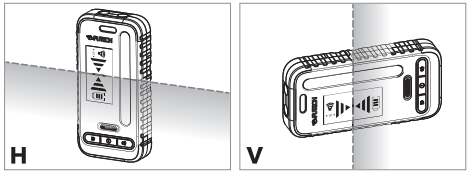
▪ ADJUSTING THE RECEPTION ACCURACY

You can use the button to adjust the reception accuracy [01], which specifies how precisely the position of the laser beam is indicated as "centred" in the reception area:

– Reception accuracy "fine" [F]: accuracy of 1mm.
– Reception accuracy "coarse" [E]: accuracy of 3mm.

▪ DETECTING THE LASER LINE

- Move the laser receiver up and down (for horizontal line detection) or left and right (for vertical line detection), until the laser beam is detected in the reception area [04].



The following indicators will then guide you to adjust the position of the receiver:

LASER RECEIVER TOO LOW:

If the laser beam runs through the upper half of the reception area [04], the direction indicator

"Laser beam above centre line" [B] on the display will light up.

If the audio signal is switched on, a low-frequency signal will sound.

· Move the laser receiver upwards in the direction of the arrow.

LASER RECEIVER TOO HIGH:

If the laser beam runs through the lower half of the reception area [04], the direction indicator "Laser beam below centre line" [D] on the display will light up.

If the audio signal is switched on, a high-frequency signal will sound.

· Move the laser receiver downwards in the direction of the arrow.

LASER RECEIVER CENTRED:

If the laser beam runs through the reception area [04] at the height of the centre mark [09], the centre line indicator [C] will light up.

If the audio signal is switched on, a continuous tone will sound.

When the beam hits the centre of the reception area [04], you can mark the position of the laser beam at the centre mark [09] on the left and right of the laser receiver.

When marking, ensure the laser receiver is aligned correctly:

- For a horizontal laser beam, the receiver must be exactly vertical.
- For a vertical laser beam, the receiver must be exactly horizontal.

If the receiver is not aligned properly, the marks will be offset in relation to the laser beam.

ADJUSTING THE VOLUME

The position of the laser beam in the reception area [04] can also be indicated by an audio signal. The volume level of the audio signal can be adjusted or it can be switched off.

· To change the volume level or switch off the audio signal, press the audio signal button [03] until the desired volume level is displayed. The options are:

- Low volume: The audio signal indicator [G] appears on the display with no bars.
- High volume: The audio signal indicator [G] appears with two bars.
- Audio signal off: The indicator disappears from the display.

Regardless of the audio signal setting, a short beep will sound at low volume each time a button is pressed on the laser receiver.

IMPORTANT

Protect the laser receiver against moisture and direct sunlight or do not subject the laser receiver to extreme temperatures or temperature variations.
For example: do not leave it in vehicles for extended periods. In case of large temperature variations, allow the laser receiver to adjust to the ambient temperature before putting it into operation. Extreme temperatures or temperature variations may affect the accuracy of the laser receiver.

DECLARATION OF CONFORMITY

Futech (Belgium) declares under its own responsibility that this device:

- 152.30.LT LINE TRACER R/G
is in conformity with the standards

EMC DIRECTIVE 2014/30/EU:
- EN IEC 55014-1: 2021
- EN IEC 55014-2: 2021

Lier, Belgium,
April, 2024
Patrick Waûters

TECHNICAL SPECIFICATIONS

Working range	5 - 60m (depending on laser strenght and environment)
Precision	Fine (1mm) Coarse (3mm)
Detectable spectrum	510 to 650nm
Reception angle	90°
Operating temperature	−10°C to +50°C
Storage temperature	−0°C to +70°C
Maximum relative air humidity	90%

Pollution degree according IEC 61010-1	3
Batteries	2x 1.5V LR6 (AA)
Approx. operating time	14h.
Weight according to EPTA-Procedure 01:2024	227g
Dimensions (L x W x H)	72 x 25 x 142mm
Protection range	IP54 (dust and splash-proof)

USER MANUAL

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