

TILTA × DANMING

SPEED PAN SYSTEM

铁头&Dan Ming联名 车拍旋转支架

使用指南 / User 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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CAUTION & WARNINGS

Please carefully read and follow the instructions below before using this product. TILTA assumes no liability for any damages or consequences resulting from operational errors or improper use.

Installation & Driving Safety

- Ensure the vehicle is completely stationary in a safe location before installing, removing, or adjusting the device.
- Never operate the device by extending any part of your body outside a moving vehicle.

Payload

- Do not exceed the maximum payload capacity.
- For bumpy terrain, vehicles featuring higher ground clearance and compliant suspension systems are recommended to ensure stable operation.

Safety Check

- Please make sure to read the user manual carefully before operation. Do not attempt to use the device without proper understanding.
- Before shooting, inspect each component to ensure all connections and locking mechanisms are secure. This is essential for safe operation.

Maintenance & Care

- Please keep the device clean and free of dust or debris. Gently wipe off any particles with a clean, dry cloth.
- Do not subject the device or its accessories to strong impact or vibration, as this may cause damage and lead to malfunction.

Suction Cup Caution & Warnings

Hydra Electronic Suction Cup (4.5") The suction cup body has a built-in 3.7V 1500mAh lithium battery.

Accessory Requirements

- Charging the battery in environments above 104°F (40°C) or below 41°F (5°C) may result in reduced performance, swelling, leakage, overheating, or other forms of damage.
- Do not store the battery in environments exceeding 140°F (60°C). The ideal storage temperature range is 72°F to 82°F (22°C to 28°C).

Operating Environment

- Please use the battery in environments with a temperature range of -4°F to 113°F (-20°C to 45°C). Exposure to high temperatures may cause abnormal swelling, fire, or even explosion. When operating in low-temperature environments, it is recommended to fully charge the battery at room temperature beforehand to help extend battery life.
- Do not charge the device near flammable or combustible materials such as carpets or wooden surfaces. Always monitor the charging process to prevent accidents.
- Please store the device in a dry environment. For optimal storage conditions, the relative humidity should not exceed 40%.
- Please do not disassemble or modify the suction cup's mechanical structure. The unit has been fully calibrated before leaving the factory. Unauthorized changes may lead to performance degradation or permanent damage.

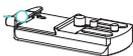
Battery Safety

[Warning]

- This device is equipped with a non-removable built-in battery. Please do not attempt to replace the battery yourself, as this may damage the battery or the device.
- Do not expose the battery to high temperatures or heat sources such as direct sunlight, heaters, microwave ovens, ovens, or water heaters. Overheating the battery may cause an explosion.
- Do not disassemble or modify the battery, insert foreign objects, or immerse it in water or other liquids. Doing so may cause leakage, overheating, fire, or explosion.
- The electrolyte inside the battery is highly corrosive. If it accidentally comes into contact with skin or eyes, rinse immediately with clean water for at least 15 minutes and seek medical attention right away.
- Do not throw the battery into fire, as it may cause fire or explosion.
- Do not drop, crush, or puncture the battery. Excessive external force may cause internal short circuits and result in overheating.
- Do not use a damaged battery.
- Do not store the battery when fully discharged, as this may lead to irreversible cell damage.
- Please ensure the battery is fully discharged before placing it in a designated battery recycling bin. As batteries contain hazardous materials, they should not be disposed of with regular household waste. Kindly follow your local regulations regarding battery recycling and disposal. If the battery cannot be fully discharged, please contact a certified recycling service for proper handling.

HYDRA X DAN MING SPEED PAN SYSTEM OVERVIEW

Manfrotto ARCA Quick Release Plate
for Speed Pan System



Manfrotto Receiver for
Speed Pan System



Action Camera Mount



Mini Tilt Head for Speed Pan System



±15° Tilt Angle

Rotatable Mounting Plate

360° Horizontal Pan. Locking lever secures pan axis.



15mm Aluminum Rod



Extended Rod Adapter for
Speed Pan System



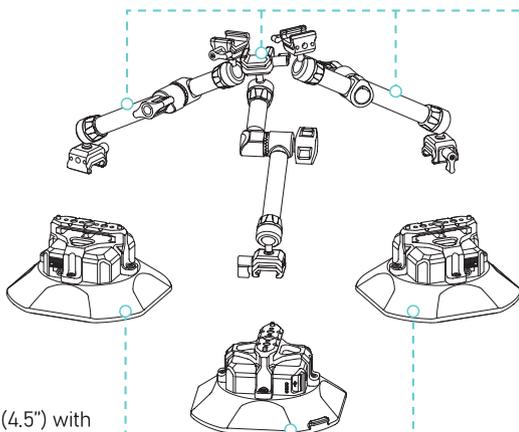
Cheese Plate Adapter



NATO Adapter



Tilta Pro Articulating Arm with
Dual NATO Attachments



Electronic Suction Cup (4.5") with
NATO Mounting Bracket

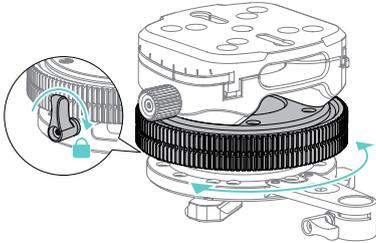
Input: 5V DC; Operating Temperature: -4°F to 113°F (-20°C to 45°C)

Product Specifications	Dimensions	Weight	Materials
Speed Pan System	182.6×121×145mm	1007g	Aluminum Alloy + SUS304
Tilta Pro Articulating Arm	240×72×25mm	289.5g	Aluminum Alloy + SUS304
Electronic Suction Cup (4.5")	135×134.1×83mm	488.5g	ABS + Silicone + Aluminum Alloy

ASSEMBLY AND CAR MOUNTING

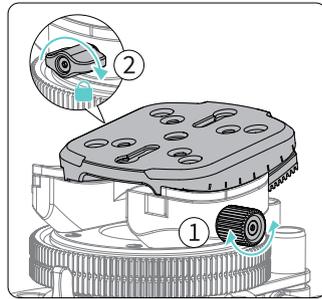
Rotatable Mounting Plate

Supports 360° horizontal rotation. Tighten the locking knob to lock the position.

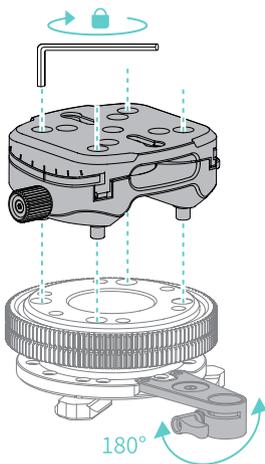


Mini Tilt Head for Speed Pan System

Adjust knob ① on the head to set the tilt angle ($\pm 15^\circ$), then tighten knob ② to lock the angle.



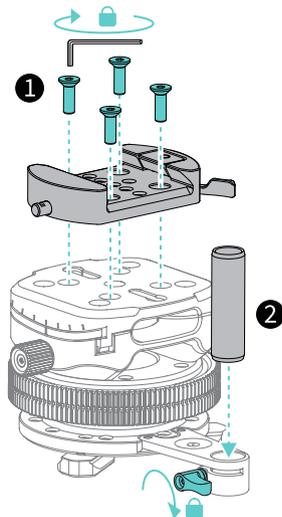
01 Install the Tilt Head.



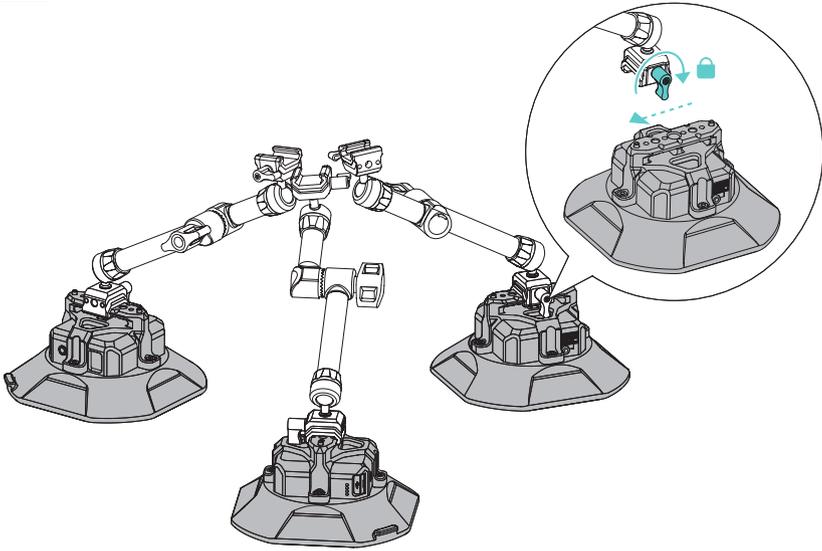
Rotatable Mounting Plate Rod Clamp:

Can be flipped 180° to adjust the motor's position, ensuring proper gear engagement between different motor models and the rotatable mounting plate.

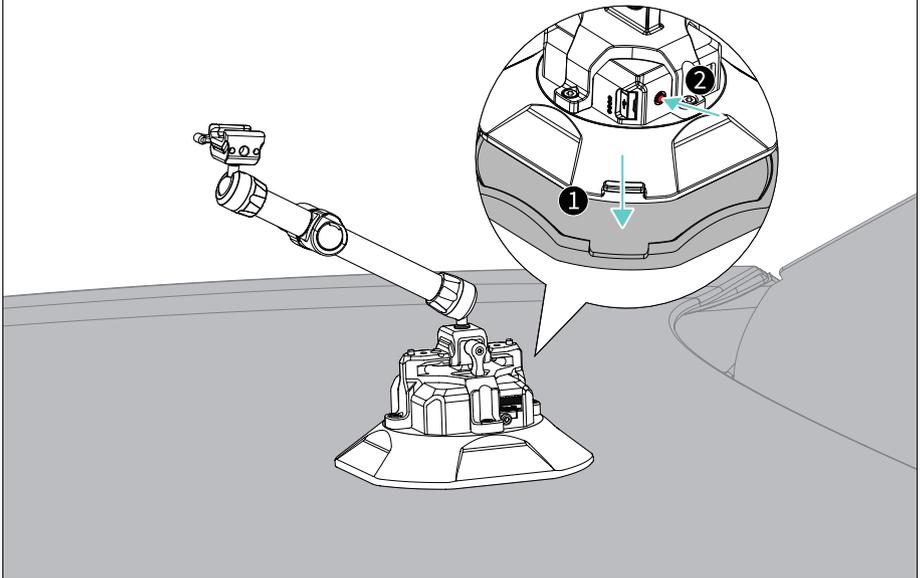
02 Install the Manfrotto Receiver and the 15mm aluminum rod.



03 Install the Tilta Pro Articulating Arm.



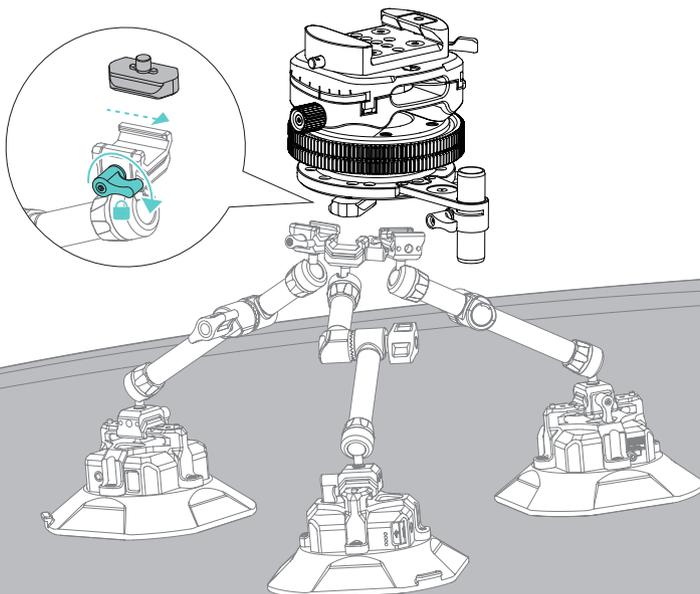
- 04** (1) Remove the suction cup's protective cover.
(2) Place the suction cup on a flat surface. Single press the power button to activate suction.



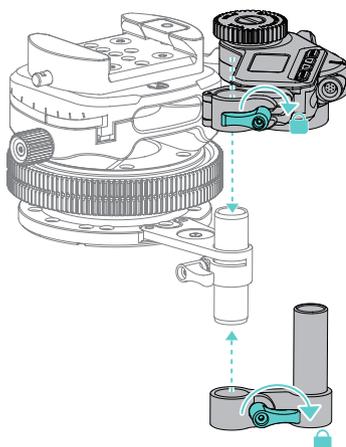
05

(1) Before installation, check and ensure the NATO adapter is securely locked to the bottom of the rotatable mounting plate.

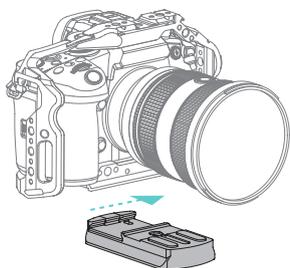
(2) Adjust the orientation of the articulating arm, slide it into the NATO Adapter and tighten the NATO receiver's locking knob to secure it.

**06**

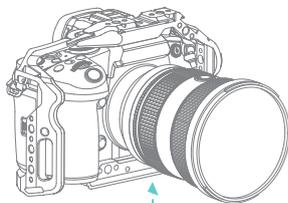
Install the Nucleus-M II motor (WLC-T06-M, sold separately) and the extended rod adapter.



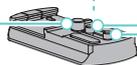
07



Or

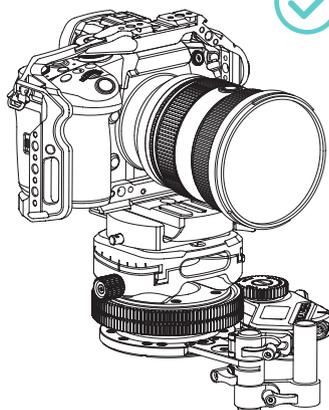
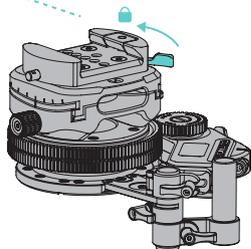
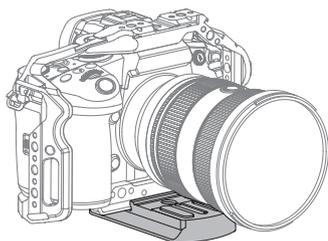


3/8"-16 Screw



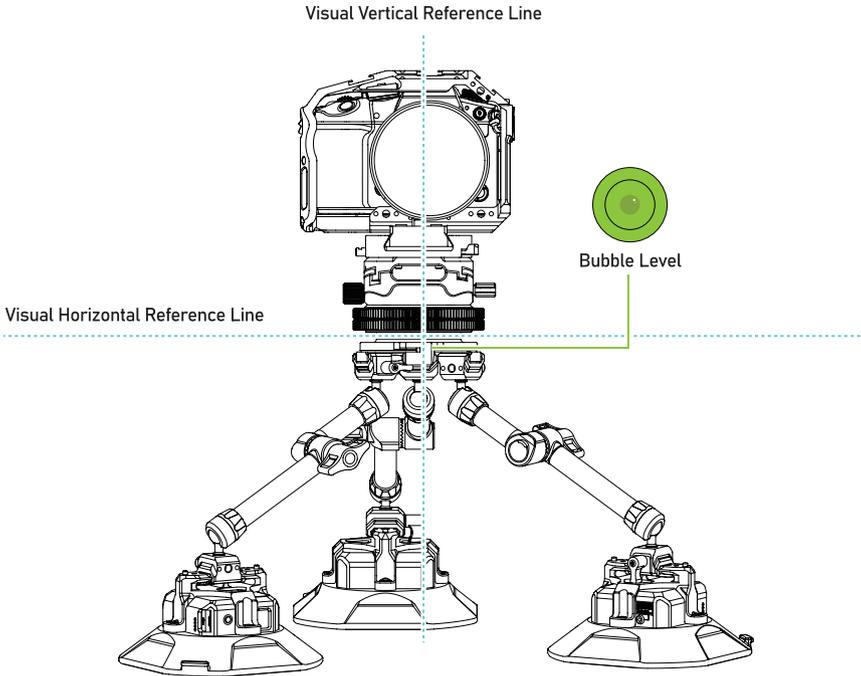
1/4"-20 Screw

08



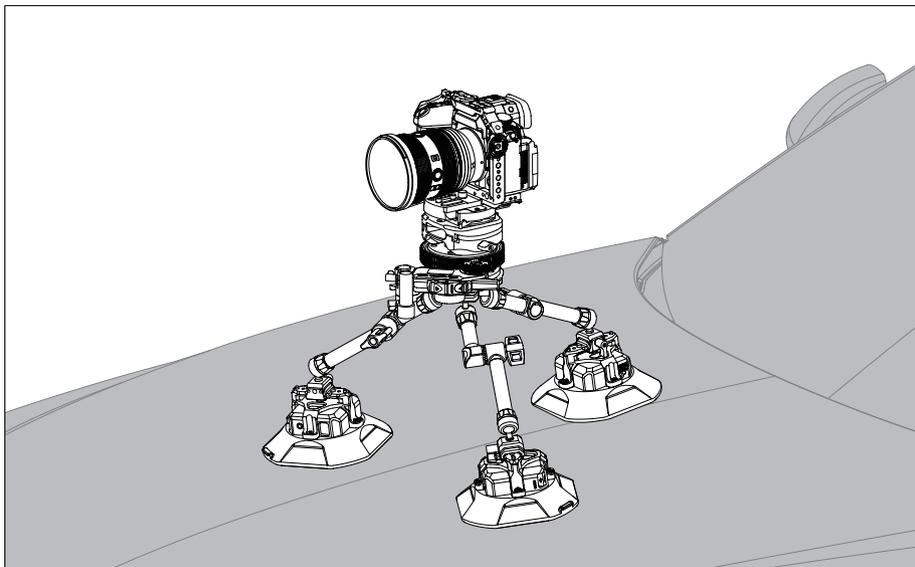
LEVEL AND CENTER OF GRAVITY ADJUSTMENT WITH LOAD

- (1) After confirming the final payload (Load Capacity $\leq 5\text{kg}$), use the bubble level on the rotatable mounting plate to calibrate the horizontal Center of Gravity.
- (2) Adjust the joints of the articulating arm to precisely align the payload's horizontal Center of Gravity with the center of the bubble level.
- (3) Once adjustment is complete, check and tighten all locking knobs and screws.

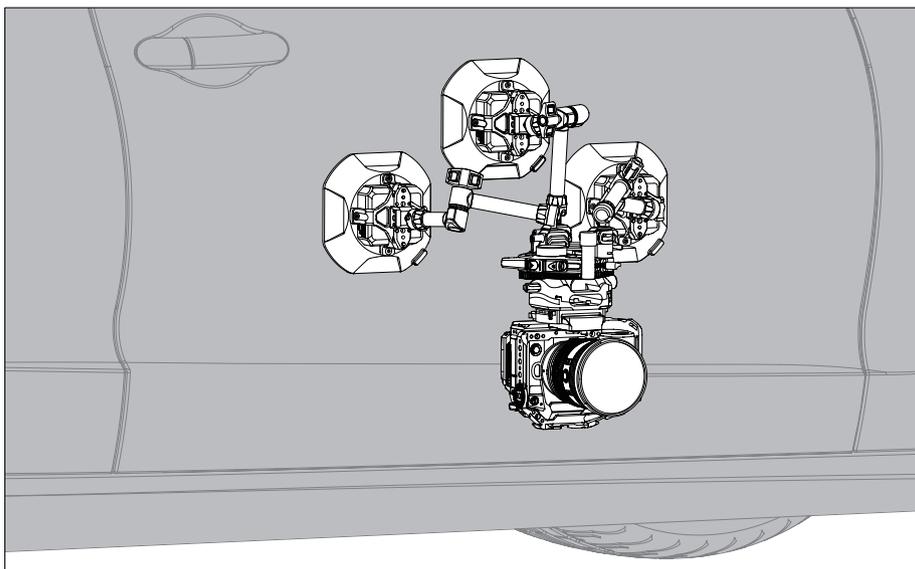


CAR MOUNTING OPTIONS

Hood



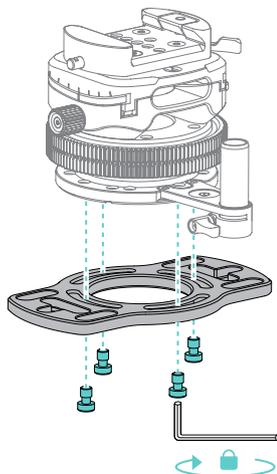
Side



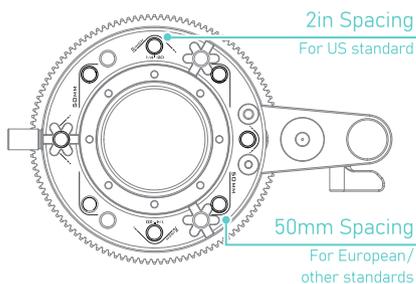
INSTALLING THE CHEESE PLATE ADAPTER

- For installation of the Tilt Head, Manfrotto Receiver, and 15mm aluminum rod, see steps **01** and **02** on page 05.

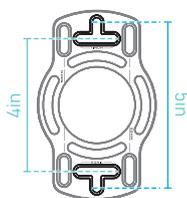
- 03** Remove the NATO rail from the bottom of the rotatable mounting plate and install the cheese plate adapter.



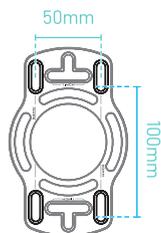
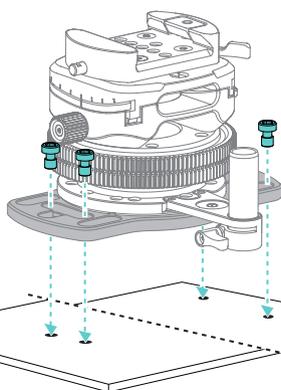
Bottom of the rotatable mounting plate



- 04** Attach to the cheese plate.



1in Spacing
For US standard

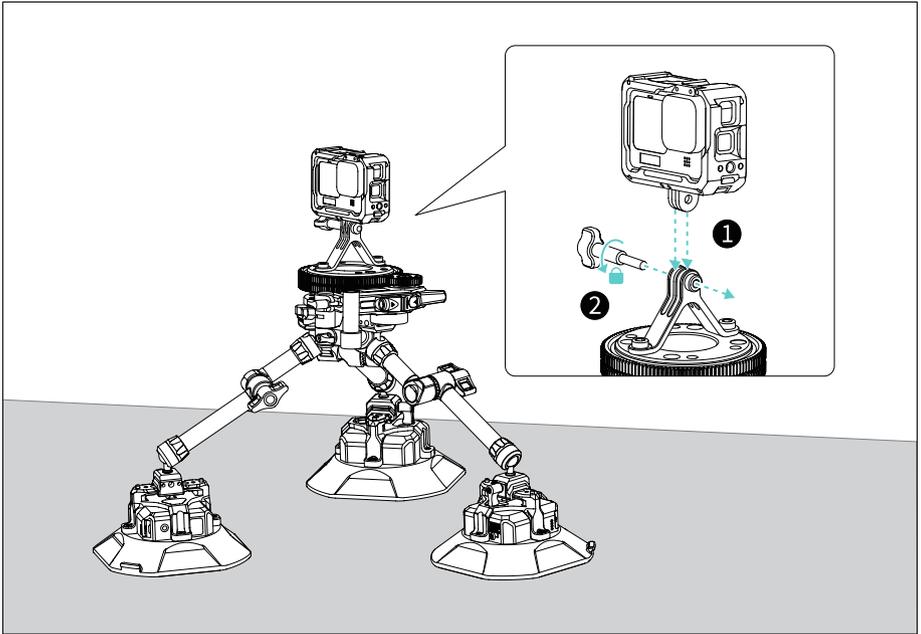


50mm Spacing
For European/other standards

- For installation of the Nucleus-M II motor (sold separately), extended rod adapter, camera, and Manfrotto ARCA quick release plate, see steps 06–08 on page 07–08.

EXPANSION: INSTALLING THE ACTION CAMERA

- (1) For installation of the 15mm aluminum rod, see step 02 on page 05.
- (2) For installation of the articulating arm and electronic suction cup, see steps 03-05 on pages 06-07.
- (3) For installation of the Nucleus-M II motor (sold separately) and extended rod adapter, see step 06 on page 07.





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mini programs



扫码进入官网

Scan the QR code to enter
the Tilta website

更多操作说明请扫描图中二维码, 输入相关产品型号, 获取产品电子版说明书。

For more operational instructions, please scan the QR code in the image and enter the relevant product model to access the electronic version of the user manual.

Manufacturer : Shenzhen Tilta Technology Co., Ltd.

Address (China) : 1st & 2nd Floor, Building B, Qiaode High Technology Park, No. 7 Road, Guangming New District, Shenzhen 518125

Address (United States) : 1901 W Magnolia Blvd, Burbank, CA 91506

Address Germany) : Lise-Meitner-Allee 13, Bochum, North Rhine-Westphalia 44801

Address (United kingdom) : Room 3, Unit 11, Woodland Business Park, Ystradgynlais, Swansea SA91JW

制 造 商 : 深圳市铁头科技有限公司

地 址 : 深圳市光明区玉塘街道田寮社区光明高新园西区七号侨德科技园厂房B栋一层、二层

服务热线 : 4006 1998 67

Official website : <https://tilta.com/>
<https://eu.tilta.com/>
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