Laser ROBO Unevenness Checker Green

High Brightness | High Precision ±1mm/7.5m | Dust/ Water-proof IP54 | Remote rotation | Dual Power Source Battery AC

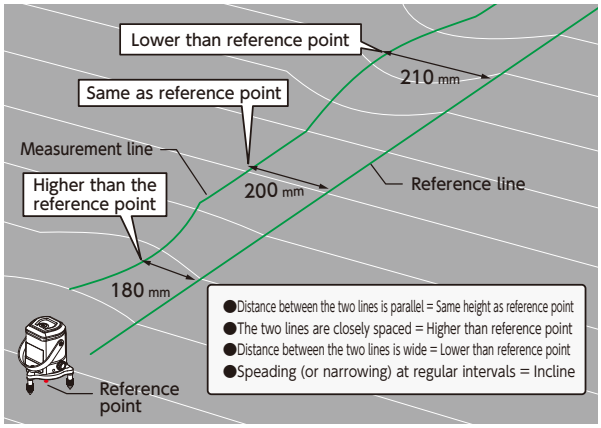
Pendulum + magnetic damper

Laser radiation
Avoid direct eye exposure
Maximum Output 5 mW Frequency 5.5 kHz
Wavelength 510 - 530 nm, 645 - 655 nm
Class 3R Laser Product JIS C6802: 2018

71621

What is Unevenness?

Unevenness refers to undulations and irregularities on a floor surface, and the unevenness checker is used to check the unevenness on the floor surface, the position of inclination, and the difference in height with numerical values.
Using the conventional level and auto level, 1 person can perform the work usually handled by 2 or more people.



Measurement method for height difference

The height difference from the reference point can be obtained by measuring and calculating the space (interval A) between the reference line and the measurement line.

●Formula

$$\frac{(200\text{-interval A})}{2} = \text{Floor surface height}$$

●Example

$$\frac{(200-210)}{2} = -5$$

When the interval is 210 mm, it's 5 mm lower than the reference point

●Parts are listed from p.274

Item Code	Description	Body Size (mm)	Weight (g)	JAN Code	Packing Unit	Packaging
71621	Motorized Rotary Mechanism	182×120×128	1,350	4 960910 716216	1	B

Features

- One person can check the unevenness and inclination of the floor with the laser's reference line and measurement line
- Remote control enables rotation of the main unit remotely
- Bluetooth® remote control will not interfere with unpaired devices
- Highly visible green laser
- Main body and remote control offer IP54-level dustproof and waterproof protection, so there is no risk of malfunction due to dust or water splashes
- Inclination is automatically corrected to ±2.5°
- Includes an AC adapter for continuous use over a long period

Use

- For checking unevenness and inclination on construction sites and interior finishing
- For one-person work and labor saving

Specifications

■Unevenness Checker

Light Source	Visible light semiconductor laser
Output	Less than 5 mW (class 3R JIS C6802: 2014)
Wave Length	510 - 530 nm(Green), Ground marking point: 645 - 655 nm(Red)
Height Difference Measurement Accuracy	±1 mm per 7.5 m
Guaranteed Accuracy Range	10 m*1
Visible Distance	0.5 - 20 m*2
Line Diameter	Reference line: 1.8 mm at 5m (2 mm at 7.5 m) Measurement line: 3 mm at 5 m (3.5 mm at 7.5 m)
Automatic Correction Range	±2.5°
Tilt Alarm	Laser light blinks when it gets over automatic correction range (about a 1-second interval)
Braking System	Pendulum + Magnetic damper
Power Source	4 AA alkaline batteries or AC adapter *3
Continuous Usage Time*4	5.5 hours
Maximum Range of Line	Laser light blinks for 8 secs. when turned on. (at 0.5-second intervals)
Dustproof/Waterproof	IP54*5 (When with batteries)
Accessories	Aluminum case, 4x AA alkaline batteries (for main body), AC adapter, remote control, 2x AA alkaline batteries (for remote control)

*1 Guaranteed accuracy when measuring and calculating height differences. Longer distances can be measured but accuracy is not guaranteed.
*2 Value for an environment where the light level is approximately 200 lux (seems too dark for detailed work). Varies with the usage environment.
*3 AA nickel-metal hydride rechargeable batteries can be used, but the main unit cannot be charged with the AC adapter.
*4 When using AA alkaline batteries at approximately 20°C.
*5 Dustproof performance: Prevents dust from entering the inside. A small amount of dust that has penetrated inside will not hinder normal operation. Waterproof performance: It will not be harmfully affected by a splash of water from any direction.

■Remote control

Communication Distance	Up to 20 m*1
Auto Power Off	Power automatically turns off 7 minutes after turning on
Power Source	2x AAA Alkaline batteries
Dustproof/Waterproof	IP54*2
Body Size	42 × 100 × 21 mm
Weight (including batteries)	About 100 g

*1 This is the maximum distance for communication in an unobstructed environment where there is a straight line between the main unit and the LCD monitor.
*2 Dustproof performance: Prevents dust from penetrating inside the device. A small amount of dust that has penetrated inside will not hinder normal operation. Waterproof: Protected from water spray from any direction.

Laser Robo Accuracy

With LEXIA 51…
Display accuracy: ±1 mm at 7.5 m

When the display accuracy shown above is converted to the accuracy at a (shorter) distance where a 10 m-long line can be projected on a wall,
the LEXIA 51 is ±0.76 mm with 10 m (line length). This is another way of describing accuracy.

*Laser depicted is an illustration.