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Tilta WLC-T03-FIZ

Tilta Nucleus-M FIZ Unit Instruction Manual

Model: WLC-T03-FIZ

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1. INTRODUCTION

The Tilta Nucleus-M FIZ Hand Unit is a professional-grade wireless lens control system component designed for precise focus, iris, and zoom adjustments. This unit integrates seamlessly into the Nucleus-M ecosystem, offering robust control and flexibility for various filming and photography applications.

2. PRODUCT OVERVIEW

The Nucleus-M FIZ Hand Unit provides comprehensive control over your camera's lens functions. Its ergonomic design ensures comfortable and precise operation, even during extended use.

- **Enhanced Precision:** Features a high-resolution encoder for smooth and accurate focus adjustments.
- **Extended Wireless Range:** Operates on a 2.4 GHz frequency, providing a reliable connection up to 984 feet.
- **Durable Construction:** Built from high-grade aluminum alloy, stainless steel, ABS plastic, rubber, and rosewood for rigorous use.
- **Versatile Power Options:** Supports both 7.2V and 14.8V external power sources.
- **Customizable User Experience:** Adjustable dampening allows fine-tuning of responsiveness to match shooting style.



Figure 1: Tilta Nucleus-M FIZ Hand Unit for wireless control of Nucleus-M and Nucleus Nano Motors.

3. PACKING LIST

The standard package for the Nucleus-M FIZ Hand Unit includes the following components:

- Nucleus-M FIZ Hand Unit x 1

WIRELESS CONTROL

Of Nucleus M and Nucleus
Nano Motors



Figure 2: The Nucleus-M FIZ Hand Unit and its key product specifications.

4. SPECIFICATIONS

Feature	Detail
Product Dimensions	6.5 x 4.13 x 4.33 inches
Item Weight	1.4 pounds
Model Number	WLC-T03-FIZ
Manufacturer	Tilta
Brand	Tilta
Special Feature	Ergonomic
Color	Mahogany
Max Number of Supported Devices	1
Compatible Devices	Camera

5. SETUP

5.1 Attaching the FIZ Hand Unit

1. Ensure your camera rig is stable and powered off.
2. Mount the Nucleus-M FIZ Hand Unit to your preferred location on the rig using compatible mounting accessories.
3. Connect the FIZ Hand Unit to the Nucleus-M motors (sold separately) via wireless pairing. Refer to the Nucleus-M motor manual for detailed pairing instructions.
4. Attach the appropriate gear rings to your lens's focus, iris, and zoom rings.
5. Align the FIZ Hand Unit's drive gears with the lens gear rings.

PACKING LIST

Nucleus-M FIZ Hand Unit*1



PRODUCT SPECS

Name: Nucleus-M FIZ Unit

Number: WLC-T03-FIZ

Color: Gunmetal gray

Weight: 0.972 lbs

Materials: Aluminum-alloy, stainless steel, ABS plastic, rubber, Brazilian rosewood

Figure 3: The FIZ Hand Unit allows for precise focus via marking discs, A-B limits, and electronic focus marking.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

- Press and hold the power button on the FIZ Hand Unit to turn it on or off.
- The backlit LED display will illuminate upon power-on.

6.2 Calibrating Lenses

- Lenses can be calibrated either automatically or manually.
- For automatic calibration, follow the on-screen prompts on the LED display.
- For manual calibration, adjust the lens to its minimum and maximum focus/iris/zoom points and confirm on the unit.

6.3 Adjusting Focus, Iris, and Zoom

- Use the large, wood-edged focus knob for precise focus control.
- Utilize the responsive zoom joystick for zoom adjustments.
- Adjust the iris wheel for aperture control.

6.4 Setting Soft Stops

- The unit allows setting up to 10 soft stops with vibration alerts for focus pulls.
- Access the soft stop menu via the unit's interface and follow instructions to set your desired A and B points.

6.5 Wireless Run/Stop Functionality

- The FIZ Hand Unit supports wireless run/stop functionality for select cameras.
- This requires separately available cables specific to your camera model.

PRECISE FOCUS

Via Marking Discs,
A-B Limits, and Electronic Focus Marking



Figure 4: The FIZ Hand Unit is run/stop capable via the REC button and optional run/stop cables.

RUN STOP CAPABLE

Via the REC Button and Optional Run Stop Cables



Figure 5: The FIZ Hand Unit offers wireless control of motors up to 1000 feet without an MDR.

6.6 Official Product Video

Video 1: Overview of the Tiltamax Nucleus-M Wireless Lens Control System, demonstrating its features and applications in filmmaking.

7. MAINTENANCE

- Keep the FIZ Hand Unit clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the unit to extreme temperatures or moisture.
- Regularly check all connections and cables for wear and tear.
- Store the unit in its protective case when not in use to prevent damage.

8. TROUBLESHOOTING

8.1 Unit Not Powering On

- Ensure the battery is charged or external power is properly connected.
- Verify the power button is pressed and held for the required duration.

8.2 Loss of Wireless Connection

- Check the transmission range; ensure you are within 984 feet of the motors.

- Verify that both the hand unit and motors are on the same 2.4 GHz channel.
- Minimize interference from other wireless devices in the area.

8.3 Inaccurate Focus/Iris/Zoom Control

- Recalibrate the lenses (automatic or manual).
- Ensure the drive gears are properly engaged with the lens gear rings.
- Check for any physical obstructions or damage to the gears.

9. WARRANTY & SUPPORT

For warranty information and technical support, please refer to the official Tilta website or contact your authorized Tilta dealer. Keep your purchase receipt as proof of purchase for warranty claims.