<LEFT SIDE>   **<REAR SIDE>**   **<RIGHT SIDE>**
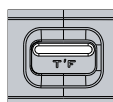
01 1.6-inch Circular Touch Screen
Lens & Camera Data/Parameter Display

02 [REC] Button
01 Single Press: REC Run/Stop Function
02 Long Press 3s: Power On/Off
Long Press 8s: Force Power Off

03 Control Rocker
Control the Assigned Motor

04 [FUNC] Button
01 Set Marks
02 Hold to Calibrate Lens

05 Rotation Limit Switch
Switch TF/DF Mode (TF Mode: Compatible with TILTA Wireless Follow Focus Systems;
DF Mode: Compatible with DJI Follow Focus Systems)

↑ Switch Up to TF Mode (Limits Focus Knob Rotation to 360 Degrees)

↓ Switch Down to DF Mode (Focus Knob can Rotate Freely)

06 NATO Mount
For Mounting the Hand Unit

07 Contact Pins
Communicates with DJI RS2/RS3 Pro

08 Safety Pin
Prevents Accidental Disconnection

09 Tie Down
Lock to Secure the NATO Accessory

10 USB-C Port
For Charging/Firmware Updating

11 Hand Wheel
Rotate to control the Assigned Motor

FEATURES

Circular Touch Screen
Dynamic Interaction/350ppi

USB-C
Supports PD Fast Charging

Built-in High Capacity Battery with Extended Life
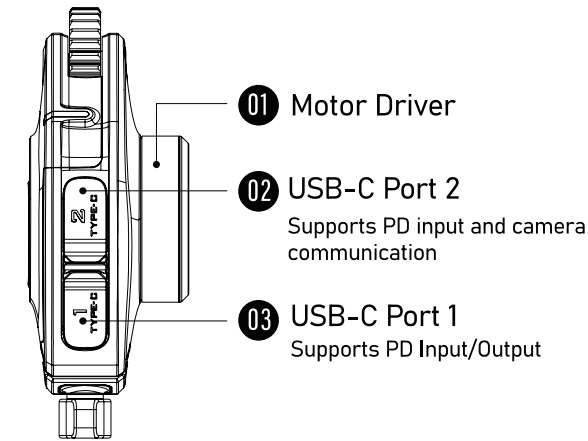Continuous Operation for Over 7 Hours & Smart Standby

TECHNICAL DATA

● Material: Aluminum Alloy+Plastic   ● Dimensions: 73*72*53mm   ● Weight: 175g   ● Color: Black
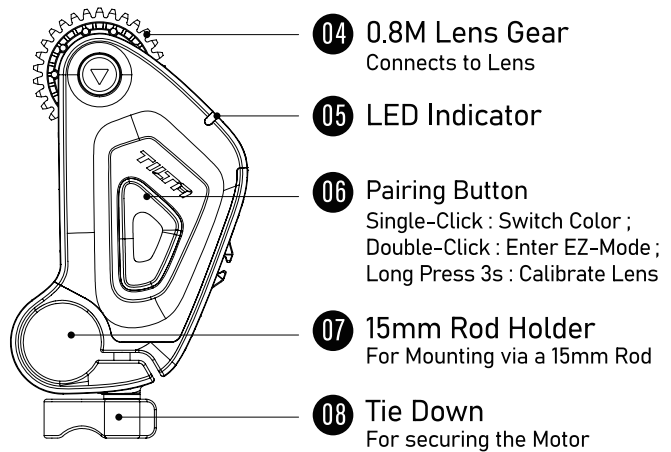
BATTERY USAGE GUIDELINE

Built-in Battery Capacity
3.7V 1800mAh 6.66Wh
(1)Operating Temperature: Charging: 0°Cto 45°C (32°F to 113°F) ; Discharging: -10°Cto 60°C (14°F to 140°F)
(2)Storage Temperature: -5°C to 45°C (23°F to 113°F)
(3)Operating Humidity: 45±20% (Recommended)
(4)Warranty Period: 12 months and less than 500 charge cycles

01 Motor Driver

02 USB-C Port 2
Supports PD input and camera communication

03 USB-C Port 1
Supports PD Input/Output

<LEFT SIDE>

04 0.8M Lens Gear
Connects to Lens

05 LED Indicator

06 Pairing Button
Single-Click : Switch Color ;
Double-Click : Enter EZ-Mode ;
Long Press 3s : Calibrate Lens

07 15mm Rod Holder
For Mounting via a 15mm Rod

08 Tie Down
For securing the Motor

<REAR SIDE>

TECHNICAL DATA

- Material: Aluminum Alloy+Plastic
- Dimensions: 83*46*31mm
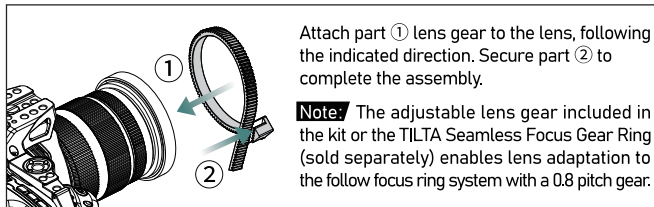- Weight:80g
- Color: Black

INDICATOR LIGHT

○ **White**: Motor is not assigned to any function

After pairing is complete, the motor will display the following colors according to the handwheel settings to distinguish which motor corresponds to which hand unit control option.

- Purple: Focus
- Green: Iris
- Blue: Zoom
- Yellow: Other

ATTACHING MOTOR TO LENS

(1) Attaching Lens Gears

Attach part ① lens gear to the lens, following the indicated direction. Secure part ② to complete the assembly.

Note: The adjustable lens gear included in the kit or the TILTA Seamless Focus Gear Ring (sold separately) enables lens adaptation to the follow focus ring system with a 0.8 pitch gear.
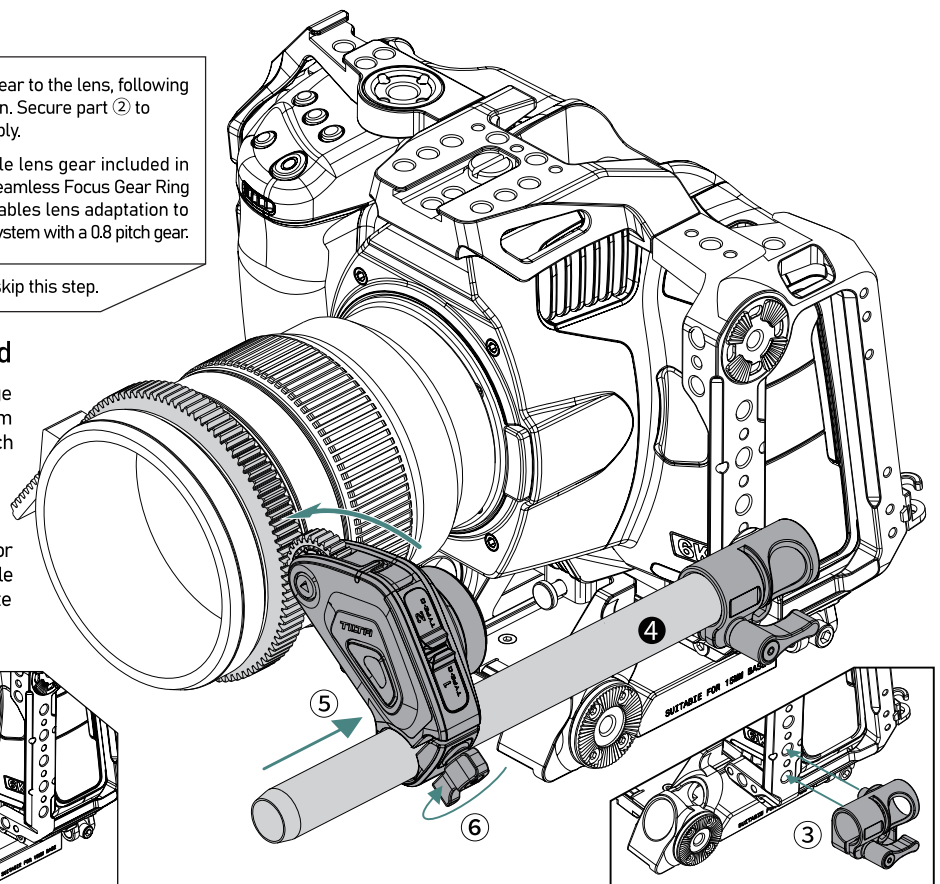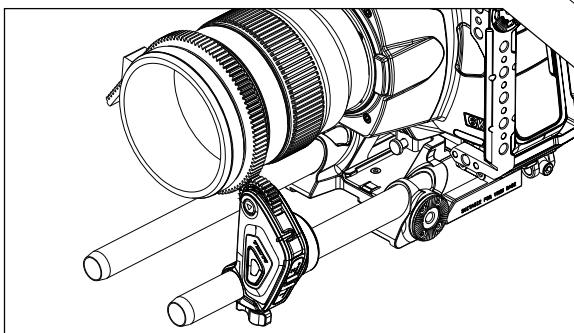
Note: If the lens comes with a 0.8 module gear ring, skip this step.

(2) Attaching Rod Holder & 15mm Rod

Attach the ③ rod holder to the 1/4" thread on the cage side arm, and tighten the screw. Then, secure the 15mm rod ④ to the rod holder, which will be used to attach the motor.

(3) Attaching Motor

Mount the ⑤ motor onto the 15mm rod, adjust the motor angle, and then engage the M0.8 gear with the adjustable lens gear and then tighten the tie down ⑥ to complete the assembly.
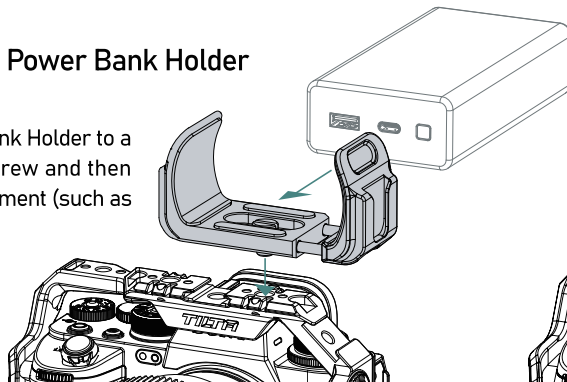
Note: The kit includes a 15mm Rod Holder to 1/4"-20 Adapter (side-mounted) and a 15mm rod. If needed, you can purchase additional TILTA Rod Holder Accessories for motor attaching, as shown in the image on the left.

MOTOR POWERING GUIDLINE

You can use TILTA's Universal Power Bank Holder or F970 Battery Plate V2 (sold separately) for supporting various power options, in order to supply power to the focus motor via the USB-C port (PD protocol).
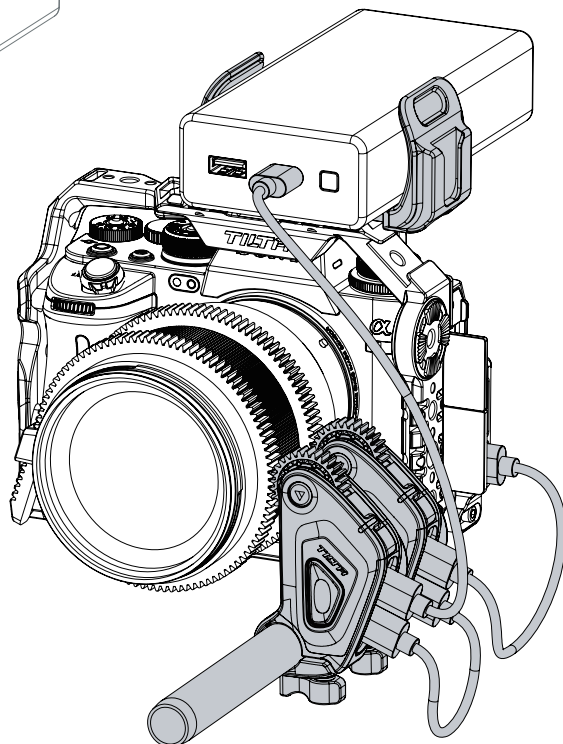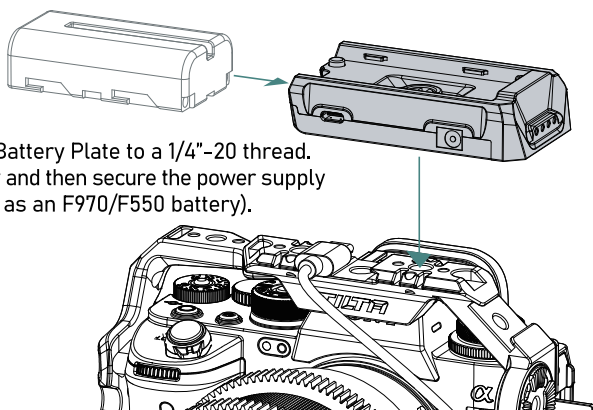
Attaching the Universal Power Bank Holder (TA-UPBH-B)

Attach the Universal Power Bank Holder to a 1/4"-20 thread. Tighten the screw and then secure the power supply equipment (such as a power bank).

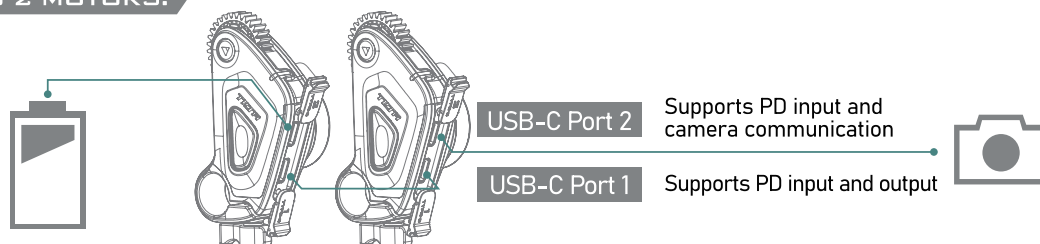### Attaching the F970 Battery Plate V2 (TA-BTP2-F970-B)

Attach the F970 Battery Plate to a 1/4"-20 thread. Tighten the screw and then secure the power supply equipment (such as an F970/F550 battery).
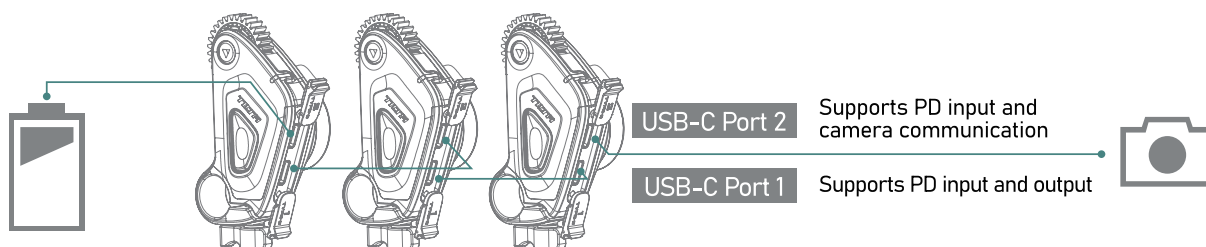
POWERING MULTIPLE MOTORS

When using multiple motors simultaneously, you can connect them in series using the USB-C (PD protocol) port for a synchronized power supply. When connecting multiple motors in series, use Port 2 input to Port 1 output; for the last motor, use Port 1 input to Port 2 output, connect the Run/Stop Cable to control the camera.

CONNECTING 2 MOTORS:

USB-C Port 2 — Supports PD input and camera communication

USB-C Port 1 — Supports PD input and output

CONNECTING MULTIPLE MOTORS (≥3):

USB-C Port 2 — Supports PD input and camera communication
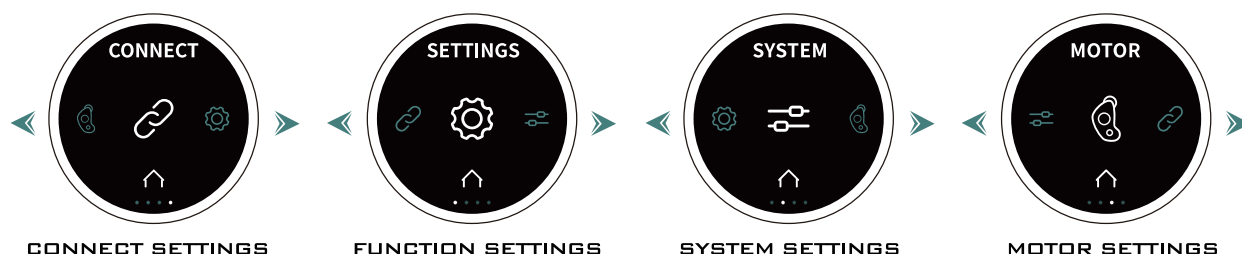
USB-C Port 1 — Supports PD input and output

RUN/STOP CABLE:

Connect one end of the Run/Stop Cable to the motor's USB-C port 2, and the other end to the camera. You can then control the camera's recording functions and settings using the hand unit.

The Nucleus-N II hand unit UI consists of Three Main Screens and Four Settings Menus.
The Three Main Screens include the Camera Control Interface, Motor Parameter Interface, and Focus Distance Interface.
The Four Settings Menus are Connect Settings, Function Settings, System Settings, and Motor Settings.
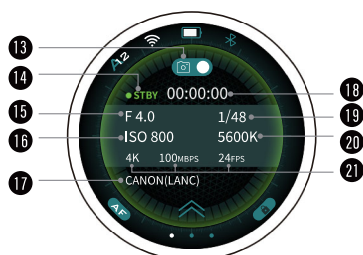
After turning on the device, the hand unit will enter the Motor Parameter Interface. In this interface, swipe left or right on the screen to switch between the Three Main Screens. Swipe up from the bottom of the screen to access the Four Settings Menus. Swipe left or right to select the desired settings menu and tap the center icon to enter the detailed settings interface.

CONNECT	SETTINGS	SYSTEM	MOTOR
CONNECT SETTINGS	FUNCTION SETTINGS	SYSTEM SETTINGS	MOTOR SETTINGS

Swipe up from the bottom

Swipe left from the right

Swipe right from the left

Camera Control Interface- REC

Camera Control Interface- STBY

Motor Parameter Interface

Focus Distance Interface
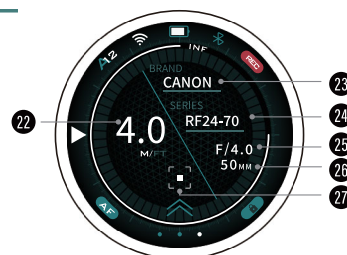
13 Camera Settings Lock Button

14 REC/STBY Indicator

15 Iris Info

16 ISO Info

17 Communication Protocol Info

18 Recording Run Time

19 Shutter Speed Info

20 Color Temperature Info

21 Resolution/Data Rate/ Frame Rate

01 WIFI Status

02 Wireless Channel Indicator
A : Auto Search   M : Manual Search ;
Number : Channel No.

03 Motor Parameter (0-999)

04 Motor Indicator
Focus Indicator/Iris Indicator/Zoom Indicator

05 Additional Settings (Swipe Up)

06 AF/MF Switch Button

07 Battery Information

08 Bluetooth Status

09 REC/STBY Indicator

10 Focus Knob Range Indicator

11 Set Mark Button (A/B)

12 Touch Screen Lock Button

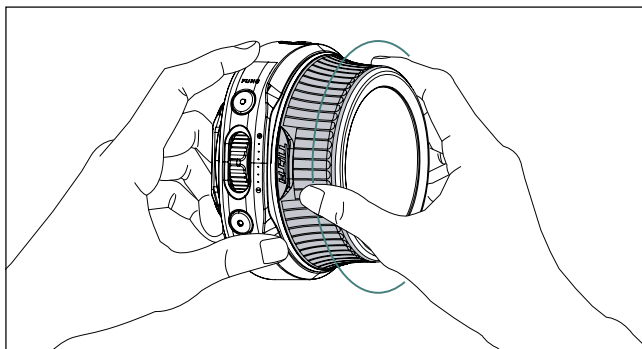22 Focus Distance

23 Lens Manufacturer

24 Lens Model

25 Iris Info

26 Focal Range Info

27 Set Mark Button
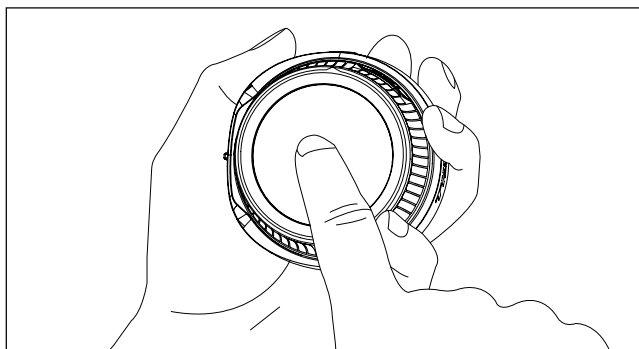
USE INDEPENDENTLY

The Nucleus-N II hand unit can be used independently. The focus motor can be controlled by rotating the handwheel or using the control rocker.

Some camera settings can be controlled through the touch screen.
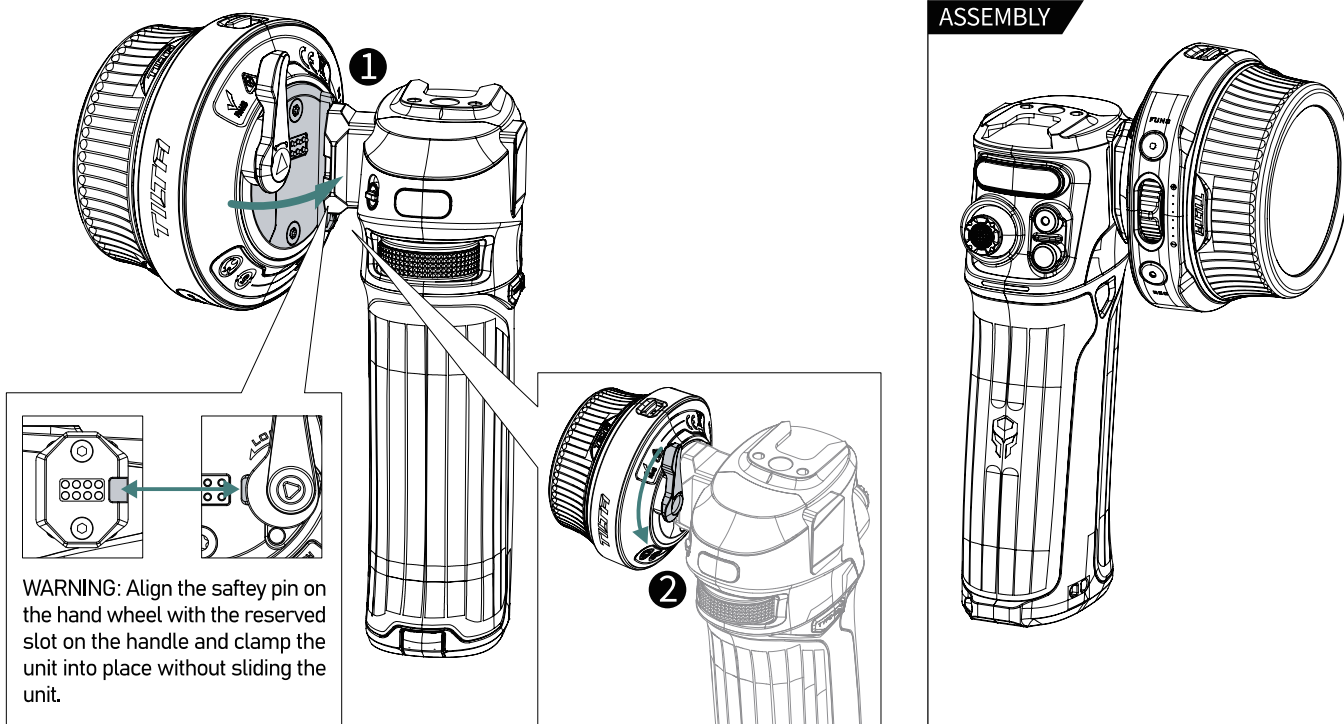
ATTACH TO OTHER ACCESSORIES

The Nucleus-N II hand unit features a standard NATO quick-release mount, allowing it to be attached to any NATO rail.

(such as NATO rail on the side of a camera cage/DJI RS2, RS3 Pro gimbal/rear operating handle for DJI Ronin/ monitor cage, etc..)

Note: When assembling and disassembling, pay attention to the contact pins on the back of the hand unit to prevent damage from external force.

USE WITH THE NUCLEUS NANO II CONTROL HANDLE (as shown below)
Attach the hand unit to the Control handle using the NATO mount, lock the tie down to secure.

❶

❷

ASSEMBLY

WARNING: Align the saftey pin on the hand wheel with the reserved slot on the handle and clamp the unit into place without sliding the unit.

IC CAUTION:

(English)

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) This device may not cause interference, and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

To maintain compliance with RSS-102 RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body. Use only the supplied antenna.

(French)

Le présentappareilestconf orme aux CNR d' Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitationestautorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l' utilisateur de l'appareildoit accepter tout brouillageradioélectriquesubi, mêmesi le brouillageest susceptible d'encompromettre le fonctionnement.

Pour être conforme aux lignes directrices d'exposition RF RSS-102, cet équipement doit être installé et exploité à une distance minimale de 20cm entre le radiateur et votre corps: n'utilisez que l'antenne fournie.

FCC WARNING:

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body. Use only the supplied antenna.

更多操作说明请扫描图中二维码，输入相关产品型号(WLC-T05)，
获取产品电子版说明书。

TILTA

NUCLEUS NANO II WIRELESS LENS CONTROL SYSTEM

For more instructions, please scan the QR code in the image. Enter the model
number WLC-T05 to obtain the electronic version of the product manual.

更多操作说明请扫描图中二维码，输入相关产品型号(WLC-T05)，
获取产品电子版说明书。

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