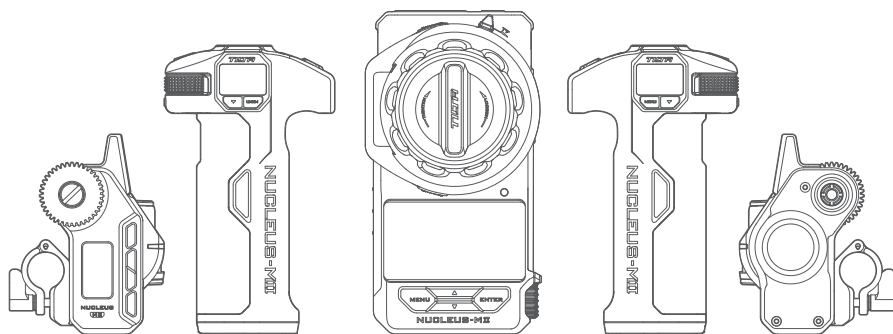


NUCLEUS-MII

WIRELESS LENS CONTROL SYSTEM

TILTA

原力M2-无线跟焦系统



快速上手指南 | QUICK START GUIDE

DISCLAIMER

Thank you for purchasing TILTA products.

Before using this product, please carefully read this document to ensure that the product has been set up correctly. The final interpretation of this document and all related documents for this product belongs to TILTA. For updates, please visit the official website at www.tilta.com for the latest product information. TILTA reserves the right to modify any information in this manual at any time without prior notice and without assuming any responsibility.

By using this product, you are deemed to have carefully read the disclaimer and warnings, understood, agreed, and accepted all the terms and content of this statement. You promise to take full responsibility for the use of this product and any consequences that may arise. You commit to using this product only for legitimate purposes and agree to these terms as well as any related regulations, policies, and guidelines set by TILTA.

TILTA is not responsible for any damages, injuries, or legal liabilities caused directly or indirectly by the use of this product. Users should follow all safety guidelines mentioned in this document, including but not limited to those mentioned.

Despite the above provisions, consumer rights are still protected by local laws and regulations and are not affected by this disclaimer.

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WARNING AND PRECAUTION

I. Installation and Connection

1. Installation Environment

Install the device in a dry, well-ventilated area. Avoid direct sunlight, high temperatures, humidity, and dusty environments.

2. Battery Usage Guidelines

This product is only compatible with the standard F550 battery (specifications: NP-F550, voltage: 7.4V, dimensions: 71×38.5×21mm). The use of any other type of F550 battery is strictly prohibited.

3. Connection Guidelines

Ensure all connections between the camera, lens, and follow focus are compatible and secure. Do not use excessive force to avoid damaging the ports.

II. Maintenance and Care

1. Cleaning

Use a dry, soft, lint-free cloth to regularly clean the device surface. Do not use alcohol, solvents, or corrosive cleaners. Use compressed air to clean small particles from gear contact areas.

2. Inspection

Check gears and other components regularly for wear. Replace worn parts promptly by contacting customer support.

3. Storage

If the device will not be used for a long time, disconnect the power, remove the battery, and store it in its original box or a moisture-proof case. Power on the device every three months to prevent moisture damage and aging.

III. Safety Precautions

1. Prohibited Actions

- Do not disassemble the device. It contains precision electronic components, and unauthorized disassembly may result in damage or risk of electric shock.
- Do not manually rotate the lens focus ring while the device is operating, as this may cause mechanical jamming or motor overload.

2. Emergency Handling

If the device emits smoke, a strange odor, or shows signs of electric leakage during use, immediately disconnect the power, move away from the device, and contact professional service personnel. Do not attempt to repair it yourself.

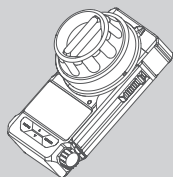
3. Disclaimer

The manufacturer is not responsible for any damage, data loss, or other losses resulting from failure to follow the operating guidelines in this manual.

IV. Common Issues and Solutions

Issue Description	Possible Cause	Solution
Device fails to turn on	Power connection issue or battery is drained.	Check the power cable connection. Replace or recharge the battery.
Follow focus is not precise	Lens range is not calibrated. Signal interference detected.	Recalibrate and move away from interference sources.
Abnormal motor noise	Gear teeth misaligned. Worn components.	Check gear installation and contact customer support to replace worn parts.

Please follow the above precautions carefully. For further questions, contact official customer support or refer to the technical support documents on the product's official website.



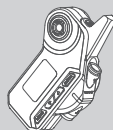
Nucleus-M II FIZ Hand Unit×1



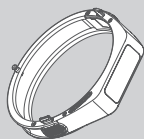
Nucleus-M II Hand Grip (Left)×1



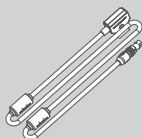
Nucleus-M II Hand Grip (Right)×1



Nucleus-M II Motor×2



Nucleus-M II Electronic Focus Marking Disk×1



P-Tap to 7-Pin Power Cable (70cm)×1



7-Pin to 7-Pin Connection Cable (50cm)×1



7-Pin to 7-Pin Connection Cable (30cm)×1



Nucleus-M II 0.5 Mod Motor Gear×1



Nucleus-M II 0.8 Mod Motor Gear×2



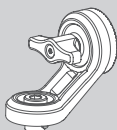
Nucleus-M II Motor Rod Mount (15mm)×2



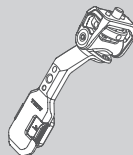
Nucleus-M II Motor Rod Mount (19mm)×2



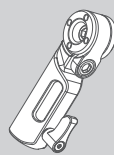
Nucleus-M II Zoom Module for Hand Grip×1



Hand Grip to Arri Standard Rosette Adapter×2



Monitor Mounting Bracket for FIZ Hand Unit×1



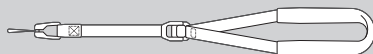
Baby Pin Adapter for Monitor Mounting Bracket×1



Nucleus-M II Follow Focus Marking Disk×5



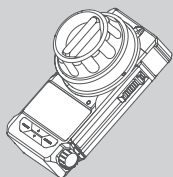
Tilta Universal Focus Gear Ring - Black×2



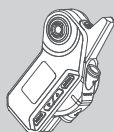
Nucleus-M II FIZ Hand Unit Lanyard×1

PACKING LIST

HAND WHEEL KIT



Nucleus-M II FIZ Hand Unit×1



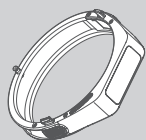
Nucleus-M II Motor×1



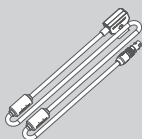
Nucleus-M II Motor Rod Mount (15mm)×1



Nucleus-M II Motor Rod Mount (19mm)×1



Nucleus-M II Electronic Focus Marking Disk×1



P-Tap to 7-Pin Power Cable (70cm)×1



7-Pin to 7-Pin Connection Cable (50cm)×1



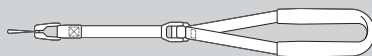
7-Pin to 7-Pin Connection Cable (30cm)×1



Nucleus-M II Follow Focus Marking Disk×5



Tilta Universal Focus Gear Ring - Black×2



Nucleus-M II FIZ Hand Unit Lanyard×1



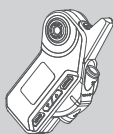
Nucleus-M II 0.8 Mod Motor Gear×1

PACKING LIST

CONTROL HANDLE KIT



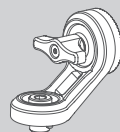
Nucleus-M II
Hand Grip (Right)×1



Nucleus-M II Motor×1



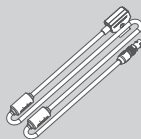
Nucleus-M II Zoom Module
for Hand Grip×1



Hand Grip to Arri Standard
Rosette Adapter×1



Tilta Universal Focus
Gear Ring - Black×2



P-Tap to 7-Pin Power
Cable (70cm)×1



7-Pin to 7-Pin Connection
Cable (50cm)×1



7-Pin to 7-Pin Connection
Cable (30cm)×1



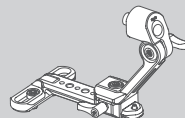
Nucleus-M II
0.8 Mod Motor Gear×1



Nucleus-M II Motor
Rod Mount (15mm)×1



Nucleus-M II Motor
Rod Mount (19mm)×1



Nucleus-M II Top Handle
Adapter for Hand Grip×1

PRODUCT SPECIFICATIONS

Ultimate Kit

SKU: WLC-T06	PACKAGE WEIGHT: 3810g	PACKAGE DIMENSIONS: 335*150*290mm
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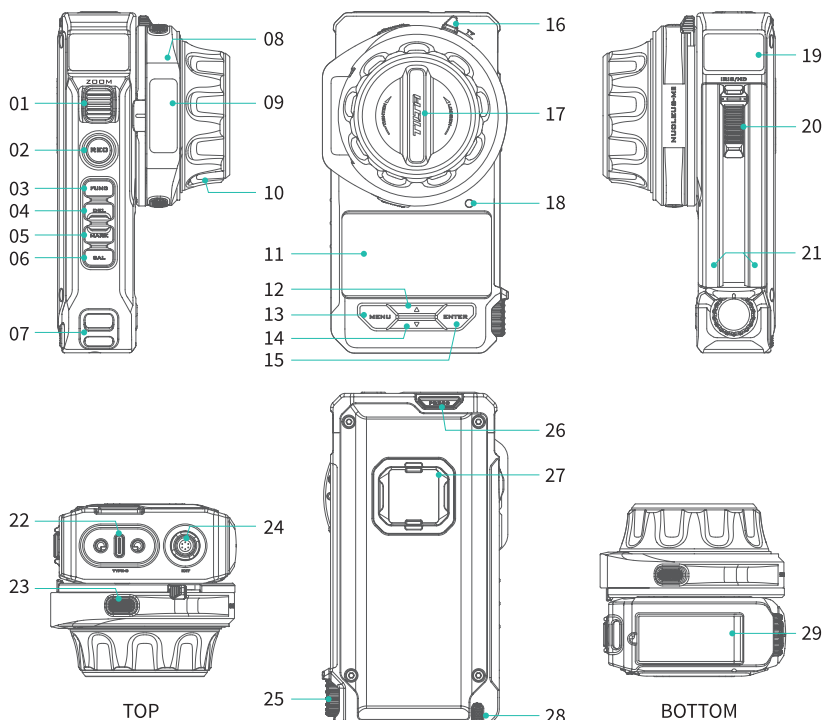
Hand Wheel Kit

SKU: WLC-T06-K1	PACKAGE WEIGHT: 1600g	PACKAGE DIMENSIONS: 285*135*221mm
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Control Handle Kit

SKU: WLC-T06-K2	PACKAGE WEIGHT: 1430.5g	PACKAGE DIMENSIONS: 285*135*221mm
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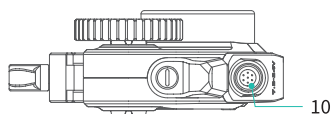
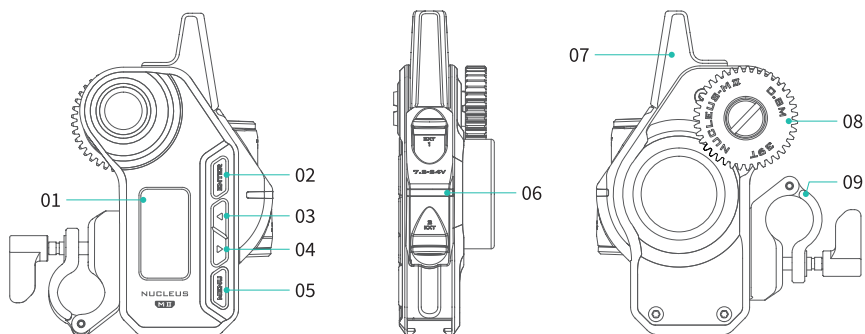
HAND UNIT	SKU	WLC-T06-FIZ
	COLOR	Dark Gunmetal Gray
	WEIGHT	486.6g
	DIMENSIONS	147.5×77.5×78.6mm
	INPUT VOLTAGE	7.2~24V DC
	OUTPUT VOLTAGE	5~12V DC
	OPERATING	-20°C~+50°C
MOTOR	SKU	WLC-T06-MK
	COLOR	Dark Gunmetal Gray
	WEIGHT	155.2g
	DIMENSIONS	101.7×65×31.7mm
	NOISE LEVEL	15db
	MOD GEAR	0.5 Mod, 63 Teeth; 0.8 Mod, 39 Teeth
	INPUT VOLTAGE	7.2~24V DC
	OUTPUT VOLTAGE	7.2~24V DC
	OPERATING	-20°C~+50°C
HAND GRIPS	SKU	WLC-T06-HG-L (left) WLC-T06-HG-R (right)
	COLOR	Dark Gunmetal Gray
	WEIGHT	226.3g 240.8g (ZOOM module included)
	DIMENSIONS	147.5×87×34.3mm 147.5×87×59.6mm (ZOOM module included)
	INPUT VOLTAGE	7.2~24V DC
	OUTPUT VOLTAGE	6~8.4V DC
	OPERATING	-20°C~+50°C



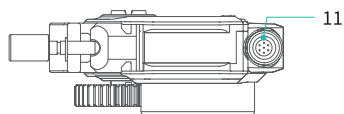
- 01** Zoom Rocker
Controls motor. (Set motor to motor ID: Z)
- 02** Record Button
- 03** Function Button
- 04** Delete Button
Delete focus marks and zoom range
- 05** Mark Button
Set focus marks and zoom range
- 06** Calibrate Button
Press and hold to calibrate the lens
- 07** Lanyard Mount
- 08** Electronic Focus Marking Disk
- 09** Electronic Focus Disk Display
Displays focus information
- 10** Focus Hand Wheel
Controls motor. (Set motor to motor ID: F)

- 11** LED Display
- 12** Up Button ▲
- 13** Menu Button
Single click to enter menu
- 14** Down Button ▼
- 15** Enter Button
- 16** TF/DF Switch
Switch between TF/DF
DF: Hand Wheel rotates freely
TF: Tilt Focus mode, Hand Wheel rotation is limited to less than 360°
- 17** Focus Wheel Damping Adjustment
- 18** Light Sensor
Senses the ambient light levels and adjusts the brightness of the buttons and hand wheel.
- 19** Iris Display
Displays iris information

- 20** Slider
Controls motor. (Set motor to motor ID: I)
- 21** Iris LED
- 22** USB-C Port
For charging, external power supply, firmware updates, and data transfer.
- 23** Electronic Focus Disc Release
- 24** EXT Port
- 25** Speed / ND Dial
Controls motor. (Set motor to motor ID: N, or Zoom Rocker speed)
- 26** USB-C Port Release Button
For connecting expansion modules
- 27** Hand Wheel Mounting Port
For mounting the hand wheel and accessories
- 28** Battery Release Button
- 29** Battery Compartment Cover



TOP



BOTTOM

01 LED Display

02 Enter Button

03 Up Button ▲

Go to the previous page / channel up

04 Down Button ▼

Go to the next page / channel down

05 Menu Button

Single click to enter the menu

06 Status Indicator

07 Antenna

08 0.8 Mod Motor Gear

Engages with the lens's gear ring

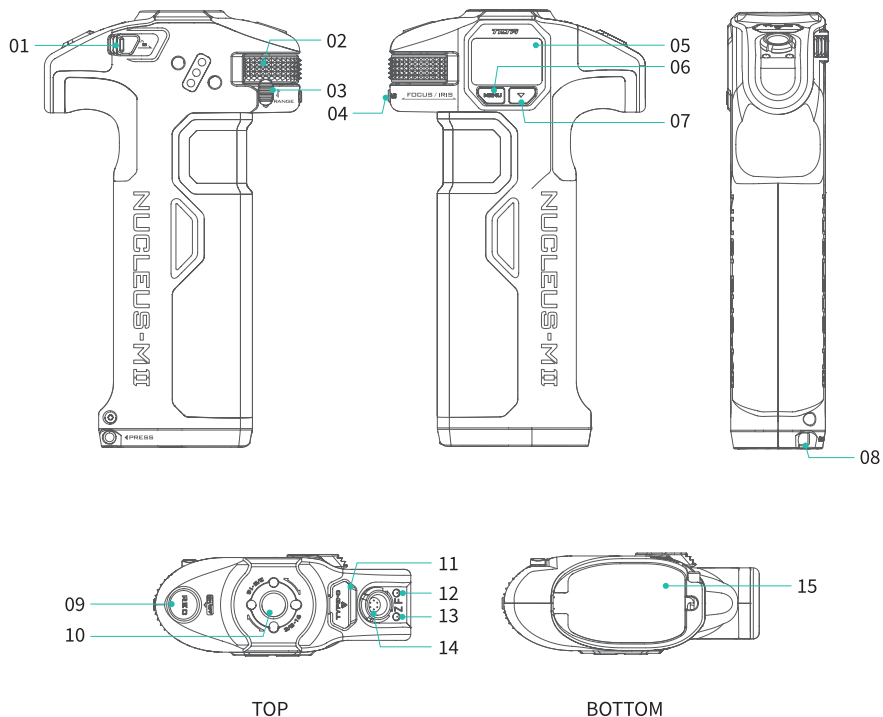
09 15/19mm Rod Mount

10 EXT Port 1

Power input, communication input and output

11 EXT Port 2

Power input, communication input and output



01 Zoom Module Release Button

02 Finger Knob

03 Knob Range Switch
Switch between three settings

04 A/B Point Button

05 LED Display
Displays information

06 Menu Button / Up Button
Double click to enter the menu
Use as an up selection button when in the menu page.

07 Down Button ▼
Go to the next page

08 Battery Compartment Release

09 Record Button

10 3/8" -16 Thread with Locating Points

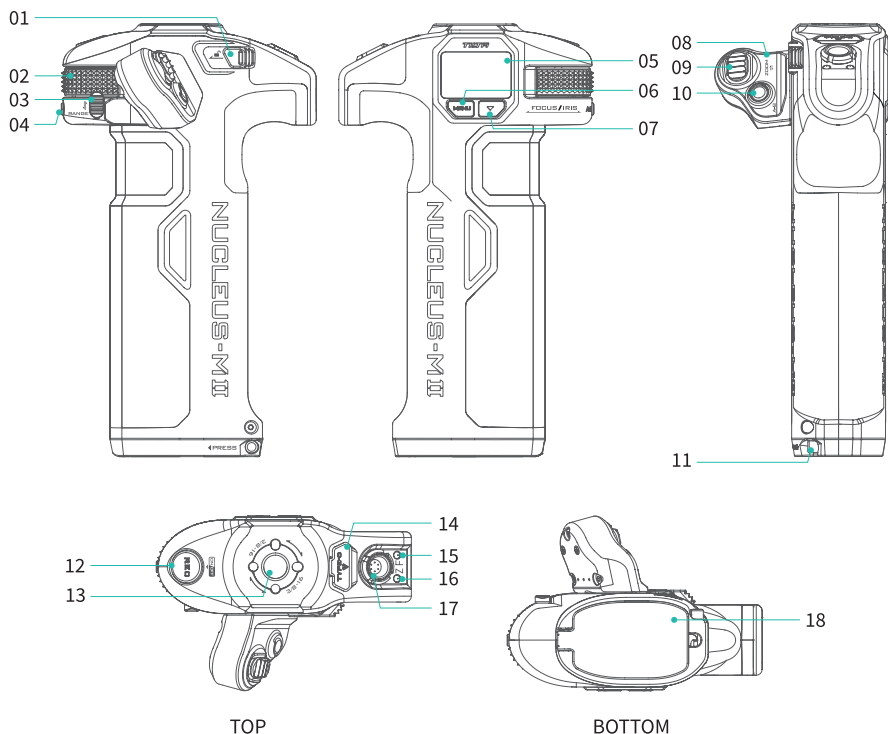
11 USB-C Port
For charging, firmware updates.

12 Focus Range Indicator

13 Zoom Range Indicator

14 Power and Communication Port
For connecting a control cable

15 Battery Compartment Cover



01 Zoom Module Release Button

02 Finger Knob

03 Knob Range Switch
Switch between three settings

04 A/B Point Button

05 LED Display

06 Menu Button / Up Button
Double click to enter the menu
Use as an up selection button when in the menu page.

07 Down Button ▼

08 Zoom Module
For zoom motor control

09 Zoom Rocker

10 Zoom A/B Point Button

11 Battery Compartment Release

12 Record Button

13 3/8 " -16 Thread with Locating Points

14 USB-C Port
For charging, firmware updates.

15 Focus Range Indicator

16 Zoom Range Indicator

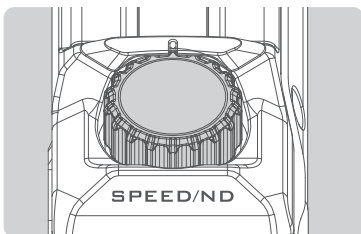
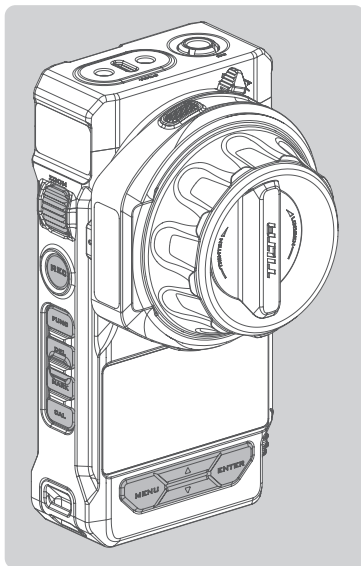
17 Power and Communication Port
For connecting a control cable

18 Battery Compartment Cover

SHORTCUT OVERVIEW

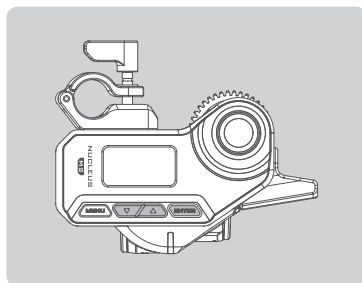
FIZ Hand Unit

- 01 Double click the Up Button "▲" to enlarge the scale of the Electronic Focus Marking Disk. (Only works on the main menu.)
- 02 Double click the Down Button "▼" to reduce the scale of the Electronic Focus Marking Disk. (Only works on the main menu.)
- 03 Press the Up "▲" and the Down buttons "▼" at the same time and hold for 3 second to enter EZ pairing mode.
- 04 Hold the Up Button "▲" and push the Zoom Rocker "ZOOM" at the same time. It will provide maximum zoom speed.
- 05 Hold the Down Button "▼" and push the Zoom Rocker "ZOOM" at the same time. It will provide minimum zoom speed.
- 06 Press and hold the MENU Button "MENU" to return to the main menu.
- 07 Press and hold the ENTER Button "ENTER" to turn on/off motor light. (Only works on the main menu.)
- 08 Single click the REC Button "REC" to return to the main menu. (Only works when not on the main menu.)
- 09 Press and hold the REC Button for 3 seconds, "REC" the unit will power off.
- 10 Press and hold the REC Button "REC", release, then double click the REC Button "REC", the unit will power off immediately.
- 11 Press and hold the FUNC Button "FUNC" to lock the touchscreen and buttons.
- 12 Double click the FUNC Button "FUNC" to switch between active and inactive modes.
- 13 Double click the MARK Button "MARK" to set a focus mark.
- 14 Press and hold the MARK Button "MARK" until the unit vibrates. Rotate the hand wheel to set the RANGE.
- 15 Double click the DEL Button "DEL" to delete the most recent MARK. Press and hold "DEL" to delete the RANGE.
- 16 Press and hold the CAL Button "CAL" to initiate automatic calibration.
- 17 Press and hold the SPEED/ND Dial "SPEED/ND" to toggle the speed setting for the Zoom Rocker.



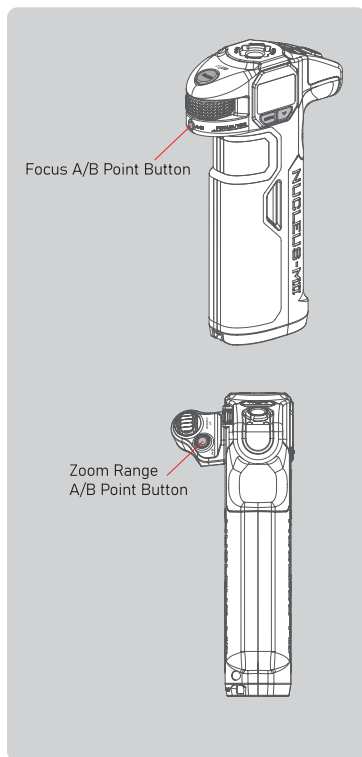
Motor

- 01 Press the Up Button " " and the Down Button " " at the same time and hold for 3 seconds to enter EZ pairing mode.
- 02 Double click the Up Button " " or the Down Button " " to select the wireless channel.
- 03 Press and hold the Down Button " " to initiate automatic calibration.
- 04 Double click the ENTER Button " " to select a motor number.



Hand Grips

- 01 Press the MENU Button " " and the Down button " " at the same time and hold for 3 seconds to enter EZ pairing mode.
- 02 Press and hold the REC Button " " for 3 seconds, the unit will turn off.
- 03 Double click the MENU Button " " to enter the menu. Single click the REC Button " " to return to the main menu.
- 04 Press and hold the Focus A/B Point Button " " to enter "Wireless Channel Settings".
- 05 Press and hold the Zoom Range A/B Point Button " " (on the ZOOM Module) to enter "Zoom Rocker Settings".



Mounting the Motor

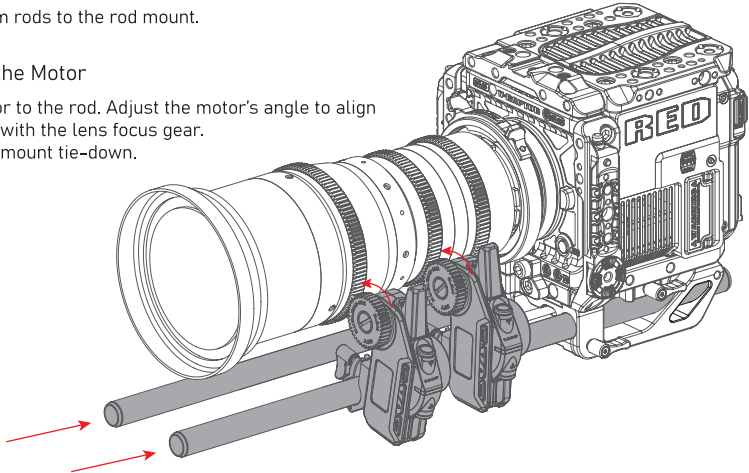
As shown below, we are using a cinema lens as an example.

(1) Mounting the 15mm Rods

Attach the 15mm rods to the rod mount.

(2) Mounting the Motor

Attach the motor to the rod. Adjust the motor's angle to align the motor gear with the lens focus gear. Tighten the rod mount tie-down.



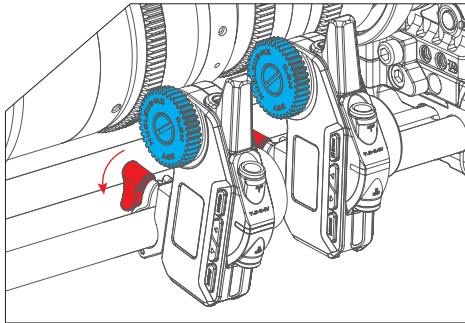
The motor includes 15mm and 19mm rod mounts, compatible with 15mm and 19mm rod systems respectively.



Rod Mount (15mm)

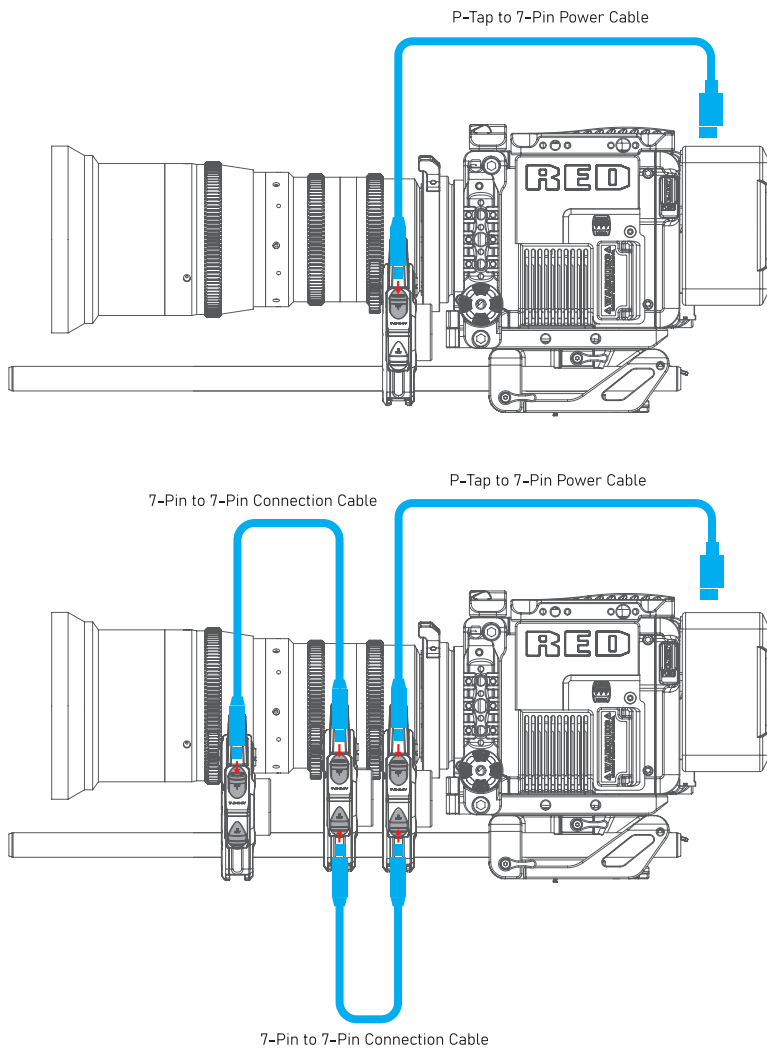


Rod Mount (19mm)



NOTE: Each motor's EXT Port 1 and EXT Port 2 support power input, power output, and camera control functions.

(1)



NOTE: Select either the 30cm straight head or 50cm straight head 7 pin to 7 pin connection cable depending on the motor's position.

(2)

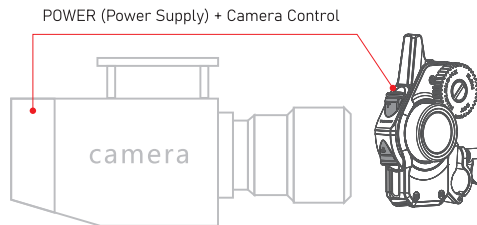
Each motor is capable of interfacing with various camera systems and can communicate directly to the camera or to a camera cage equipped with power output and camera control ports.

For example:

Arri XT-RS Port

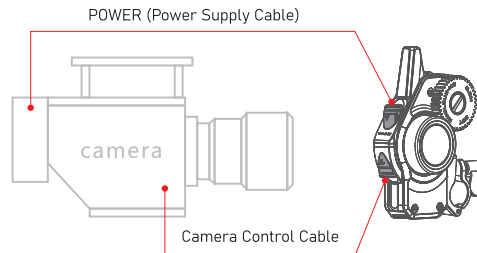
Tilta Camera Cage for Alexa Mini - 14.8V 7-Pin Camera Control Port

Tilta Camera Cage for Red DSMC2 - 14.8V 7-Pin Camera Control Port



For example:

For cameras without integrated camera control and power supply ports, separate cables are required.



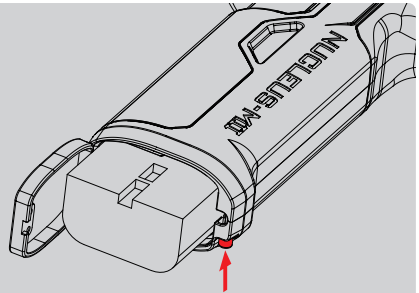
WARNING

Once the motor is connected to a power supply or a camera control port with power capability, do not connect any other power sources to the motor, as it may lead to malfunction or power command errors.

USING THE HAND GRIPS

Installing a Battery in the Hand Grip

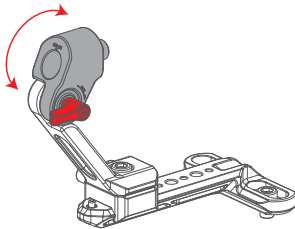
Press the PRESS button to open the battery compartment cover, insert the battery, then close and secure the cover.



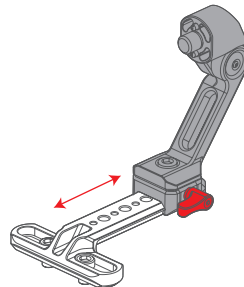
1. Mounting the Hand Grip on the Camera

(1) Mounting the Hand Grip on the Camera Cage via a Top Handle Adapter

Loosen the tie-down and adjust to the desired angle;
Tighten the tie-down.



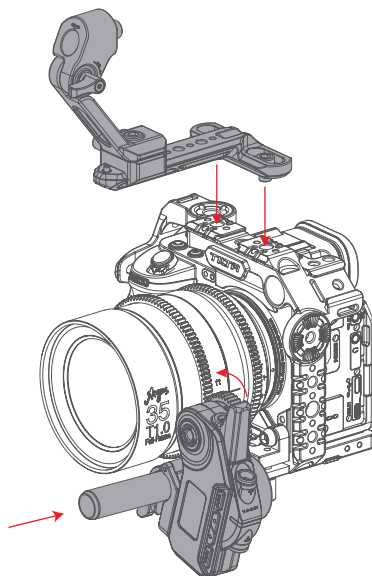
Loosen the tie-down and slide to the desired position;
Tighten the tie-down.



(2) Mounting the Motor

As shown below, we are using a cinema lens on a camera cage as an example.

Attach the motor to the rod. Adjust the motor's angle to align the motor's gear with the lens focus gear. Tighten the rod mount tie-down.

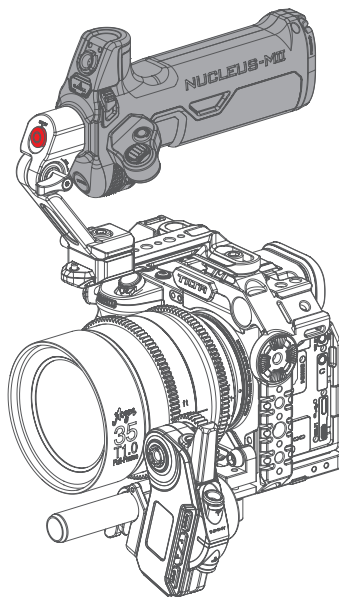
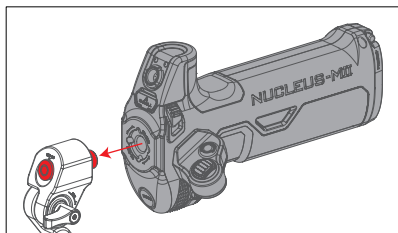


(3) Mounting the Top Handle Adapter

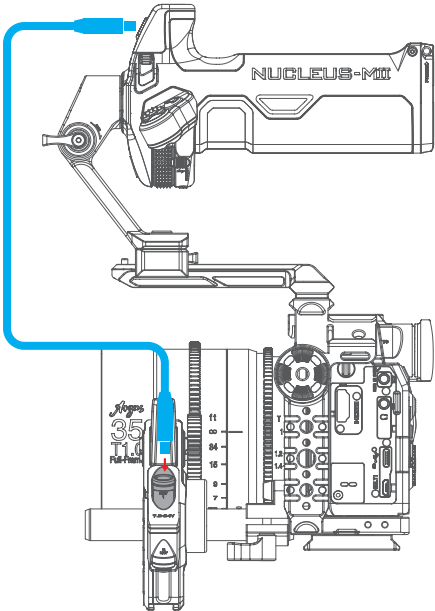
Attach the Top Handle Adapter to the 1/4"-20 threads on top of the camera cage. Tighten the tie-down screws.

(4) Mounting the Hand Grip

Align the Top Handle Adapter's 3/8"-16 screw with the Hand Grip's 3/8"-16 thread. Tighten the tie-down screw.



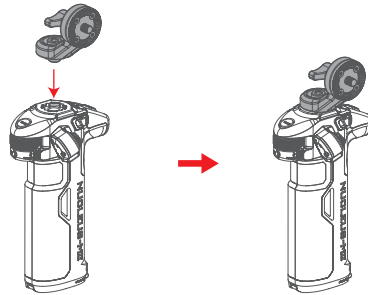
(5) Connect the Hand Grip to the Motor via a 7-Pin to 7-Pin Connection Cable



2. Mounting the Hand Grip on a Shoulder Rig

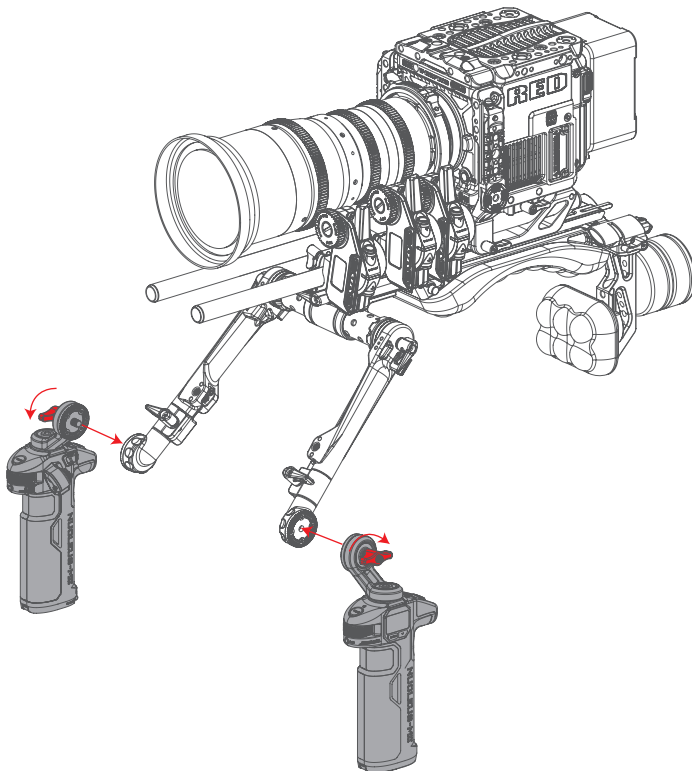
(1) Mounting the Hand Grip to Arri Standard Rosette Adapter

Attach the Hand Grip to Arri Standard Rosette Adapter to the 3/8"-16 screw on top of the Hand Grip. Tighten the tie-down screw.



(2) Mounting the Hand Grips

Attach the Hand Grips to the Arri Standard Rosette Adapters on the shoulder rig's arms. Tighten the tie-down screws.

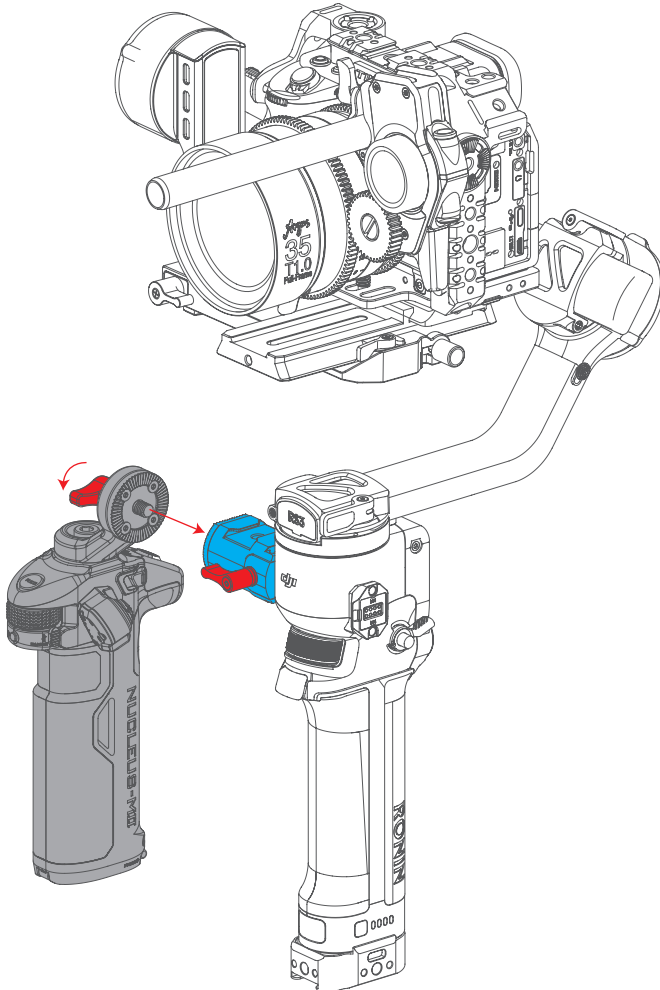


3. Mounting the Hand Grip on a DJI Ronin Gimbal

(1) Mount the NATO Rail to Rosette Adapter (TGA-NRA. Separate purchase required.)

Attach the NATO Rail to Rosette Adapter to the DJI Ronin NATO Module. Tighten the tie-down.

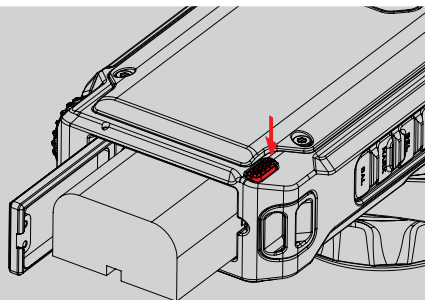
(2) Mount the Hand Grip to rosette via the Hand Grip to Arri Standard Rosette Adapter. Tighten the tie-down.



USING THE HAND UNIT

Installing a Battery in the Hand Unit

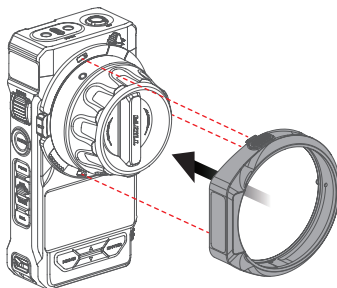
Press the OPEN button to open the battery compartment cover, insert the battery, then close and secure the cover.



Installing the Electronic Focus Marking Disk and Follow Focus Marking Disks

(1) Installing the Electronic Focus Marking Disk

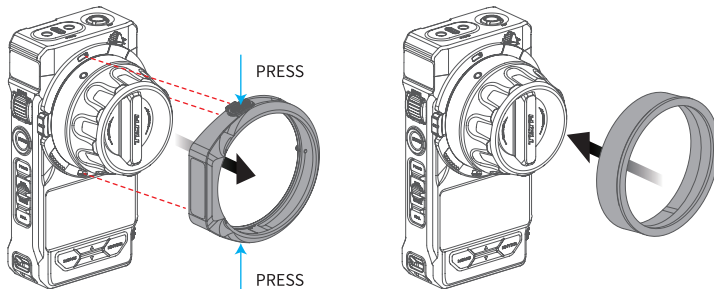
Align the marking disk with the locating points and press it onto the focus wheel. When you hear a 'click' sound, the installation is complete.



(2) Installing Follow Focus Marking Disks

(2.1) Press the release buttons to release the Electronic Focus Marking Disk. Remove the disk.

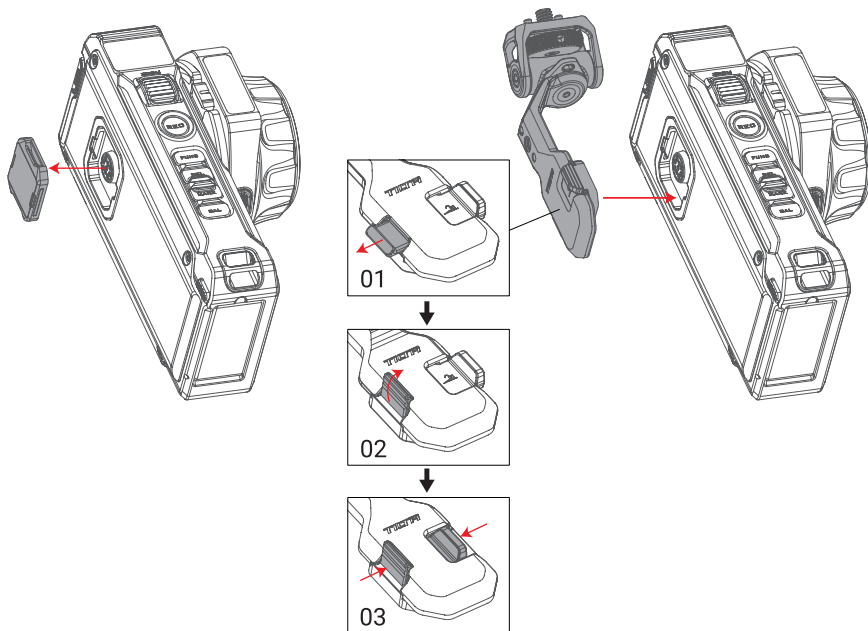
(2.2) Mount the Follow Focus Marking Disk onto the focus wheel.



Using the Hand Unit with a Monitor I.

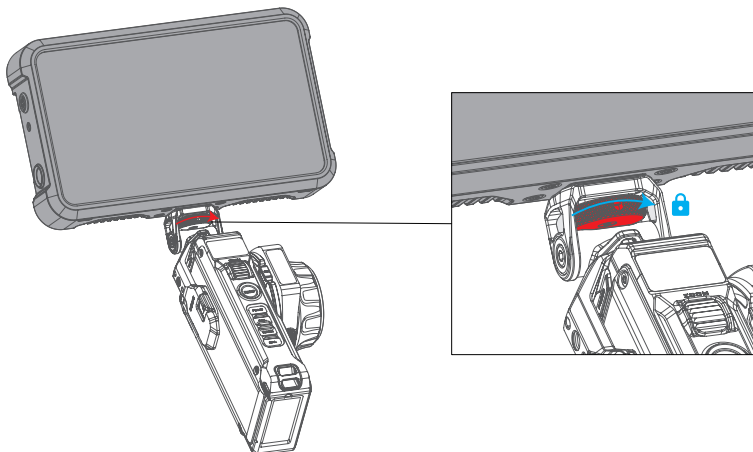
(1) Mounting the Monitor Mounting Bracket

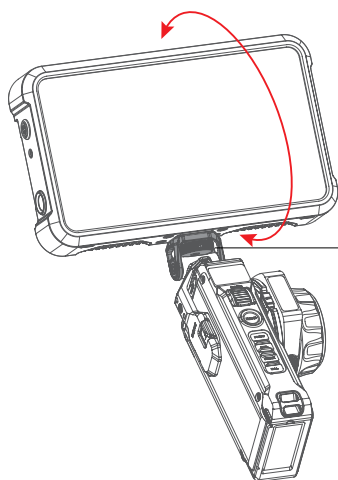
Remove the port protection cover from the Hand Unit. Attach the Monitor Mounting Bracket to the port.



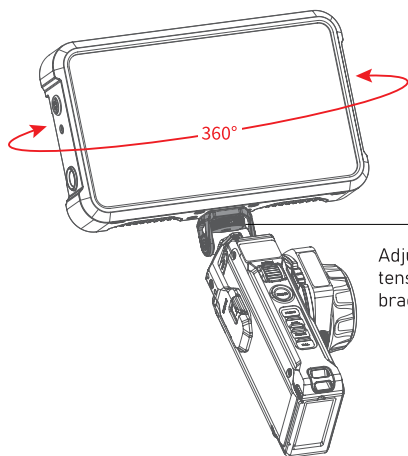
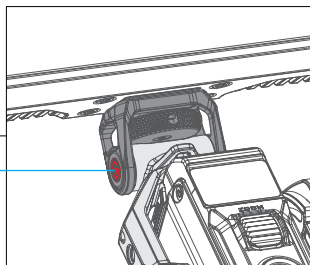
(2) Mounting the Monitor (Separate purchase required.)

Mount the monitor via the 1/4"-20 screw with locating points on the Monitor Mounting Bracket. Tighten the tie-down.

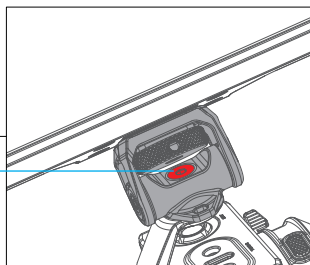




Adjust the screw tension to set the bracket's damping.



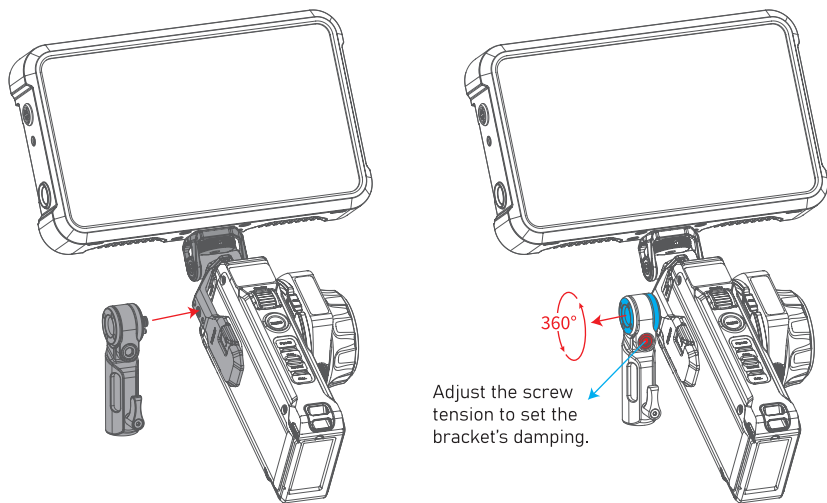
Adjust the screw tension to set the bracket's damping.



Using the Hand Unit with a Monitor II.

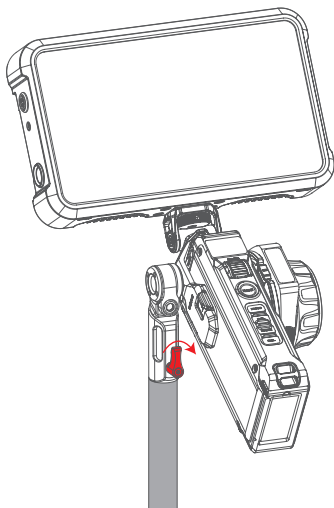
(1) Mounting the Baby Pin Adapter for Monitor Mounting Bracket

Mount the Baby Pin Adapter onto the Monitor Mounting Bracket's 1/4"-20 thread with locating points. Tighten the tie-down screw.



(2) Mounting onto a C-Stand (Separate purchase required)

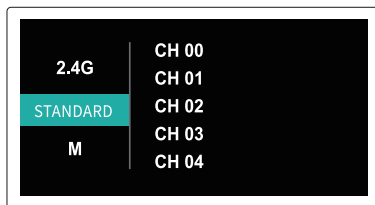
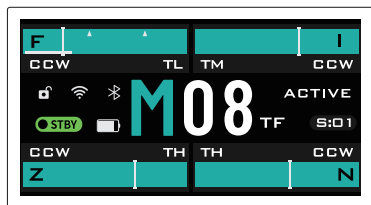
Mount the Baby Pin Adapter for Monitor Mounting Bracket onto a C-Stand. Tighten the tie-down screw to complete the assembly.



QUICK PAIRING

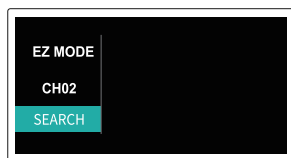
I. Hand Unit - "Standard"

Press and hold **08** (or the current selected channel) to enter Wireless Channel settings. Ensure EZ Mode is used under the 'Standard' protocol setting.

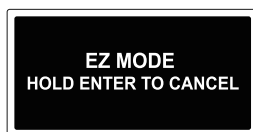


(1) Enter EZ Mode in the Hand Unit, Motor, and Hand Grips

Press and hold [▲] and [▼] buttons on the Hand Unit simultaneously for 3 seconds to enter EZ Mode.



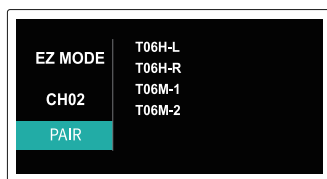
Press and hold [▲] and [▼] buttons on the Motor simultaneously for 3 seconds to enter EZ Mode.



Press and hold [MENU] and [▼] buttons on the left and right Hand Grips simultaneously for 3 seconds to enter EZ Mode.



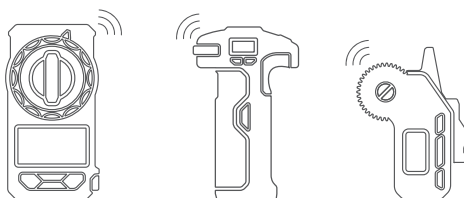
Select "SEARCH" with the Hand Unit. The search results are below.



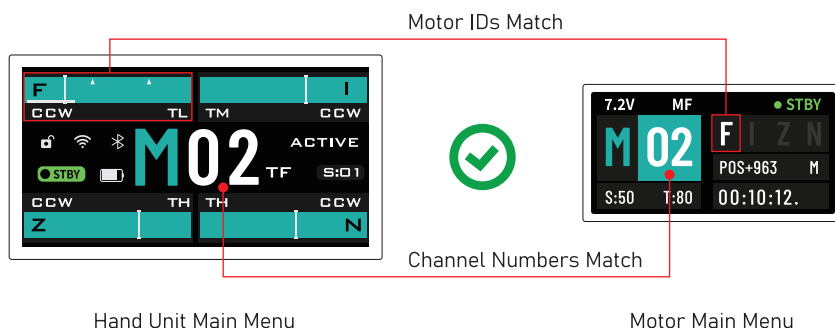
T06H-L and T06H-R represent two hand grips.

T06M-1 and T06M-2 represent two motors.

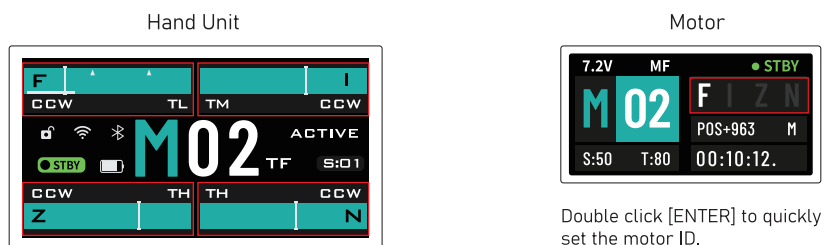
Select "PAIR" with the Hand Unit. It will pair the Hand Unit with the Hand Grips and the Motors. The channel number should match.



NOTE: For control to function properly, the channel number and motor ID on the Hand Unit and the motor must match.



(2) How to Quickly Set the Motor ID on the Hand Unit and Motor



Double click [ENTER] to quickly set the motor ID.

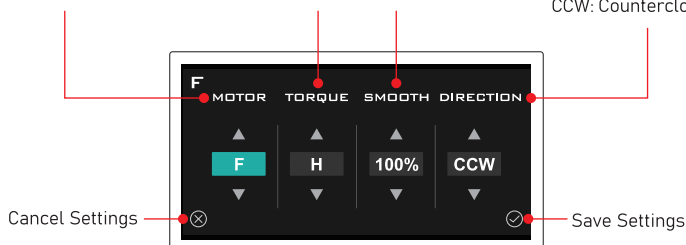
Use the "Follow Focus Wheel Shortcut Menu" as an example, press and hold to open the shortcut menu to set the motor ID, torque, smoothness, and direction.

Motor Number "F"/"I"/"Z"/"N"
"OFF" Disable Motor

Motor Torque
"L"/"M"/"H"

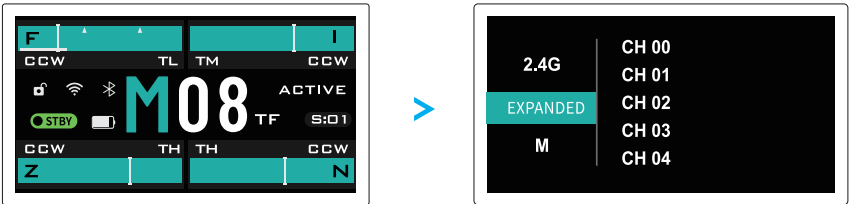
Motor Smoothness
0%-100%

Motor Rotation Direction
CW: Clockwise;
CCW: Counterclockwise



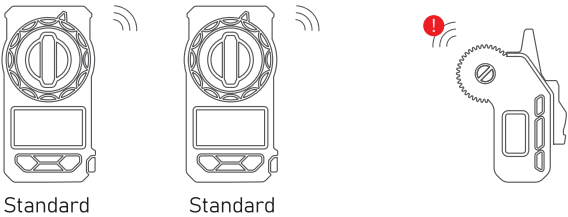
II. Hand Unit - “Expanded”

Press and hold **08** (or the current selected channel) to enter Wireless Channel settings. Switch to “EXPANDED” to perform EZ Mode.



Hand Unit’s “HANDLE EZ EXPANDED MODE”

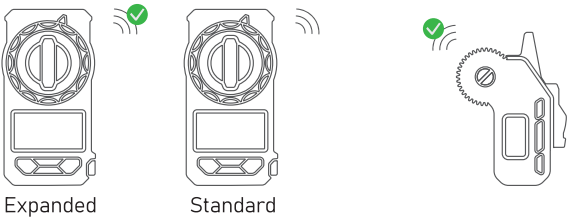
If multiple Hand Units use 'Standard' mode on the same channel to control the same motor, signal interference can cause the motor to malfunction.



SOLUTIONS:

Hand Unit: Set the main Hand Unit to 'Expanded' mode to pair with the motor. In this mode, it has signal priority and blocks inputs from other Hand Units.

Motor: Enter EZ mode to pair with the Hand Unit.



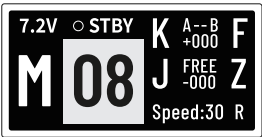
III. Hand Grips

When the Hand Grip is the sole controller of the motor, switch its pairing mode from “EZ MODE” to either “HANDLE EZ STANDARD MODE” or “HANDLE EZ EXPANDED MODE”.



IV. Hand Grips – “HANDLE EZ STANDARD MODE”

Hand Grips: Double click the [MENU] button to enter the menu. Select “PAIRING MODE” to enter the operating page. Single click [MENU] or [♥] buttons to switch to “HANDLE EZ STANDARD MODE”. Single click [REC] button to return to the main menu.



(1) Enter EZ Mode on Hand Grips and Motor

Press and hold the [MENU] button on either the left or right Hand Grip and the [♥] button simultaneously for 3 seconds to enter EZ Mode.

Press and hold [▲] and [♥] buttons on the Motor simultaneously for 3 seconds to enter EZ Mode.



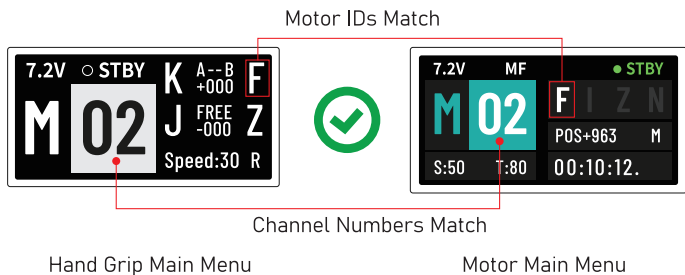
When the desired motor appears in the pairing list on the Hand Grip, press and hold [♥] to start pairing.



T06M * 1 represents one motor.

Successful pairing between the Hand Grip and Motor is indicated by matching channel numbers.

NOTE: For control to function properly, the channel number and motor ID on the Hand Grip and the motor must match.



(2) How to Set the Motor ID on the Hand Grip and Motor

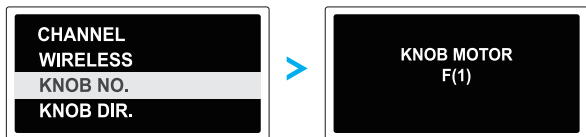
Hand Grip: Double click the [MENU] button from the main menu to enter menu setting.

Single click the [MENU] button and [♥] to move the cursor and browse the twelve settings. Double click to enter the selected setting.

Press and hold the [MENU] button to save the setting and exit the menu.

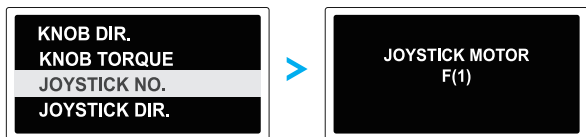
1. Hand Grip: Set the Motor ID for the Focus Knob

Double click the [MENU] button to enter "KNOB NO.". Single click the [MENU] button or the [♥] button to set the motor ID for "F(1)"/"I(2)"/"Z(3)"/"N(4)". Select "OFF" to pause the Hand Grip's control of the motor. Press and hold the [MENU] button to return to the previous page, or single click the [REC] button return to the main menu.



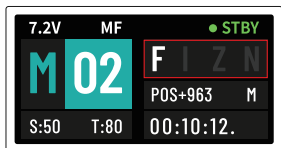
2. Hand Grip: Set the Motor ID for the Zoom Rocker

Double click the [MENU] button to enter "JOYSTICK NO.". Single click the [MENU] button or the [♥] button to set the motor ID for "F(1)"/"I(2)"/"Z(3)"/"N(4)". Select "OFF" to pause the Hand Grip's control of the motor. Press and hold the [MENU] button to return to the previous page, or single click the [REC] button return to the main menu.



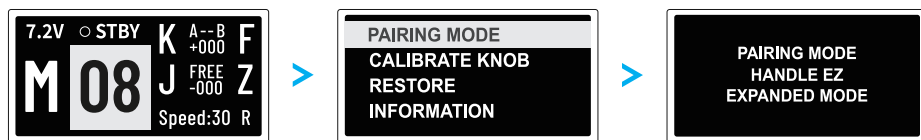
3. Motor: Quickly Set the Motor ID

Motor: Double click the [MENU] button to quickly set the motor ID.



V. Hand Grips-“HANDLE EZ EXPANDED MODE”

Hand Grips: Double click the [MENU] button to enter the menu. Select “PAIRING MODE” to enter the operating page. Single click the [MENU] or [♥] buttons to switch to “HANDLE EZ EXPANDED MODE”. Single click the [REC] button to return to the main menu.



Hand Unit's “HANDLE EZ EXPANDED MODE”

If multiple Hand Grips use “Standard” mode on the same channel to control the same motor, signal interference can cause the motor to malfunction.



SOLUTIONS:

Hand Grip: Set the main Hand Grip to “Expanded” mode to pair with the motor. In this mode, it has signal priority and blocks input from other Hand Grips.

Motor: Enter EZ mode to pair with the Hand Grip.



For a more detailed demonstration and user guide, please refer to the accompanying product video tutorial.



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注意事项

一、设备安装与连接

1.安装环境要求

设备应安装在干燥、通风良好的环境中,避免直接暴露于阳光直射、高温、潮湿或灰尘较多的场所。

2.电池使用注意事项

本产品仅兼容标准F550电池(规格:NP-F550,电压:7.4V,尺寸:71×38.5×21mm),严禁使用其他类型的F550电池。

3.连接操作规范

连接相机、镜头与跟焦器时,确保接口类型匹配,连接牢固但避免过度用力导致接口损坏。

二、设备维护与保养

1.日常清洁

定期使用干燥、柔软的无尘布擦拭设备表面灰尘,避免使用酒精、有机溶剂等腐蚀性清洁剂。对于镜头与跟焦器齿轮接触部位,可使用压缩空气清除细小颗粒杂质。

2.部件检查

定期检查齿轮等各部件的磨损情况,若发现齿轮齿牙磨损,及时联系售后更换。

3.长期存放

设备长时间不使用时,需断开电源,取出电池,将设备存放于原装包装盒或防潮箱内,建议每3个月通电一次,防止电子元件受潮老化。

三、安全注意事项

1.禁止行为

- 严禁私自拆解设备,设备内部包含精密电子元件,非专业人员拆解可能导致设备损坏或触电风险。
- 禁止在设备运行时强行手动转动镜头对焦环,以免造成机械结构卡死或电机过载。

2.紧急情况处理

若设备在使用过程中冒烟、散发异味或出现漏电现象,立即切断电源,远离设备并联系专业维修人员处理,切勿尝试自行修复。

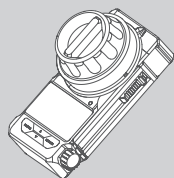
3.责任声明

因未遵循本说明书操作规范导致的设备损坏、数据丢失或其他损失,厂商不承担相关责任。

四、常见故障与解决方法

故障现象	可能原因	解决方法
设备无法开机	电源连接异常、电池电量耗尽	检查电源线连接、更换或充电电池
跟焦不精准	镜头行程未校准、信号干扰	重新校准、远离干扰源
电机异响	齿轮啮合错位、部件磨损	检查齿轮安装、联系售后更换磨损部件

请严格遵守以上注意事项,如有其他疑问,请联系官方客服或查阅产品官网技术支持文档。



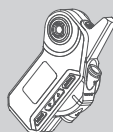
手轮控制器×1



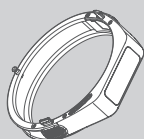
左手柄×1



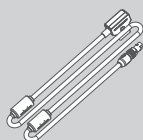
右手柄×1



电机×2



电子白环×1



P-TAP转7芯电源线
(70cm) ×1



7-7PIN连接线
(50cm) ×1



7-7PIN连接线
(30cm) ×1



0.5模数齿轮×1



0.8模数齿轮×2



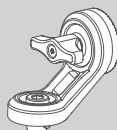
15mm导管适配器×2



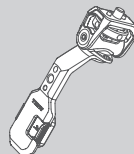
19mm导管适配器×2



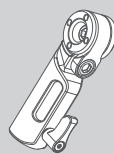
ZOOM模块×1



手柄连接件×2



监视器支架×1



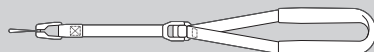
魔术腿连接件×1



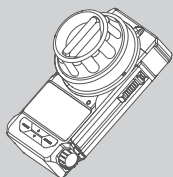
通用白环×5



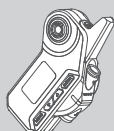
跟焦环×2



手轮肩带×1



手轮控制器×1



电机×1



15mm导管适配器×1



19mm导管适配器×1



电子白环×1



P-TAP转7芯电源线
(70cm) ×1



7-7PIN连接线
(50cm) ×1



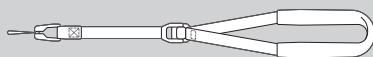
7-7PIN连接线
(30cm) ×1



通用白环×5



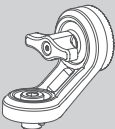
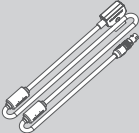
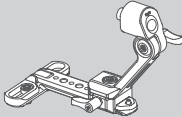
跟焦环×2



手轮肩带×1



0.8模数齿轮×1

			
右手柄×1	电机×1	ZOOM模块×1	手柄连接件×1
			
跟焦环×2	P-TAP转7芯电源线 (70cm) ×1	7-7PIN连接线 (50cm) ×1	7-7PIN连接线 (30cm) ×1
			
0.8模数齿轮×1	15mm导管适配器×1	19mm导管适配器×1	手提重心调节件/ 手提扩展件×1

产品参数

专业影像套装

产品型号:WLC-T06	包装重量:3810g	包装尺寸:335*150*290mm
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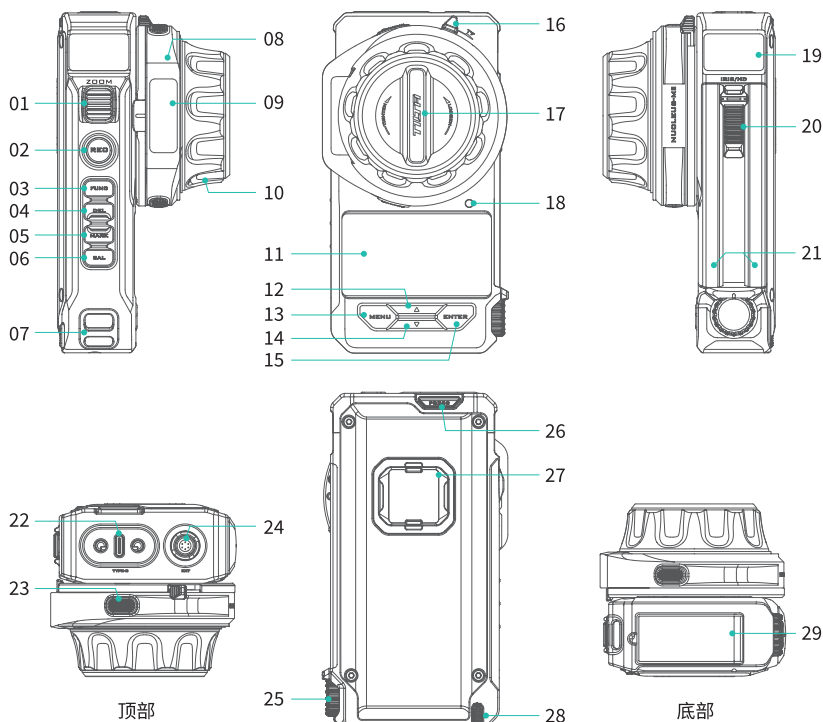
手柄套装

产品型号:WLC-T06-K1	包装重量:1600g	包装尺寸:285*135*221mm
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手柄套装

产品型号:WLC-T06-K2	包装重量:1430.5g	包装尺寸:285*135*221mm
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手轮	产品型号	WLC-T06-FIZ	
	颜色	深枪灰	
	重量	486.6g	
	尺寸	147.5×77.5×78.6mm	
	输入电压	7.2~24V DC	
	输出电压	5~12V DC	
	工作温度	-20℃~+50℃	
电机	产品型号	WLC-T06-MK	
	颜色	深枪灰	
	重量	155.2g	
	尺寸	101.7×65×31.7mm	
	噪音	15db	
	齿轮	模数0.5,齿数63个;模数0.8,齿数39个	
	输入电压	7.2~24V DC	
	输出电压	7.2~24V DC	
	工作温度	-20℃~+50℃	
手柄	产品型号	WLC-T06-HG-L(左) WLC-T06-HG-R(右)	
	颜色	深枪灰	
	重量	226.3g 240.8g(含ZOOM模块)	
	尺寸	147.5×87×34.3mm 147.5×87×59.6mm(含ZOOM模块)	
	输入电压	7.2~24V DC	
	输出电压	6~8.4V DC	
	工作温度	-20℃~+50℃	



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01 压力杆

控制电机(通过设置可控制F、I、Z、N任一电机)

02 录制键 / REC

03 多功能键 / FUNC

04 删除键 / DEL 删除MARK点/RANGE

05 标定键 / MARK 标定MARK点/RANGE

06 校准键 / CAL 长按校准电机

07 挂绳接口

08 电子白环

09 电子白环显示屏 显示对焦参数

10 跟焦轮

控制电机(通过设置可控制F、I、Z、N任一电机)

11 手轮显示屏

12 向上键 ▲

13 菜单键 / MENU 单击:进入菜单页面

14 向下键 ▼

15 确认 / ENTER

16 限位开关 切换TF/DF档 DF档:手轮旋转无角度限制 TF档:TILTA Focus模式,手轮限定转动角度<360°

17 跟焦阻尼调节旋钮

18 光线传感器 识别现场环境亮度来调整按键及手轮的灯光

19 IRIS显示屏 显示光圈参数

20 滑块

控制电机(通过设置可控制F、I、Z、N任一电机)

21 光圈灯

22 Type-C接口 用于充电、供电、升级固件及数据传输时使用

23 电子白环释放按钮

24 线控接口、电池接口 / EXT

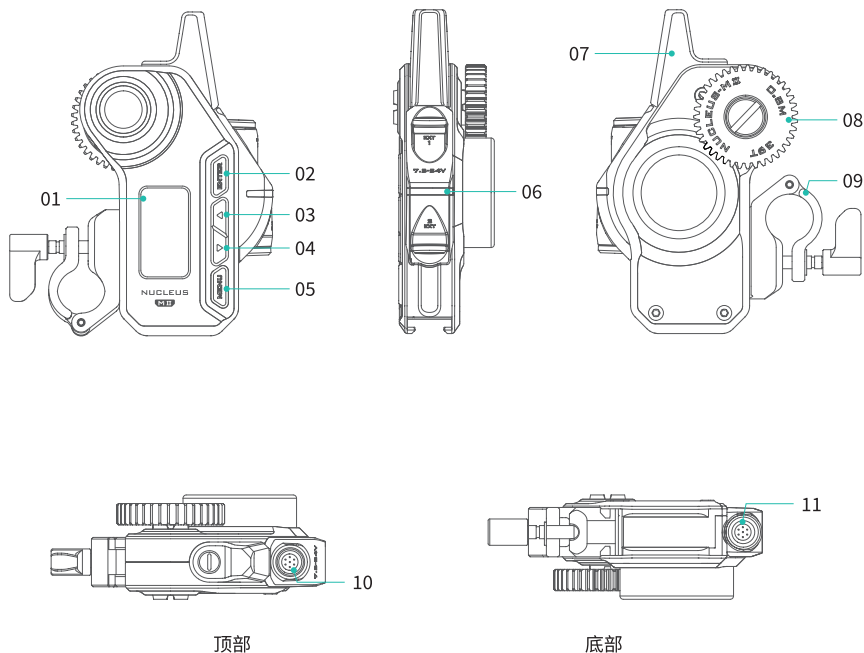
25 旋钮 控制电机(通过设置可控制F、I、Z、N任一电机)/压力杆速度

26 Type-C接口释放按钮 / PRESS 用于固定带有Type-C公头的拓展模块

27 手轮接口 / HANDWHEEL INTERFACE 连接手轮设备的接口

28 电池仓释放按钮 / OPEN

29 电池仓盖



顶部

底部

01 电机显示屏

02 确认 / ENTER

03 向上键 ▲
向上翻页选择/通道+

04 向下键 ▼
向下翻页选择/通道-

05 菜单 / MENU
单击:进入菜单页面

06 状态指示灯

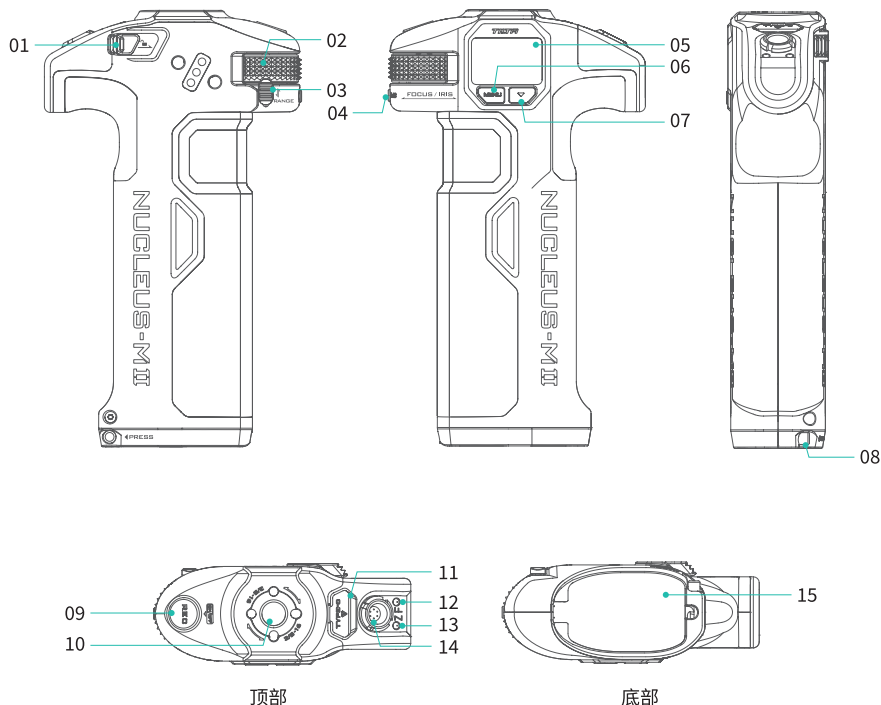
07 电机天线

08 0.8模数齿轮
可根据需求选择0.5模数齿轮或0.8模数
齿轮更换

09 15mm或19mm导管接口

10 电源/信号输入输出 / EXT-1
接驳电源及其他信号输入输出

11 电源/信号输入输出 / EXT-2
接驳电源及其他信号输入输出



01 ZOOM模块释放按钮

02 手柄跟焦轮

03 焦点手轮档位开关 / RANGE
切换3个不同档位

04 跟焦端点限位按钮 / A-B

05 手柄显示屏

06 菜单键/向上键 / MENU
双击:进入菜单页面
菜单页面下作为向上键使用:向上选择

07 向下键 ▼

08 电池仓释放推钮 / PRESS

09 录制键 / REC

10 3/8" -16定位螺纹孔

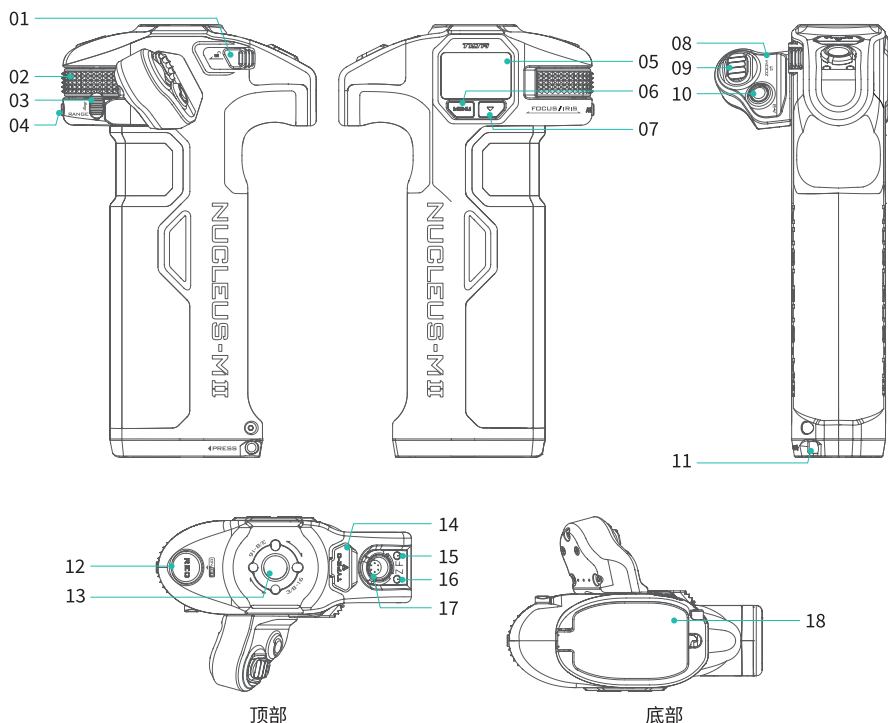
11 Type-C接口
用于充电、升级固件时使用

12 跟焦端点限位状态灯 / F

13 变焦端点限位状态灯 / Z

14 线控接口、电源接口
控制线接口

15 电池仓盖



01 ZOOM模块释放按钮

02 手柄跟焦轮

03 焦点手轮档位开关 / RANGE
切换3个不同档位

04 跟焦端点限位按钮 / A-B

05 手柄显示屏

06 菜单键/向上键 / MENU
双击:进入菜单页面
菜单页面下作为向上键使用:向上选择

07 向下键 ▼

08 ZOOM模块
用于实现变焦功能

09 压力杆

10 变焦端点限位按钮

11 电池仓释放按钮 / PRESS

12 录制键 / REC

13 3/8" -16定位螺纹孔

14 Type-C接口
用于充电、升级固件时使用

15 跟焦端点限位状态灯 / F

16 变焦端点限位状态灯 / Z

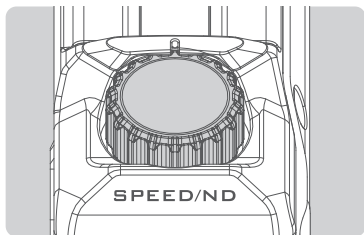
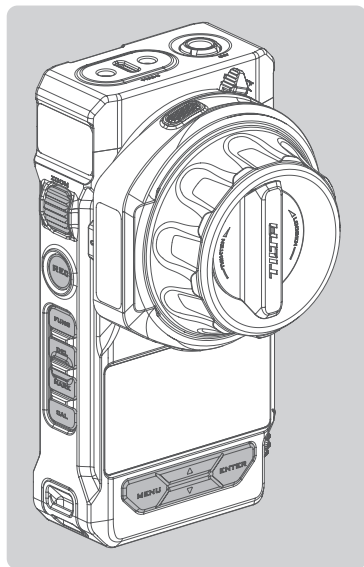
17 线控接口、电源接口
控制线接口

18 电池仓盖

快捷键介绍

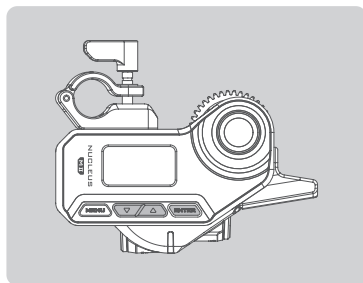
手轮

- 01 双击【向上键】“”放大标尺刻度(仅主界面有效)
- 02 双击【向下键】“”缩小标尺刻度(仅主界面有效)
- 03 同时按住【向上键】“”和【向下键】“”3秒,进入EZ配对
- 04 长按【向上键】“”同时使用【压力杆】“”此时ZOOM速度最大
- 05 长按【向下键】“”同时使用【压力杆】“”此时ZOOM速度最小
- 06 长按【MENU】“”回到主界面
- 07 长按【ENTER】“”打开或关闭电机灯光(仅主界面有效)
- 08 单击【REC】“”快速回到主界面(非主界面有效)
- 09 长按【REC】“”3秒后关机
- 10 长按【REC】“”后释放,再双击【REC】“”快速关机
- 11 长按【FUNC】“”锁定屏幕触摸和按键
- 12 双击【FUNC】“”切换主从控制
- 13 双击【MARK】“”标注MARK点
- 14 长按【MARK】“”震动提示后,转动手轮,标注RANGE,松开完成标注
- 15 双击【DEL】“”删除就近MARK点,长按DEL“”删除RANGE
- 16 长按【CAL】“”自动校准镜头行程
- 17 长按【旋钮】“”切换控制压力杆的速度



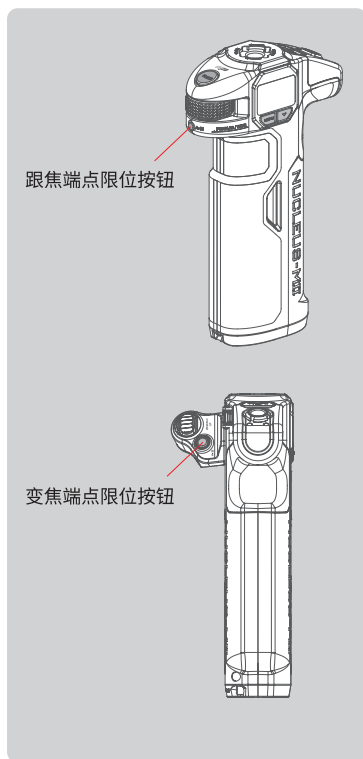
电机

- 01 同时按住【向上键】“▲”和【向下键】“▼”3秒进入EZ配对
- 02 双击【向上键】“▲”或【向下键】“▼”快速调整无线通道
- 03 长按【向下键】“▼”自动校准镜头行程
- 04 双击【ENTER】“ENTER”快速调整电机编号



手柄

- 01 同时按住【MENU】“MENU”和【向下键】“▼”3秒进入EZ配对
- 02 长按【REC】“REC”3秒后关机
- 03 双击【MENU】“MENU”启动菜单栏,单击【REC】“REC”快速回到主界面
- 04 长按【跟焦端点限位按钮】“○”进入“无线通道设置”页面
- 05 长按【变焦端点限位按钮】“○” (ZOOM模块上) 进入“压力杆速度设置”页面



安装电机

安装电机

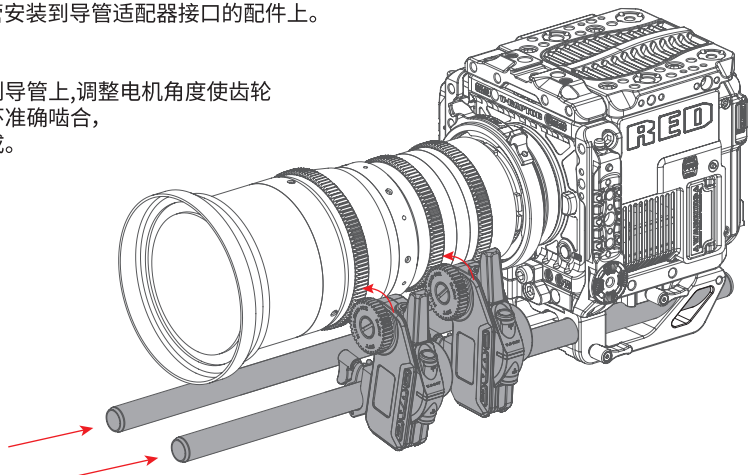
如图示,以电影机套件为例。

(1) 安装15mm导管

将15mm导管安装到导管适配器接口的配件上。

(2) 安装电机

将电机安装到导管上,调整电机角度使齿轮与镜头跟焦环准确啮合,锁紧旋钮完成。



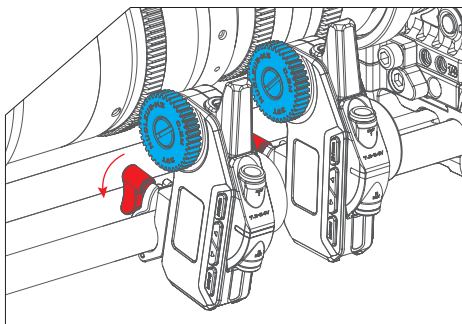
电机配备15mm和19mm导管适配器
(分别适配15mm和19mm导管,可根据需求
选择使用)。



15mm导管适配器

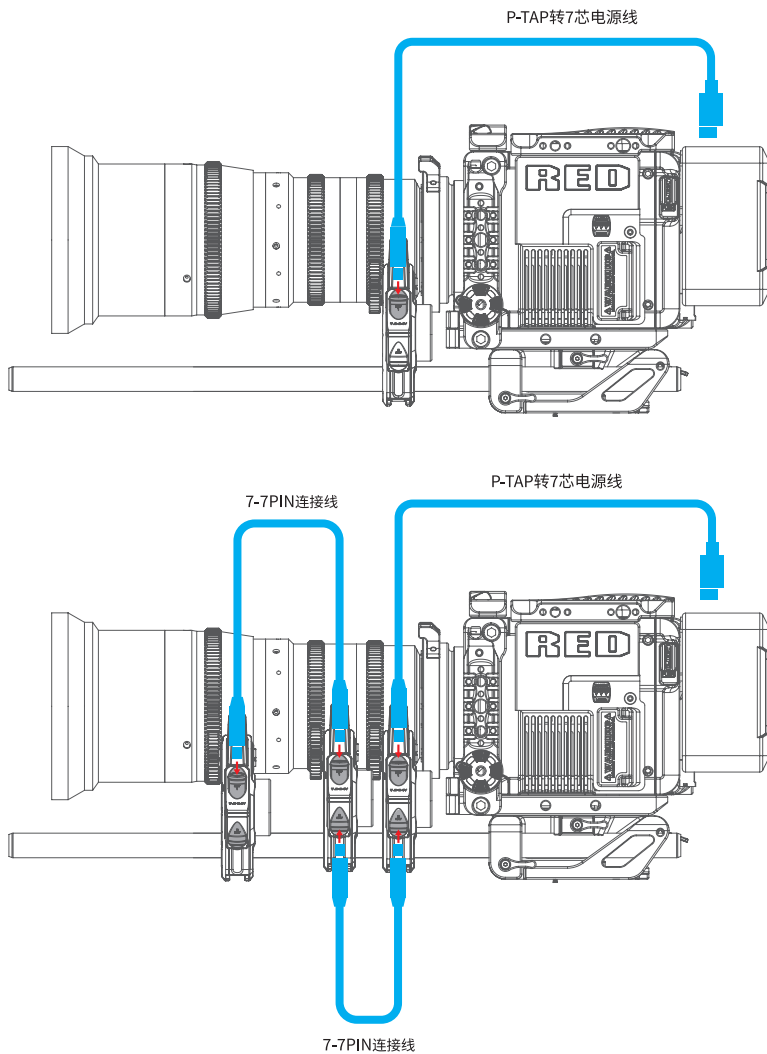


19mm导管适配器



注：每个电机上的EXT-1和EXT-2接口中，都有电源输入、电源输出和摄影机控制功能。

(一)



注：可根据电机使用情况选择30cm直头或50cm直头的7-7PIN连接线。

(二)

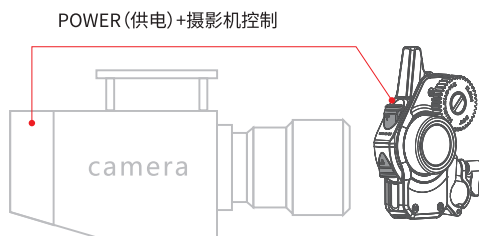
任意一台电机都可以连接摄影机控制, 电机可直接连接有电源输出和摄影机控制的摄影机或套件输出口。

如:

ARRI XT-RS接口

TILTA FOR ALEXA MINI 套件-14.8V 7PIN摄影机控制接口

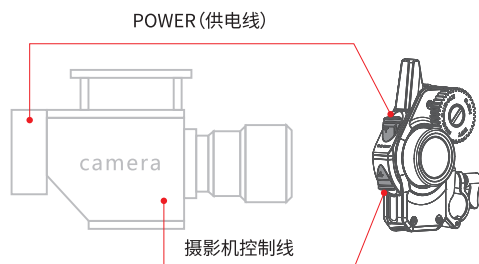
TILTA FOR RED DSMC2 套件-14.8V 7PIN摄影机控制接口



如:

其他的没有摄影机控制与供电集成的摄影机接口

须单独连接电源和摄影机控制

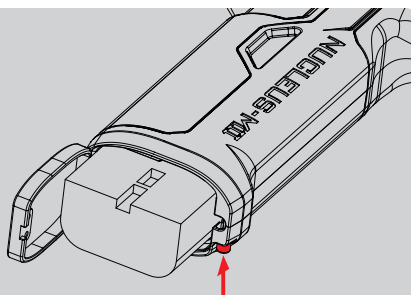


警告

当电机已连接供电或带供电功能的摄影机控制接口时, 不可再连接其他电源至电机, 以免停止工作或电源指令错乱。

手柄安装电池

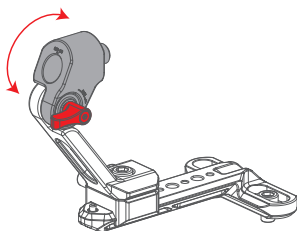
按压PRESS按钮，打开电池仓盖，装入电池，再扣上电池仓盖。



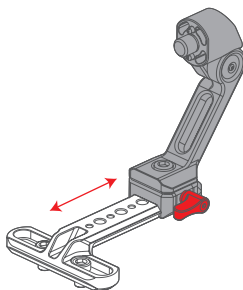
(一) 安装手柄到相机上

(1) 通过手提重心调节件/手提扩展件将手柄安装到相机套件上

1. 拧松旋钮调整部件所需角度；
2. 调整完毕后，锁紧旋钮固定。



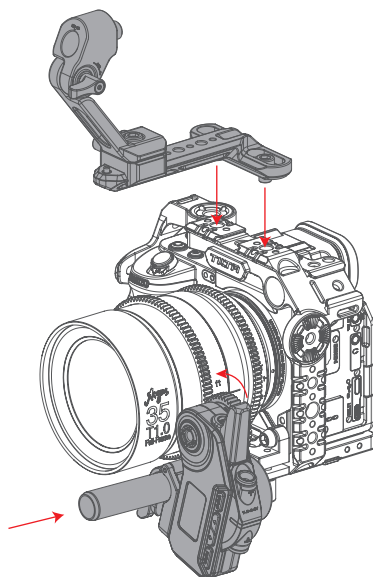
1. 拧松旋钮平移调整部件所需位置；
2. 调整完毕后，锁紧旋钮固定。



(2) 安装电机

如图示，以相机套件为例。

将电机安装到导管上,调整电机角度使齿轮与镜头跟焦环准确啮合,锁紧旋钮完成。

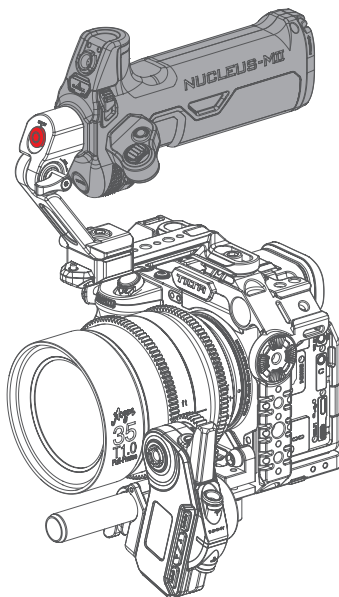
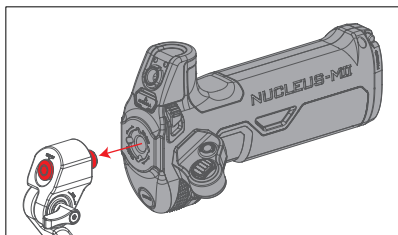


(3) 安装手提扩展件

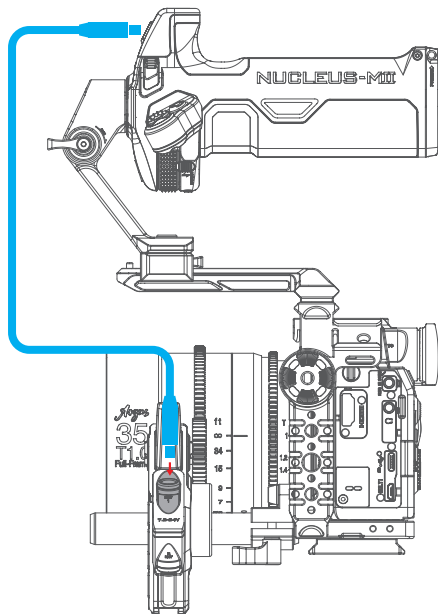
将手提扩展件安装在全笼顶部的1/4"-20螺纹孔,锁紧螺丝即可完成装配。

(4) 安装手柄

将手提扩展件的3/8"-16螺丝与手柄3/8"-16螺纹孔嵌合,锁紧螺丝即可完成装配。



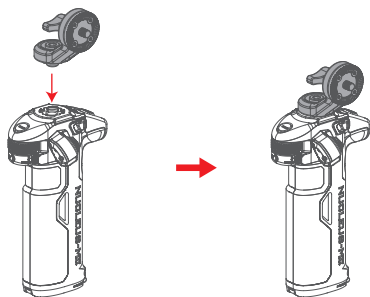
(5) 连接7-PIN连接线控制电机



(二) 安装手柄到肩扛上

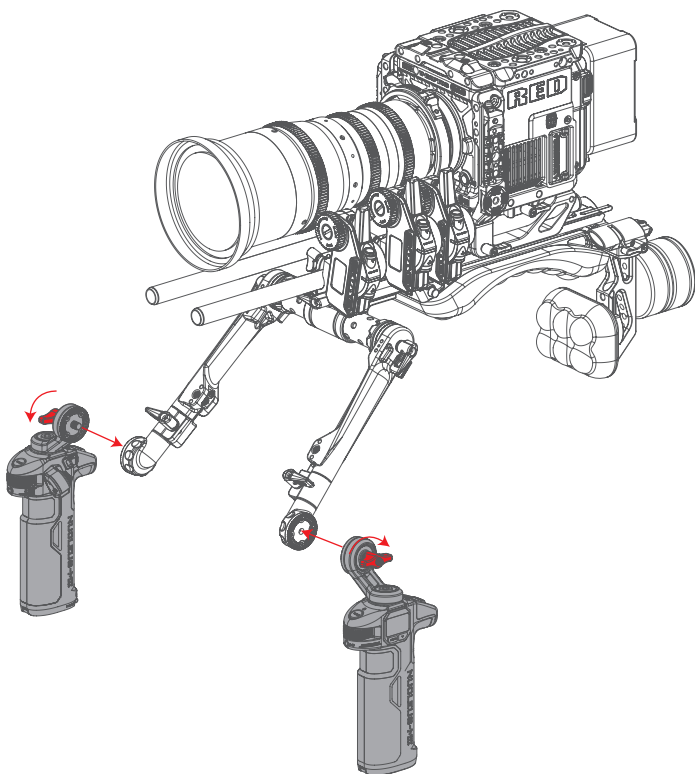
(1) 安装手柄连接件

将手柄连接件安装在手柄顶部上的1/4"-20螺纹孔上, 锁紧螺丝即可完成装配。



(2) 安装手柄

将手柄安装在肩扛左右两臂上的牙盘接口上, 锁紧旋钮即可完成装配。



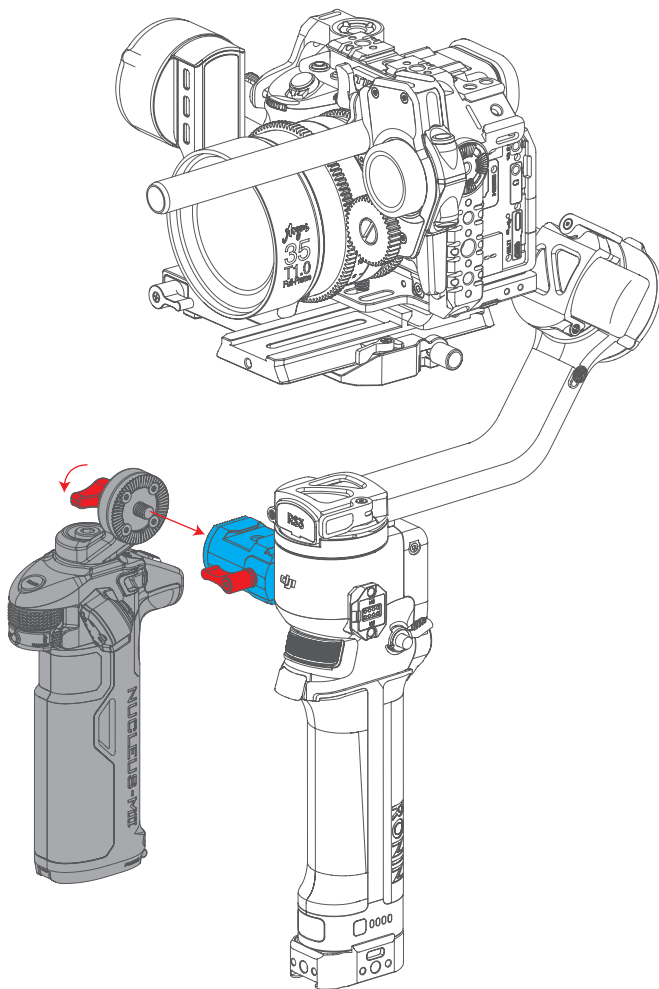
(三) 安装手柄到DJI RONIN云台上

(1) 安装铁头NATO转ARRI牙盘扩展件 (TGA-NRA) (另购)

将NATO转ARRI牙盘扩展件安装到DJI RONIN云台的NATO模块上, 锁紧旋钮完成。

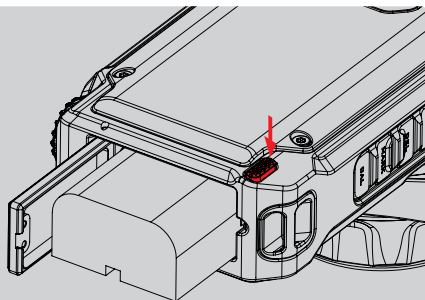
(2) 安装手柄

通过手柄连接件将手柄安装到NATO转ARRI牙盘扩展件的牙盘接口上, 锁紧旋钮完成。



手轮安装电池

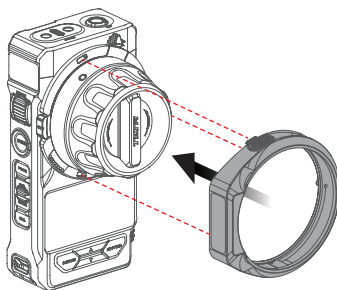
按压OPEN按钮，打开电池仓盖，装入电池，再扣上电池仓盖。



安装电子白环与通用白环

(1) 安装电子白环

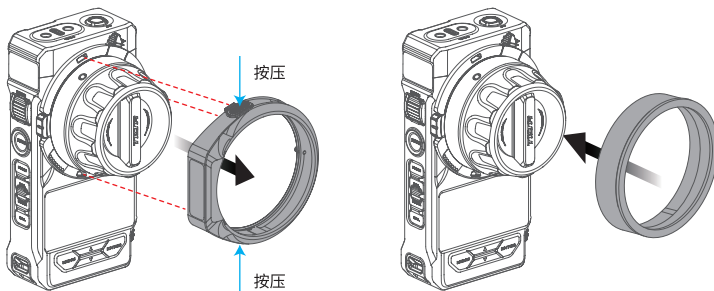
对准限位点，将电子白环安装到手轮跟焦轮上听到“咔哒”声即安装完成。



(2) 安装通用白环

(2.1) 按压电子白环释放按钮，取下电子白环。

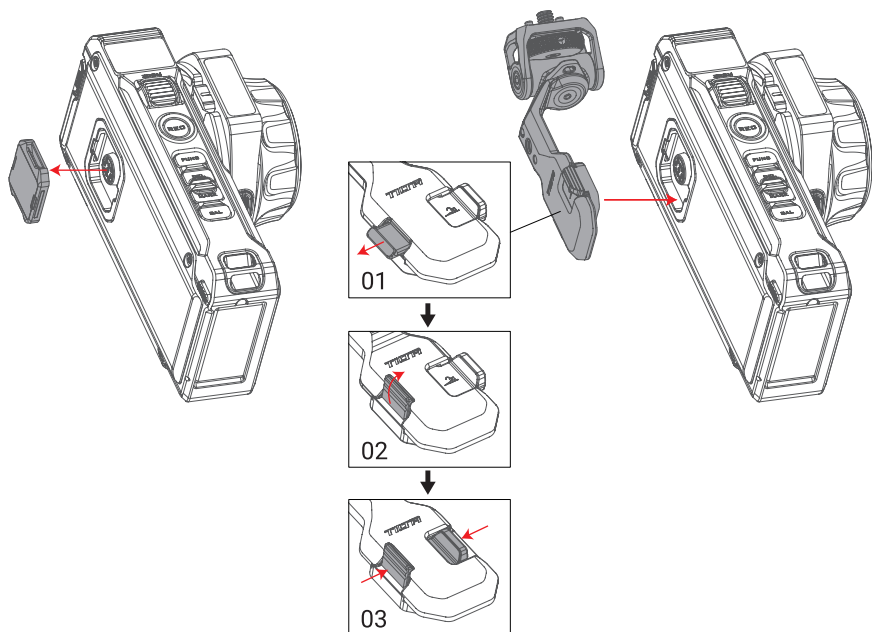
(2.2) 再将通用白环安装到手轮跟焦轮上，完成安装。



手轮与监视器的使用(一)

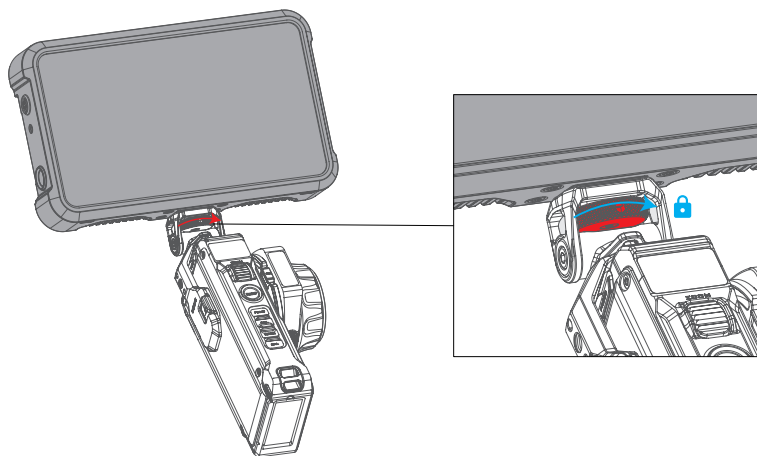
(1) 安装监视器支架

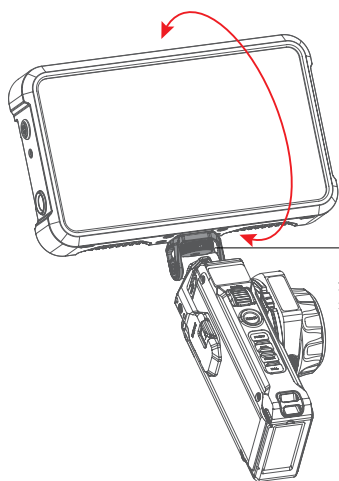
取下手轮接口保护盖,将监视器支架安装到手轮接口上。



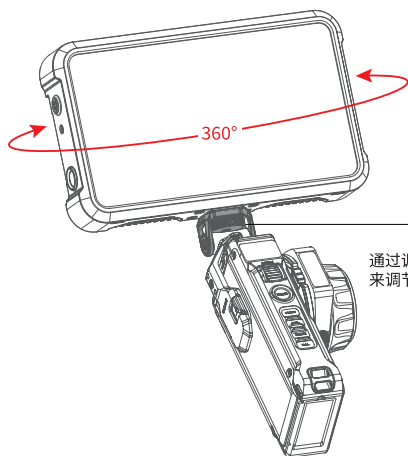
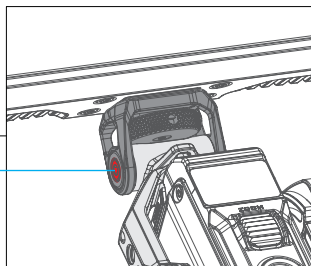
(2) 安装监视器(另购)

将监视器安装在监视器支架的1/4"-20定位螺丝,锁紧旋钮螺丝即可完成装配。

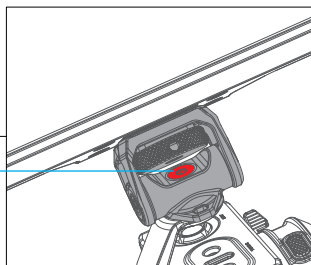




通过调整螺丝松紧度，
来调节支架的阻尼负载力度。



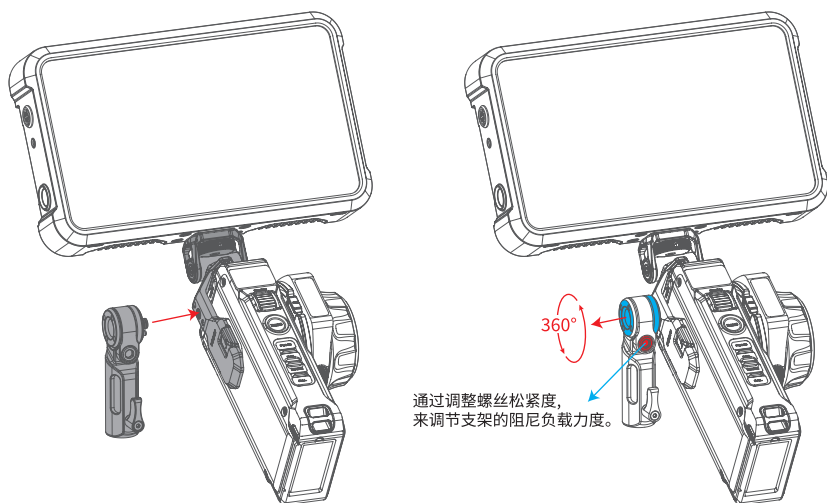
通过调整螺丝松紧度，
来调节支架的阻尼负载力度。



手轮与监视器的使用(二)

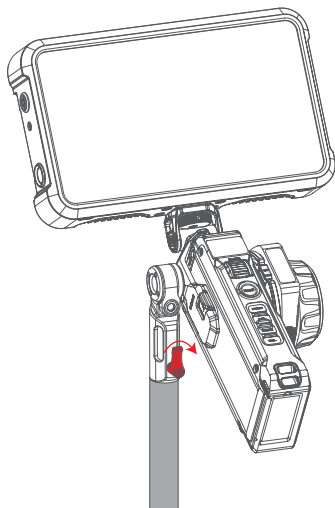
(1) 安装魔术腿连接件

将魔术腿连接件安装在监视器支架的1/4"-20定位螺纹孔上，锁紧螺丝完成装配。



(2) 安装魔术腿(另购)

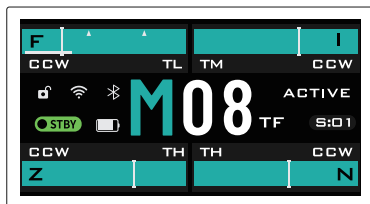
将魔术腿安装在魔术腿连接件上，锁紧旋钮完成，实现手轮无手持监看控制。



快速配对方式

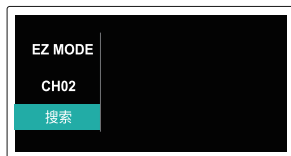
一、手轮-“标准”

长按 **08** 进入无线通道设置页面确认在“标准”下进行EZ配对。



(一) 在手轮、电机和手柄中进入EZ配对

同时按住手轮【▲】键和【▼】键3秒，进入EZ配对。



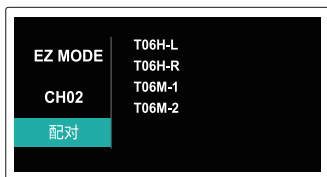
同时按住电机【▲】键和【▼】键3秒，进入EZ配对。



同时按住左、右手柄【MENU】键和【▼】键3秒，进入EZ配对。



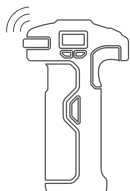
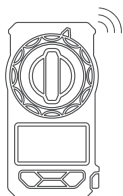
点击手轮“搜索”，搜索后得到



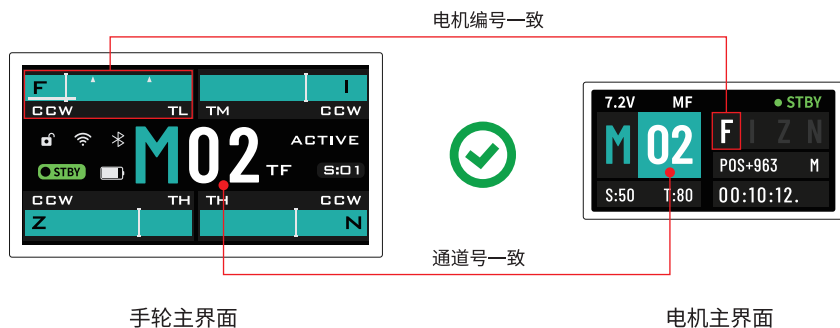
T06H-L和T06H-R表示两个手柄

T06M-1和T06M-2表示两个电机

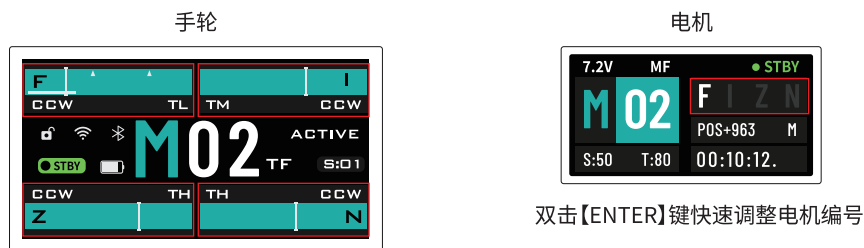
点击手轮“配对”，手轮与手柄和电机配对成功，通道号一致。



注:手轮与电机的通道号和电机编号对应,才能实现控制。



(二) 如何快速调整手轮和电机的电机编号



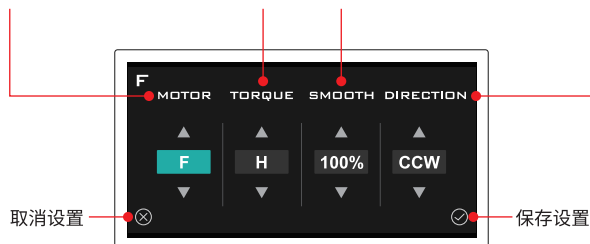
以“跟焦轮快捷操作”为例,长按  打开快捷操作页面设置电机编号、扭矩、平滑度、方向参数。

电机编号“F”/“I”/“Z”/“N”
“OFF”关闭控制电机

电机扭矩
“L”/“M”/“H”

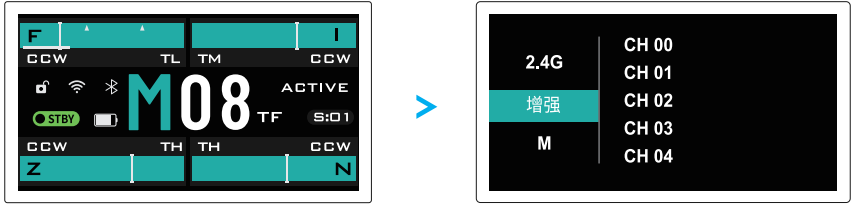
电机平滑度
0%-100%

电机旋转方向
CW:顺时针;CCW:逆时针



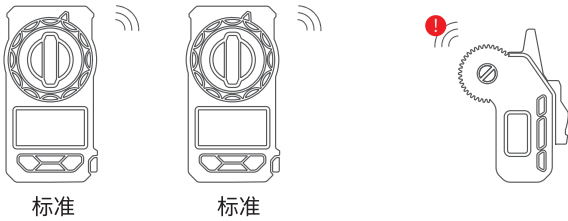
二、手轮-“增强”

长按 **08** 进入无线通道设置页面切换为“增强”进行EZ配对。



手轮“增强”的使用情况

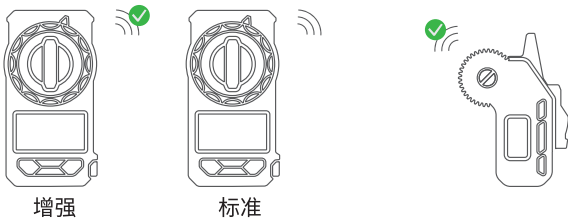
当多台手轮在“标准”下,通道号相同,控制同一电机时,会影响信号形成干扰,使电机齿轮异常转动。



解决方案:

手轮——选择主控手轮,打开“增强”配对电机。在“增强”下主控手轮信号优先提升,其他手轮信号将被屏蔽。

电机——进入E-Z操作,与手轮进入配对。



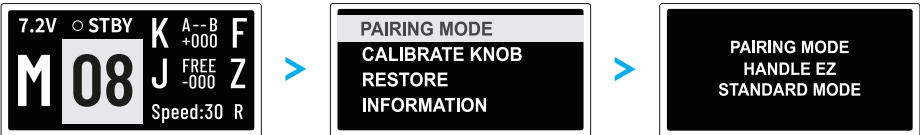
三、手柄

当手柄作为唯一控制端控制电机时，需要把手柄的配对模式从“EZ MODE”切换为“HANDLE EZ STANDARD MODE (标准)”或“HANDLE EZ EXPANDED MODE (增强)”



四、手柄-“HANDLE EZ STANDARD MODE (标准)”

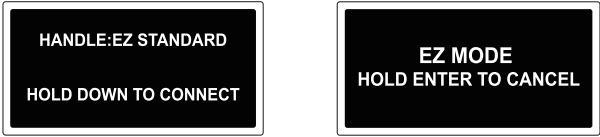
手柄——双击【MENU】键进入菜单，选择“PAIRING MODE”进入页面，单击【MENU】键或【♥】键切换为“HANDLE EZ STANDARD MODE (标准)”，单击【REC】键返回主界面。



(一) 在手柄和电机中进入EZ配对

同时按住左或右手柄【MENU】键和【♥】键3秒，进入EZ配对。

同时按住电机【▲】键和【♥】键3秒，进入EZ配对。



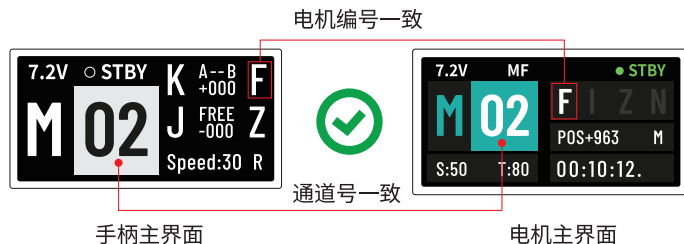
当目标电机出现在手柄配对列表中时，长按【♥】键进入配对。



T06M*1表示一个电机

手柄与电机配对成功,通道号一致。

注:手柄与电机的通道号和电机编号对应,才能实现控制。

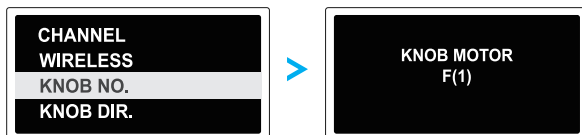


(二) 如何调整手柄和电机的电机编号

手柄-主界面双击【MENU】键,进入“菜单”设置,单击【MENU】键或【▼】键移动光标进行查看十二项菜单设置,双击进入对应选项设置;长按【MENU】键保存并退出。

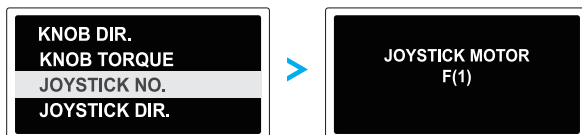
1. 手柄-跟焦轮设置电机编号

双击【MEUN】键,进入“KNOB NO.”,单击【MEUN】键或【▼】键可设置控制“F (1)”/“I (2)”/“Z (3)”/“N (4)”电机编号,“OFF”关闭手柄对电机的控制,长按【MENU】键返回,或单击【REC】键返回主界面。



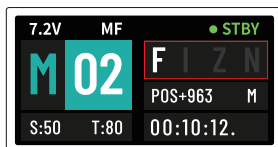
2. 手柄-压力杆设置电机编号

双击【MEUN】键,进入“JOYSTICK NO.”,单击【MEUN】键或【▼】键可设置控制“F (1)”/“I (2)”/“Z (3)”/“N (4)”电机编号,“OFF”关闭手柄对电机的控制,长按【MENU】键返回,或单击【REC】键返回主界面。



3. 电机-快速设置电机编号

电机-双击【ENTER】键快速调整电机编号



五、手柄-“HANDLE EZ EXPANDED MODE (增强)”

手柄——双击【MENU】键进入菜单, 选择“PAIRING MODE”进入页面, 单击【MENU】键或【♥】键切换为“HANDLE EZ EXPANDED MODE (增强)”, 单击【REC】键返回主界面。



手柄“HANDLE EZ EXPANDED MODE (增强)”的使用情况

当多台手柄在“STANDARD MODE”下, 通道号相同, 控制同一电机时, 会影响信号形成干扰, 使电机齿轮异常转动。



解决方案:

手柄——选择主控手柄, 打开“EXPANDED MODE”配对电机。在“EXPANDED MODE”下主控手柄信号优先提升, 其他手柄信号将被屏蔽。

电机——进入E-Z操作, 与手柄进入配对。



如需更详细的操作演示与使用说明, 可观看产品配套视频讲解。



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更多操作说明请扫描图中二维码, 输入相关产品型号,
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For more operational instructions, please scan the QR code in
the image and enter the relevant product model to access the
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