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› DIYtoolifz 4D 16-Line Green Laser Level User Manual

DIYtoolifz 021D0A01

DIYtoolifz 4D 16-Line Green Laser Level User Manual

Model: 021D0A01

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your DIYtoolifz 4D 16-Line Green Laser Level. This device is designed for precision leveling and alignment tasks in construction, home renovation, and various indoor applications. It features a high-visibility green laser, 4x360° coverage, and compatibility with DeWalt 20V batteries.



Figure 1.1: Overview of the DIYtoolifz 4D 16-Line Green Laser Level with key components labeled, including the battery compartment, control panel, power button, and laser lines.

2. SAFETY INFORMATION

Please read and understand all safety warnings and instructions before using this product. Failure to follow these instructions may result in serious injury.

2.1 Laser Safety

- This product is a Class 2 laser product. Do not stare directly into the laser beam.

- Avoid direct eye exposure to the laser beam.
- Do not aim the laser beam at people or animals.
- Do not modify the laser device. Unauthorized modifications may increase the laser radiation emission above Class 2 limits.
- Use the provided laser goggles to enhance visibility, but note they do not protect against direct laser exposure.

2.2 General Safety

- Keep the laser level away from children and unauthorized personnel.
- Ensure the work area is clear of obstructions and potential hazards.
- Do not operate the device in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Protect the device from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1x DIYtoolifz Laser Level Unit
- 1x 39-Inch Foldable Tripod
- 1x Magnetic Bracket
- 1x Metal Plate
- 1x Lifting Platform
- 1x Remote Control
- 1x Laser Target Plate
- 1x Goggles
- 1x Portable Tool Storage Box
- 1x User Manual (this document)

TOOL ONLY

BATTERY



CHARGER



**BATTERY AND CHARGER
NOT INCLUDED**

Figure 3.1: Contents of the DIYtoolifz Laser Level package, including the laser unit, tripod, magnetic bracket, remote control, and other accessories.

4. SETUP

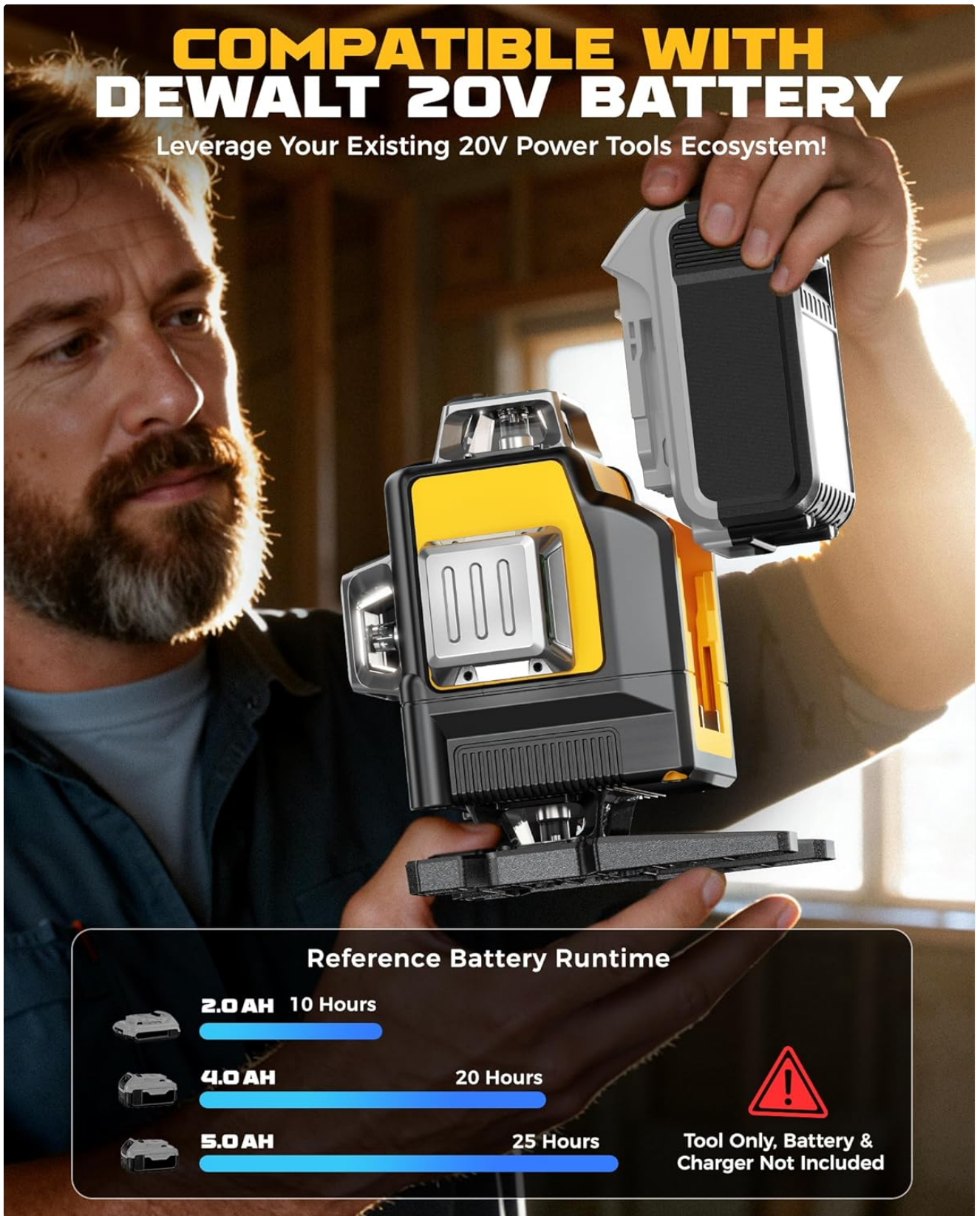
4.1 Power Supply (Battery Installation)

The DIYtoolifz laser level is compatible with DeWalt 20V batteries (battery and charger are NOT included). To install a battery:

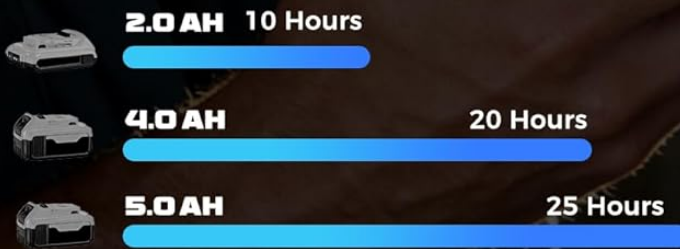
1. Open the battery compartment cover on the side of the laser level.
2. Insert a charged DeWalt 20V battery into the compartment, ensuring proper alignment.
3. Close the battery compartment cover securely.

COMPATIBLE WITH DEWALT 20V BATTERY

Leverage Your Existing 20V Power Tools Ecosystem!



Reference Battery Runtime



Tool Only, Battery & Charger Not Included

Figure 4.1: A user inserting a DeWalt 20V battery into the laser level's battery compartment.



Figure 4.2: Important note: Battery and charger are not included with the laser level.

4.2 Mounting Options

The laser level offers versatile mounting options:

- **Tripod Mounting:** The laser level features a 1/4"-20 standard thread for attachment to the included 39-inch foldable tripod or any standard tripod. When mounting to the tripod, ensure you first attach the threaded adapter (included in the product packaging) to the tripod for proper thread alignment.
- **Magnetic Bracket:** Use the magnetic bracket to attach the laser level to metal studs or frames. The bracket allows for 360° rotation and fine adjustment. For non-metal surfaces, utilize the included metal plate to create a magnetic attachment point.
- **Lifting Platform:** The included mini lifting platform provides additional height adjustment for precise positioning on flat surfaces.

1/4"-20 THREADED MOUNT

Compatible with Most Tripods
(Tripod included in the package)



360° MAGNETIC BRACKET

Accurate Precision Adjustment (Included In The Package)
Fixed To Walls And Planks With Metal Plate
(Included In The Package)

HEIGHT - ADJUSTABLE BASE

Base Height Is Adjustable



Figure 4.3: Various mounting methods: tripod, magnetic bracket, and height-adjustable lifting platform.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Press the power button on the control panel to turn the laser level on or off.

5.2 Self-Leveling Mode

When powered on, the laser level automatically enters self-leveling mode. It will self-level within a $\pm 3^\circ$ tilt range. If the device

is placed on a surface exceeding this range, it will emit an audible alarm (beep) to indicate it cannot self-level. Adjust the device's position until the alarm stops and the laser lines stabilize.



Figure 5.1: The laser level automatically self-levels within $\pm 3^\circ$ and has an effective working range of up to 164 feet indoors.

5.3 Manual / Slash Mode

To project laser lines at any angle (e.g., for stair railings or decorative patterns), activate Manual/Slash Mode:

- Long-press the middle button (Vertical Line 1 control) on the control panel.
- In this mode, the self-leveling function and the tilt alarm will be turned off.

5.4 Laser Flash Mode

To boost line visibility for quick tracking and alignment:

- Long-press the 'A' button (Horizontal Line control) on the control panel to activate or deactivate the laser flash mode.

5.5 Line Control and Remote Operation

The laser level projects 16 lines across two horizontal and two vertical planes, creating a 4D workspace. Each laser line can be controlled independently using the buttons on the control panel or the included remote control.

- **Control Panel Buttons:**

- Button A: Horizontal Line Control (Long-press for Laser Flash Mode)
- Button B: Vertical Line 2 Control
- Button C: Vertical Line 1 Control (Long-press for Manual/Slash Mode)

- **Remote Control:** The remote control allows you to switch laser line modes remotely without needing to be near the device, enhancing flexibility and efficiency.

EASY TO OPERATE

Each Laser Line Can Be Controlled Independently,
Allowing For Multiple Operating Modes.



Figure 5.2: Examples of various operating modes and laser line combinations for different applications.



WIDELY APPLICABLE

Remote Control (Included In The Package)



Figure 5.3: The included remote control allows for convenient operation from a distance.

5.6 Applications

The 4D 16-line laser level is suitable for a wide range of tasks:

- Picture hanging and wall decor alignment.
- Floor and wall tiling.
- Cabinet installation.
- Framing and drywall installation.

- General construction and renovation projects.

Your browser does not support the video tag.

Video 5.1: Demonstration of the 4D 16-Line Laser Level in various applications, showcasing its remote control functionality and multiple line projections.

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your laser level.

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the laser apertures are clean and free of dust.
- **Storage:** Store the laser level in its portable tool storage box in a dry, cool place, away from direct sunlight and extreme temperatures. Remove the battery if storing for extended periods.
- **Calibration:** While the device is factory calibrated, regular checks for accuracy are recommended, especially after impacts or prolonged use. Refer to professional calibration services if accuracy issues persist.

7. TROUBLESHOOTING

If you encounter issues with your laser level, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Laser lines are not visible or dim.	Low battery; strong ambient light; dirty laser aperture.	Charge or replace battery; use laser goggles; clean laser aperture; activate Laser Flash Mode.
Device beeps continuously.	Device is outside self-leveling range ($\pm 3^\circ$).	Place the device on a flatter surface or adjust the tripod until the alarm stops.
Laser lines are not level/plumb.	Device is in Manual/Slash Mode; device is damaged.	Ensure device is in self-leveling mode; if problem persists, contact customer support.
Remote control not working.	Remote battery low; obstruction between remote and device.	Replace remote battery; ensure clear line of sight.

If these solutions do not resolve the issue, please contact DIYtoolifz customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	DIYtoolifz
Model Number	021D0A01
Laser Class	Class 2, <1 mW power output
Laser Wavelength	515-532nm (Green Laser)
Laser Beam Type	4D (4x360°, 16 lines)
Leveling / Compensation Range	$\pm 3^\circ$

Feature	Specification
Leveling Method	Self-leveling Mode, Manual Mode
Indoor Projection Distance	Up to 164 FT (optimal within 33 FT for best accuracy)
Mounting Thread	1/4"-20 Standard
Protection Level	IP54 (Waterproof / Dustproof / Shockproof)
Power Source	Compatible with DeWalt 20V Battery (not included)
Material	Alloy Steel, Metal
Item Weight	7 Pounds

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This DIYtoolifz laser level comes with a **24-month warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized repairs, or normal wear and tear.

9.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your DIYtoolifz laser level, please contact our customer support team. Refer to the contact information provided on the product packaging or our official website.