Fanttik

D12 Ace

3 x 360°Laser Level

User Manual



IMPORTANT: Please read these instructions before operating the product.

Figure A

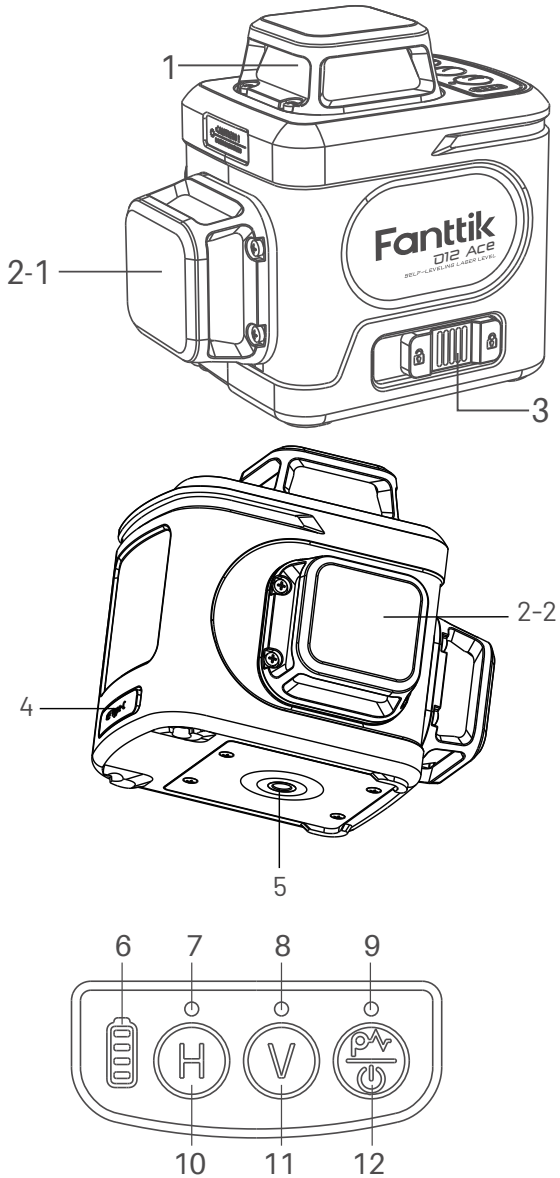


Figure B

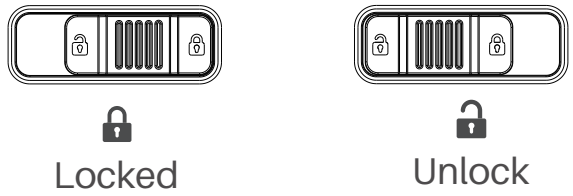


Figure C



Figure D

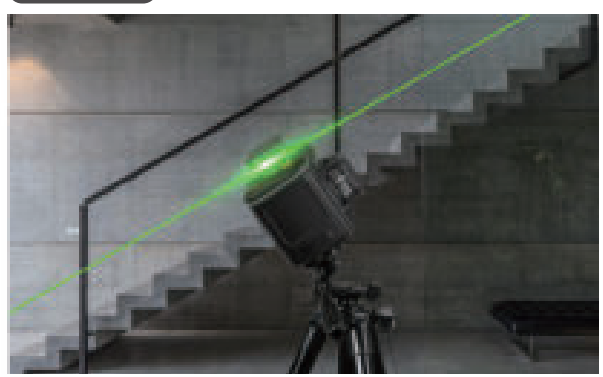


Figure E

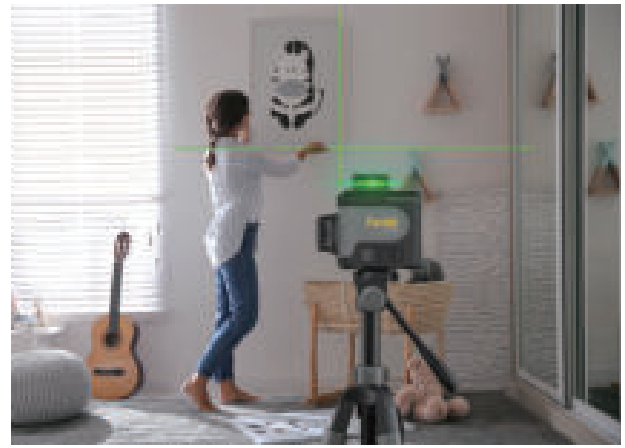


Figure F



Contents

1.Safety Warning 02

2.Package Content 08

3.Product Overview 09

4.Operation and Function 10

5.Specifications 12

6.Troubleshooting 13

7. FCC statement 15

Safety Warning

Definitions: Safety Guidelines

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.

DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE: Indicates a practice not related to personal injury which, if not avoided, may result in property damage.

WARNING: Read and understand all instructions. Failure to follow the warnings and instructions may result in electric shock,fire and/or serious injury.

SAVE THESE INSTRUCTIONS

WARNING: Laser Radiation Exposure. Do not disassemble or modify the laser level. There are no user serviceable parts inside. Serious eye injury could result.

WARNING: Hazardous Radiation. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

The label on your tool may include the following symbols.

V	volts
mW	milliwatts
	laser warning symbol
nm	wavelength in nanometers
2	Class 2 Laser

Warning Labels

For your convenience and safety, the following labels are on your laser.



WARNING: To reduce the risk of injury, user must read instruction manual.



WARNING: LASER RADIATION. DO NOT STARE INTO BEAM. Class 2 Laser Product

- Do not operate the laser in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Store idle laser out of reach of children and other untrained persons. Lasers are dangerous in the hands of untrained users.
- Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Do not use optical tools such as a telescope or transit to view the laser beam. Serious eye injury could result.
- Do not place the laser in a position which may cause anyone to intentionally or unintentionally stare into the laser beam. Serious eye injury could result.
- Do not position the laser near a reflective surface which may reflect the laser beam toward anyone's eyes. Serious eye injury could result.
- Turn the laser off when it is not in use. Leaving the laser on increases the risk of staring into the laser beam.
- Do not modify the laser in any way. Modifying the tool may result in hazardous laser radiation exposure.
- Do not operate the laser around children or allow children to operate the laser. Serious eye injury may result.

- Do not remove or deface warning labels. If labels are removed user or others may inadvertently expose themselves to radiation.
- Position the laser securely on a level surface. Damage to the laser or serious injury could result if the laser falls

⚠ **WARNING:**Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/ or serious personal injury.

Work Area

- Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.
- Do not operate laser tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Keep children and bystanders away while operating a laser tool.Distractions can cause you to lose control.

Personal Safety

- Stay alert, watch what you are doing and use common sense when operating a laser tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.
- Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection may be required for appropriate conditions.

Tool Use and Care

- Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool, may become hazardous when used on another tool.

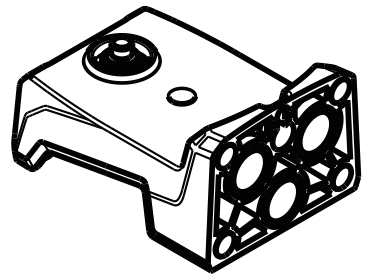
Service

- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

Package Content



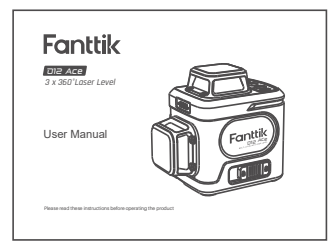
D12 Ace Laser level x 1



Magnet Bracket x 1



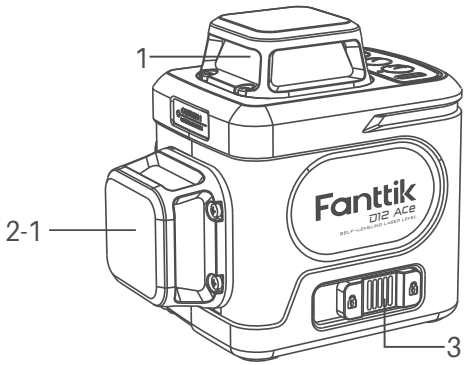
Drawstring Bag x 1



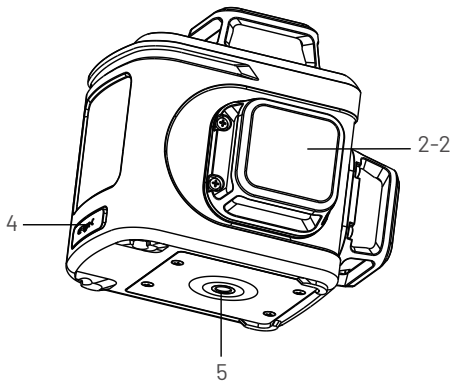
Use Manual x 1

Note: The tripod, charging cable, and laser receiver are not included in the package.

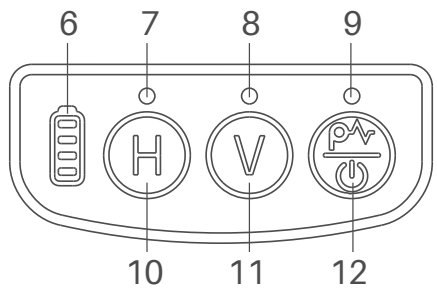
Product Overview



1 - Horizontal Laser outlet
2-1 - Vertical Laser outlet
2-2 - Vertical Laser outlet
3 - Pendulum Lock
4 - Charging Port



5 – Tripod Thread fitting (1/4”-20)
6 – Remaining Energy Indicator
7 – H Plane Indicator
8 – V Plane Indicator
9 – Pulse Indicator



10 – H plane Switch
11 - V plane Switch
12 – Power/Pulse Switch

WARNING:

Never modify the tool or any part of it. Damage to the laser or personal injury could result.

Operation and Function

Part function brief/guide(See figure A)

- **To Turn the Lasers On and Off**

With the laser off (initially, Pendulum lock(3) on locked position), place it on a flat level surface.

Two ways to turn the laser on/off,

- Way one: turn on the laser by pressing Power Switch (12) 0.5s, and shut it off by pressing 2s
- Way two: turn on by pushing the Pendulum Lock(3) to the Unlocked position, Turn off by pushing it back.

Two working mode- Manual and Self-leveling(See Figure B)

Pendulum lock(3) has two position – Locked/Unlock

Locked position:

The laser beam is fixed , rotate the unit to get any angle beam you expected.(see figure D)

Unlock position:

The lasers are designed to self-level. If the laser has been tilted so much that it cannot self-level (> 3°), the laser beam will flash every 0.5s. THE LASER IS NOT LEVEL (OR PLUMB) AND SHOULD NOT BE USED FOR DETERMINING OR MARKING LEVEL

OR PLUMB. Try repositioning the laser on a more level surface.

Switch laser line

- **H key(10)**

  On/off Switch for control Horizontal line, when Horizontal laser light on, the indicator is on, or the
- indicator is off,
- **V key(11)**
- On/off Switch for control Vertical line, when any of Vertical laser light is on, the indicator is on, when both vertical lasers are off, the indicator is off accordingly.

Pulse Mode(See Figure F)

- when laser line is on, Pressing Power Switch (12) 0.5s to Active the pulse function
- Under pulse mode, the unit can match with detector for working at outdoor or in a brighter environment.

Charging tips(See Figure C)

- The machine is integrated with 3.7V lithium battery.
- You can charge machine directly with 5V 2A/1A
- if battery is low or no power to turn on. you should charge machine directly with type C cable,
- The battery indicator will be displayed in flash way during charging process.
- The battery indicator will be displayed as solid after battery is full charged.

Specifications

Light Source	Laser diodes
Laser Wavelength	510-530nm
Laser Power	<1 mw (each beam) CLASS 2
Working Range	100ft(30m) 200ft(60m) with detector
Accuracy (Level):	± 1/8in per 30ft(±3mm per 10m)
Leveling/Compensation Range	±3 °
Power Source	3.7V 4000mAh Li-ion
Working time per full charge	6hr
Operating Temperature	20°F to 115°F (-10°C to 45°C)
Storage Temperature	-5°F to 140°F (-20°C to 60°C)
Humidity	Maximum relative humidity 80% for temperatures up to 88°F (31°C) decreasing linearly to 50% relative humidity at 104°F (40°C)
Environmental	Water & Dust Resistant to IP54

Troubleshooting

The Laser Does Not Turn On

- Make sure the unit have power
- If the laser unit is heated above 120˚F (50˚C), the unit will not turn on. If the laser has been stored in extremely hot temperatures, allow it to cool. The laser level will not be damaged by pressing the on/off button before cooling to its proper operating temperature.

The Laser Beams Flash

The lasers are designed to self-level up to an average of 3° in all directions If the laser is tilted so much that the internal mechanism cannot level itself, the laser beams will flash indicating that the tilt range has been exceeded. THE FLASHING BEAMS CREATED BY THE LASER ARE NOT LEVEL OR PLUMB AND SHOULD NOT BE USED FOR DETERMINING OR MARKING LEVEL OR PLUMB. Try repositioning the laser on a more level surface.

The Laser Beams Will Not Stop Moving

The laser is a precision instrument. Therefore, if it is not positioned on a stable (and motionless) surface, the laser will continue to try to find level. If the beam will not stop moving, try placing the laser on a more

stable surface. Also, try to make sure that the surface is relatively flat,so that the laser is stable.

Warranty Information

This product is covered by a 12-month limited warranty for manufacturing defects.

FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is
encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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