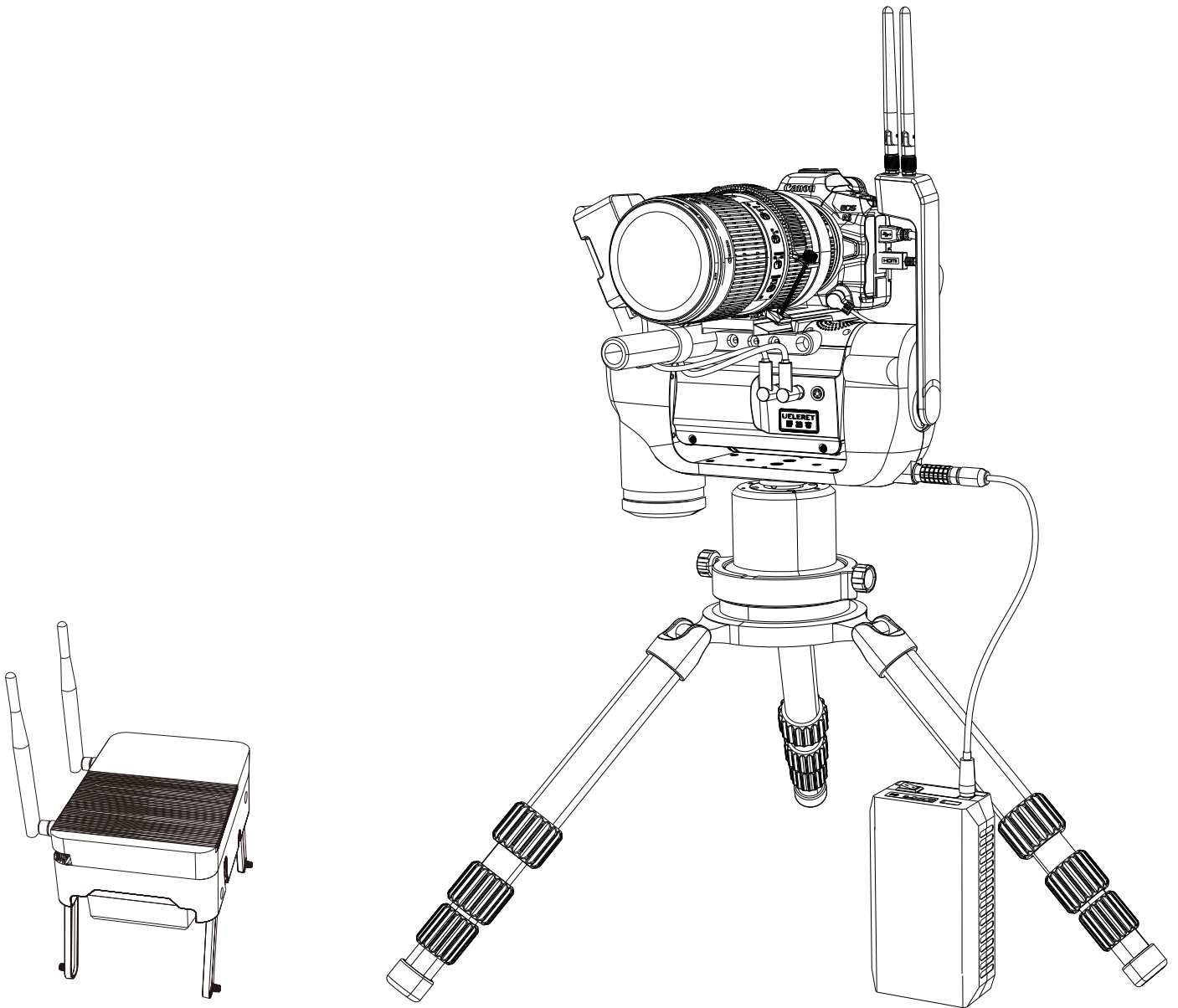


Installation and use manual of Remote Camera Assistant

mini Canon version



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Preface

Thank you for your trust in choosing Ueleret Remote Camera Assistant mini.

We will serve wholeheartedly for you.

The Remote Camera Assistant mini can be remotely control the digital camera and smart stabilizer. There are two different communication distance options available. Between the stabilizer and operator, it allows to control within a range of 0 m-500 m without blocking or slightly blocking the transmission signal.

This manual is applicable to both models of communication distances of 500m.

The remote camera assistant mini can be upgraded to the infrared trigger version which adds auto capture function and brings more convenience for your photography.

To ensure a smooth user experience, reading the manual, we kindly ask the owner to carefully read and familiarize themselves with the operating and inspection procedures outlined in this manual.

Please read this user manual thoroughly and start an enjoyable journey of experience.

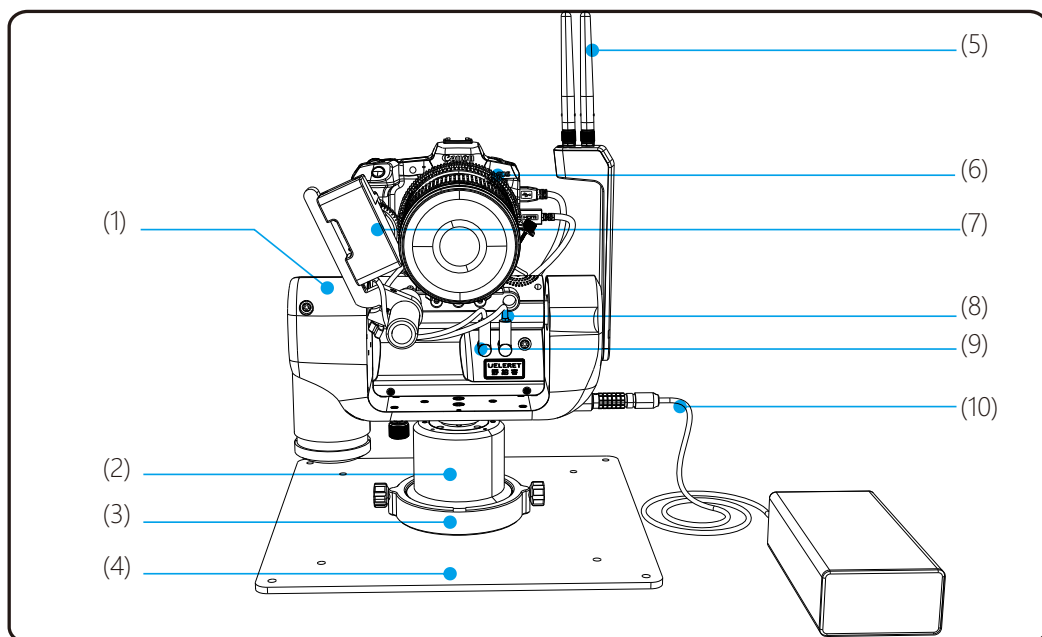
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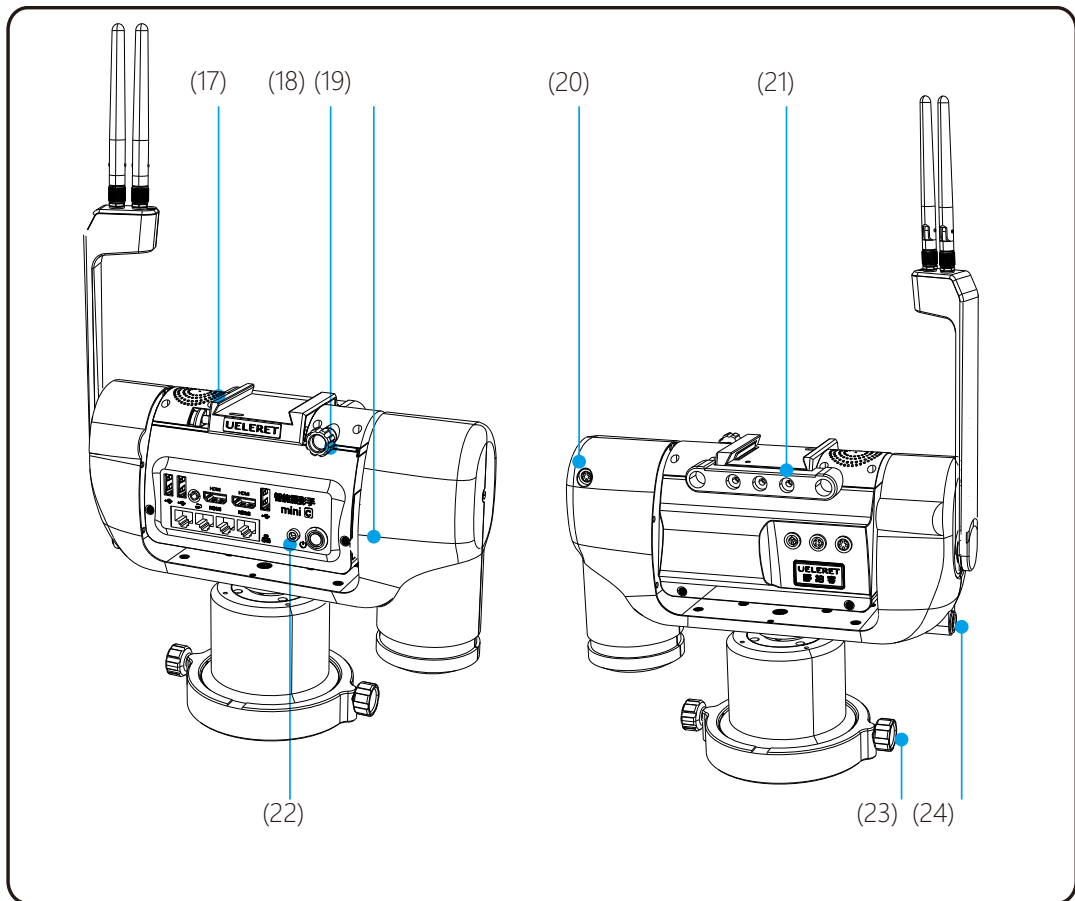
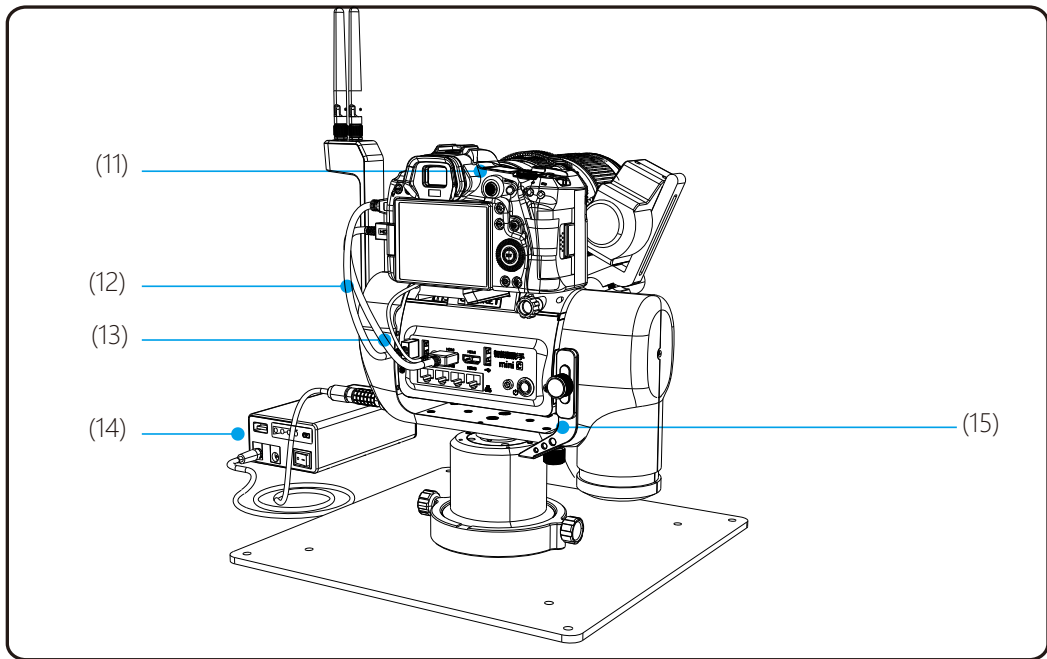
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Chapter 1. Product Structure and parts introduction of Remote Camera Assistant mini

Structure diagram of smart stabilizer

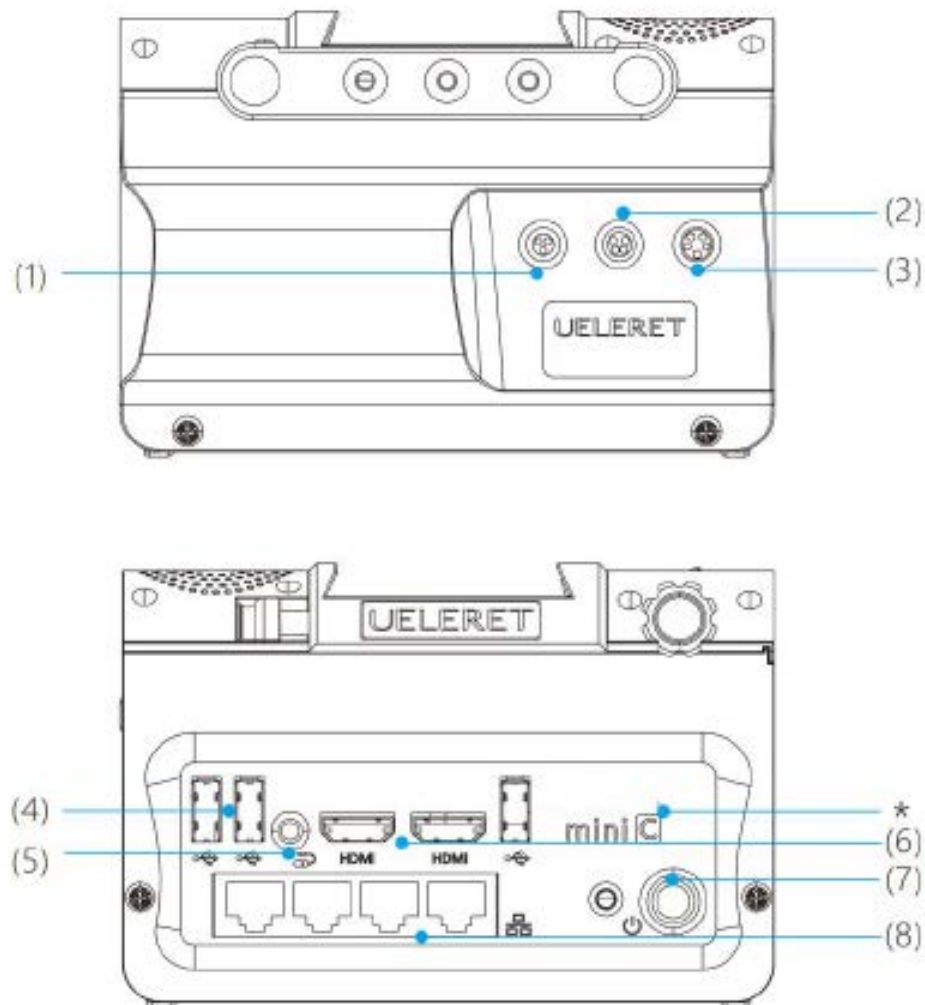




Name of each parts of Remote Camera Assistant mini

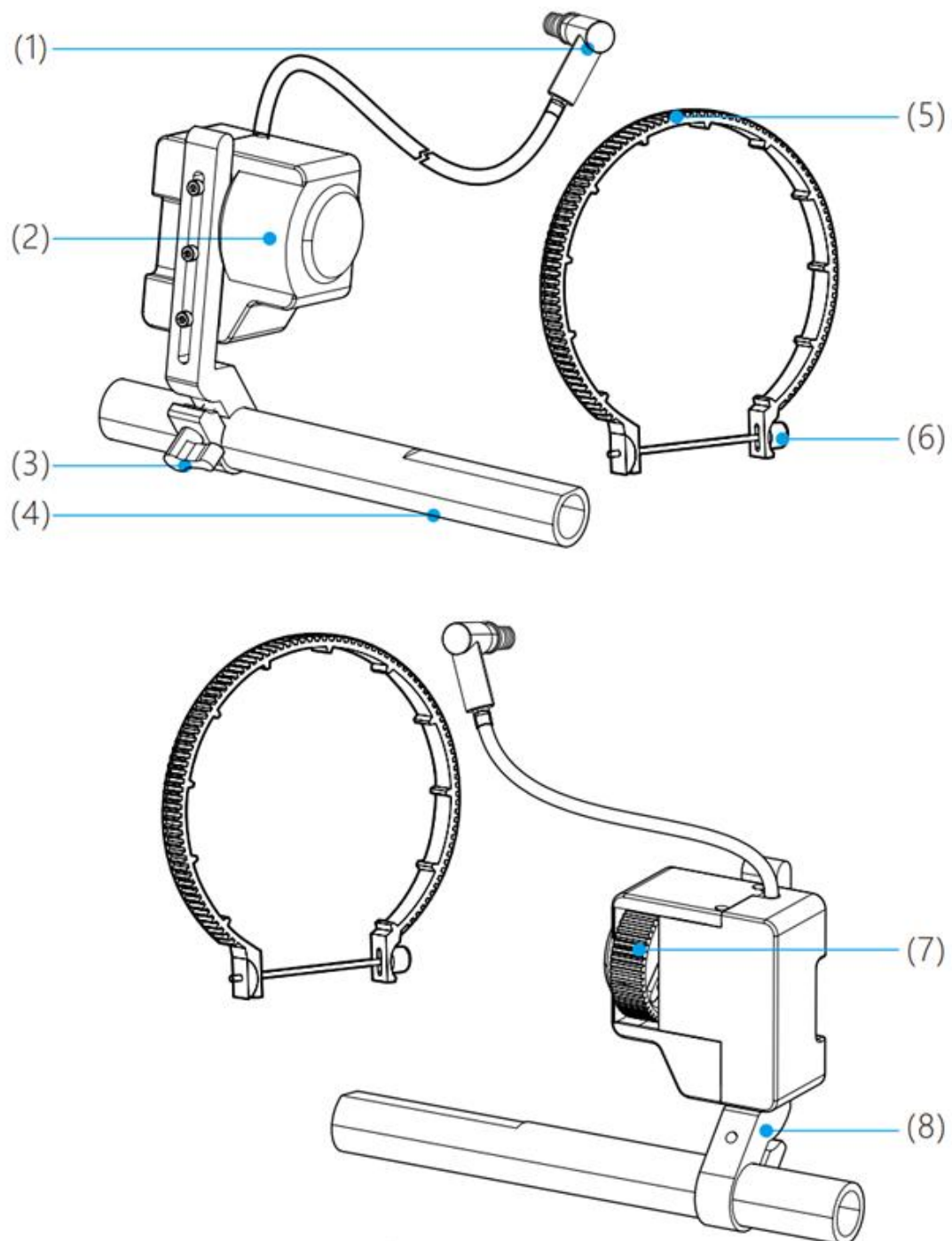
- 1.Smart stabilizer
- 2.Rotary support base
- 3.Shooting direction base
- 4.Low position camera board
- 5.Small antenna
- 6.Zoom ring
- 7.Lens zoom controller
- 8.Camera power cable
- 9.Zoom cable
- 10.stabilizer power cable
- 11.Digital camera (not included in this product)
- 12.USB cable
- 13.HDMI cable
- 14.Standard battery
- 15.cable clamp
- 16.Antenna bracket
- 17.Loudspeaker support base
- 18.Quick release plate fastening thumb knob
- 19.Stabilizer shelf
- 20.trail camera interface
- 21.Lens zoom fixed base
- 22.Signal light
- 23.Shooting direction base thumb knob
- 24.stabilizer power interface

Each interface functions of smart stabilizer



1. Lens zoom controller power interface
 2. Battery converter power interface
 3. Backup power interface
 4. USB cable interface (2 pcs)
 5. Shutter cable interface
 6. HDMI cable interface (2 pcs)
 7. Power switch
 8. Network cable interface (4 pcs)
- * C stand for camera brand version

Lens zoom controller accessories



1. Power plug
2. Lens zoom controller
3. Fastening knob
4. Lens zoom controller fixed rod
5. Driven gear
6. Zoom ring fastening knob

7. Active gear
8. Lens zoom controller bracket

Parts functions introduction of Remote Camera Assistant mini

1. Smart stabilizer

(1) Normal erection, pitch angle: 22° down, 40° up (horizontal balance is 0°).

Rotation angle: leftward 130°, rightward 130°.

(2) Weight: ≈ 2.5 KG

(3) Load capacity: <3.6KG

2. Lens zoom controller accessories

(1) After using the Remote camera assistant mini, the frequency of using the zoom lens on the digital camera will significantly increase. Photographers can capture shots of animals while keeping a safe distance, allowing the animals to move around with greater peace of mind and up close to the digital camera. Using the zoom lens enables adaptation to various situations.

(2) The lens zoom controller is used to drive the expansion and contraction of the zoom lens, enabling the lens zooming.

(3) The zoom ring installed on the zoom lens comes in various specifications (depending on the diameter of the lens).

Notes:

1.Soft material zoom ring: Inner diameter 40-84mm. When using small-bodied cameras with medium-short focal length lenses, these lenses do not have lens brackets, and the quick-release plate is mounted on the bottom of the camera body. If a hard material zoom ring is used, it may collide with the quick-release plate during zooming. This issue can be avoided by using a soft material zoom ring. You can download a detailed demonstration of installing short focal length lenses on the official website.

2.After installing the battery grip and handle on the camera, the height of the camera body increases, allowing the use of a hard material zoom ring.

3.Even if the total weight of the camera body and lens is within 3.6 kg, but if the lens is too long, it can affect the balance of the stabilizer. Insufficient pitching force may occur during tilting, making it unable to drive the zoom function. Therefore, please be cautious about using long lenses.

4.When using a fixed focal lens, the lens zoom controller can be used as a focus controller, similar to manual focusing.

5.Manual focusing may be used in the following situations:

(1) When shooting subjects with very weak background contrast or minimal color differences, the autofocus function may have difficulty distinguishing and focusing accurately.

(2) When the subject to be focused on is being interfered by other objects, making the autofocus function be difficult to accurately focus on the desired subject.

(3) When using a telephoto lens and the desired focal distance is significantly different from the current focal distance, the autofocus (AF) may lack sufficient driving force to achieve clear focus. In such cases, it is common to perform manual focusing to gradually achieve clarity and then switch to AF for faster and accurate focusing.

3. Shooting Direction Base

(1) Due to the presence of power, communication, and digital signal transmission cables between the smart stabilizer and the installed shooting equipment, it is difficult to achieve a 360° arbitrary rotation. The Remote Camera Assistant mini has a shooting angle of 130° to both left and right. The stabilizer support base is marked with a triangle as a reference for the rotation angle of the stabilizer.

(2) When setting up a tripod in water or muddy ground, the following situation may arise: If the tripod is inserted into water or placed on muddy ground before installing the smart stabilizer, it may not be possible to achieve 130° rotation angle in both left and right directions for the required shooting angle. Then it will be quite inconvenient to adjust the direction of the tripod.

Therefore, it is recommended to install the shooting positioning base on the tripod in advance. This will provide a clear indication of the orientation of the tripod, ensuring that 130° rotation angle in both left and right directions for shooting can be achieved.

4. Power Supply Battery

(1) The Remote Camera Assistant mini requires two batteries. One is the standard battery (24V 73Wh), and the other one is the battery for the signal transmitter (12V 86.5Wh). Both batteries comply with boarding requirements.

(2) The standard 73Wh battery is used to power the smart stabilizer.

(3) There are two options for large-capacity batteries:

One option is the UBO2 smart battery pack, which is composed of six batteries. It allows remote monitoring of battery power and displays the remaining power on a tablet. Users can have a clear understanding of the battery capacity. This battery pack is suitable for air travel and can be carried on board. Before going through airport security, the six batteries need to be detached and placed separately for inspection. If user frequently travels by plane for photography purposes, this battery pack is recommended.

One option is the standalone UBO1 battery. It cannot be remotely monitored for battery level and is not suitable for air travel. It is more affordable and convenient for carrying during car trips for photography purposes. The battery level displayed on a tablet will always show 50% regardless of the actual battery level until it is completely depleted, at which point it will display 0.

(4) The battery for the signal transmitter cannot be remotely monitored for battery level, but it has an indicator light on the battery itself to display the battery level. Since this battery is used while in close proximity to the user, there is no need for remote monitoring of battery level.

Battery Usage Time:

With one standard battery, continuous operation of the smart stabilizer and shooting can provide 1.5 hours of power. In standby mode (intermittent operation of the stabilizer), it can provide 4.2 hours of power.

(2) With a large-capacity battery or smart battery pack, continuous operation of the smart stabilizer and shooting can provide 6-7 hours of power. Intermittent operation of the stabilizer can provide 12 hours of power.

(3) The Remote Camera Assistant mini has a power-saving sleep mode. During hibernation mode, the stabilizer stops working, and only the power required for restarting the stabilizer is retained, with no communication signals transmitted. When the sleep time ends, the stabilizer will automatically power on and resume operation. For specific instructions, please refer to the "Power-saving operation and hibernation mode settings for the remote camera assistant mini" section.

5.External Camera Battery Converter (Optional Accessory)

(1) List of Canon camera models compatible with the power converter.

(2) When using the camera's original battery, it may not guarantee sufficient battery life. Having to replace the battery on-site during a shoot can disturb animals and disrupt the planned photography session.

(3) By using the power supply from the smart stabilizer, the insufficient battery life of the camera can be resolved. Yueguang Intelligent has developed camera battery converters for different camera models.

Camera Model	Battery converter Model
R3/1DX Mark III/1DX Mark II	U/DR-E19
5D Mark IV/5D Mark III/6D/6D Mark II/7D/7D Mark II/90D/80D	U/DR-E6
R5/R5C/R6/66 Mark II/R7	
R8/R10/800D/200D II	U/LP-E17

6.Omnidirectional Antenna

(1) Including 4 omnidirectional antennas.

(2) They are used for wireless signal transmission between the smart stabilizer and the controller.

(3) 2 antennas are installed on the smart stabilizer, and the other two antennas are installed on the signal transmitter.

7.Set of Connection Cables

(1) The camera battery converter and lens zoom controller each come with 1 cable, while the power supply cable for the smart stabilizer is a separate cable.

(2) The data cable and shutter cable required for the camera are grouped together.

(3) The connectors for the cables have unique shapes and a single interface, making them

easy to connect without the need for special markings.

8.Signal Transmitter

(1) Used at the handle operating end, it has a storage bracket at the bottom, allowing it to be placed on the ground or at a higher position.

(2) It transfers the signals received by the omnidirectional antennas to the tablet and the operating handle.

(3) The signal transmitter can be separated from the operating handle and tablet, but the separation distance should not exceed 100 meters. Beyond 100 meters, the wireless signal weakens, resulting in insufficient signal strength and affecting the performance of the tablet and operating handle.

(4) The operating handle and tablet are connected via Bluetooth.

(5) Set up the transmitter relay as high as possible to reduce the blocking of communication signals. When the distance between the signal repeater and the camera is more than 300 m, the signal repeater must be more than 1 m from the ground.

9.Operating Software (Android System)

10.Operating Handle

*Note: For details on items 10 and 11, please refer to the "Smart Photography Handheld Software User Manual" (Canon Edition) for more information.

Chapter 2: Installation of Smart Photography Handheld Mini Product

Prepare in advance, inspect items and pack neatly (Strongly Recommended, develop a Habit)

1.The User must ensure that the batteries are charged in advance. Before setting out for a shoot, check the battery levels of various devices to ensure they are sufficiently charged.

(1) Battery level of the tablet/phone.

(2) Battery level of the power source for charging the tablet/phone (e.g., power bank).

(3) Battery level of the signal transmitter.

(4) Battery level of the intelligent gimbal system.

(5) Battery level of the operating handle.

2.If you will be using a zoom lens for this shoot, it is recommended to install the zoom ring securely on the lens you will be using in advance. This will save time during the on-site setup.

(2) insert the locking screw and tighten it.

*When installing the zoom ring, it is important not to over tighten it. If it is excessively tightened, it can cause deformation of the circular shape, resulting in poor zoom operation. The zoom adjuster may have difficulty driving the zoom, produce loud noises, or even fail to operate the zoom.

*To check the tightness of the zoom ring installed on the zoom lens is appropriate. After installing the zoom ring, try rotating the lens by hand. It should have a similar tightness as when the zoom ring was not installed.

When using a quick-release plate, the zoom ring locking screw needs to be installed on the right side of the lens, ensuring that it does not interfere with the mounting bracket of the quick-release plate during zooming.

3.Before departure, it is recommended to pre-install the camera quick-release plate to save time during on-site setup.

4.Set the desired mode on the camera in advance, such as AF-C mode,. This function is manually switched on the camera and cannot be controlled by the software.

5.Check all components and connections to ensure nothing is missed, and pack everything properly for quick and efficient transportation.

Site Survey and Selection for Shooting (Strongly Recommended, Develop a Habit)

1.Clearly define the shooting objectives for this session and carefully observe the shooting location. Determine the placement position for the smart stabilizer and the desired location for operating the handle or parking the car.

2.Based on the shooting scene and subject, first choose the placement point for the tripod and determine the desired height for the tripod support.

3.It can be inconvenient for user to install the smart stabilizer and camera first, and then search for the placement point and adjust the height of the tripod.

Installation steps of smart stabilizer

The installation of the remote camera assistant mini can vary depending on the shooting location, such as different installations for hard land surfaces and water or muddy areas.

Case 1: Smart stabilizer installed on a hard floor

1. Mount the shooting direction base on the tripod.

Note: When installing on a hard floor, it may not be necessary to use the shooting direction base. However, it is still recommended to install the shooting direction base on the tripod or low-level shooting board as it provides more convenience during equipment setup.

(1) Install the shooting positioning base on the tripod and tighten it.

(2) Position the tripod according to the desired shooting direction indicated on the shooting positioning base. Observe the air level to ensure the tripod is level.

2. Mount the smart stabilizer on the shooting direction base.

(1) Align the square portion on the stabilizer support base with the part on the shooting positioning base that has a hand-screwed screw. Mount the stabilizer on the base and tighten the locking knob. (Note: The side of the stabilizer with the triangular symbol should be facing away from the subject being photographed). Rotate the stabilizer until the rotation angle positioning markers (two triangles) are aligned, ensuring that the shooting angle is in the desired direction. If the arrows are not aligned, the smart stabilizer will not be able to achieve a 130° rotation to the left and right.

Please note that when mounting the stabilizer, the "▲ stabilizer rotation position" marking on the bottom sleeve should be facing away from the subject being photographed.

After tightening the knob on the shooting direction base, manually rotate the stabilizer back to align with the rotation angle positioning markers (two triangles).

3. Install the lens zoom controller.

(1) Screw the zoom controller fixed rod into the screw hole on the front of the stabilizer

(choose the hole on the left or right side based on the zoom requirements) until it cannot be turned further.

(2) Loosen the locking nut on the lens zoom controller and insert the bottom circular hole onto the fixed rod.

If the camera lens is not a zoom lens, there is no need to install this component.

(3) Tighten the fastening knob on the zoom controller clockwise to secure the zoom controller onto the fixed rod.

4. Attach the zoom ring to the camera lens.

If it was already installed beforehand or if using a fixed lens, this step is not necessary.

5. Mount the camera onto the smart stabilizer.

(1) Mount the camera with the lens installed (and the zoom ring attached if applicable) onto the quick-release plate. Align the thumb screw on the quick-release plate with the 3/4 screw hole on the bottom of the camera and tighten it.

(2) Place the quick-release plate with the camera and lens onto the quick-release plate bracket of the stabilizer.

(3) Tighten the thumb nut on the quick-release plate clockwise to secure the quick-release plate in place and prevent it from sliding.

6. Install the camera battery converter

(If using the camera's built-in battery, this step is not necessary.) Please refer to Chapter 1, Point 7 for the specific installation of the camera battery converter.

Note: When using the camera's original battery, the operating time may be limited due to battery capacity.

7. Match and connect the cables according to the markings on the main control board.

Using Canon R5 camera as an example:

- (1) Insert one end of the HDMI cable into the HDMI port of the digital camera, and connect the other end to the HDMI port on the back panel of the stabilizer.
- (2) Insert one end of the USB cable into the USB port of the digital camera, and connect the other end to the USB port on the back panel of the stabilizer.
- (3) Insert one end of the shutter cable into the shutter port of the digital camera, and connect the other end to the corresponding shutter port on the back panel of the stabilizer.
- (4) Connect the camera battery converter cable as instructed in Chapter 1, Point 7 of the battery converter installation guide. (This step is not necessary if using the camera's original battery.)
- (5) Connect the power cable of the lens zoom controller to the power port on the front panel of the stabilizer.
- (6) Connect the power cable of the standard battery, with one end inserted into the battery interface on the side of the stabilizer and the other end plugged into the 24V output port of the standard battery.

Note: When connecting the power cable to the stabilizer's power interface, make sure to align the directional markings on the interface before insertion.

8. Screw the two omnidirectional antennas clockwise onto the corresponding interfaces at the top of the stabilizer antenna arm.

9. Move the lens zoom controller.

Align the teeth on the adjustment wheel of the lens zoom controller with the zoom ring (This step is not necessary for fixed focal length lenses without a lens zoom controller).

10. Ensure a tight fit between the lens zoom controller and the camera lens zoom gear.

If using a fixed zoom controller without installing a lens zoom controller, the following steps are not needed.

(1) Loosen the fastening knob counterclockwise.

(2) Align the gear on the lens zoom adjuster with the gear on the zoom ring, following the illustrated direction.

(3) Tighten the lens zoom controller in place.

Note: It is important to use your finger to press down on the metal rod of the lens zoom controller, ensuring tight engagement between the two gears before tightening the thumb knob. Pressing on the plastic casing may result in loose engagement.

Case 2: Installing the smart stabilizer on water or muddy ground

When installing the stabilizer on a water surface or muddy terrain, it is necessary to first mount the shooting direction base on the tripod. This is because once the tripod is inserted into the muddy ground or water, it becomes difficult to make adjustments.

Additionally, the process of retrieving items and moving back and forth between muddy paths and water can be quite inconvenient for the user.

Therefore, different installation steps should be taken in such scenarios.

1. Install the shooting direction base.

When installing on a hard floor, it is not necessary to mount the shooting direction base on a tripod.

(1) Mount the shooting direction base on the tripod and tighten it.

(2) Based on the desired shooting direction at the shooting site, insert the tripod into the water or mud according to the indications on the shooting direction base. Observe the air level and adjust it to ensure it is level.

2. Place the smart stabilizer on the car seat or a hard surface.

After installing the following items on the stabilizer, the entire assembly is then installed on the tripod at one time. The specific steps are as follows:

(1) Install the camera and lens on the stabilizer and tighten them.

(2) Install the zoom ring on the camera lens (this step is not necessary if it was installed in advance).

(3) Install the circular support rod of the lens zoom controller on the stabilizer and tighten it.

(4) Install the lens zoom controller on the circular support rod, ensuring it is securely in place. Plug the power connector into the corresponding power interface on the front panel.

(5) Insert the cables into the corresponding ports on the front and rear panels of the stabilizer, following the color indicators.

- (6) Adjust the position of the camera on the stabilizer to the desired position and tighten the quick-release plate.
- (7) Securely attach the lens zoom controller to the camera lens's zoom ring.
- (8) Align the triangle on the stabilizer and then follow the direction indicated by the shooting direction adapter ring. Insert the entire assembly into the shooting direction base on the tripod and tighten it.
- (9) Once the desired shooting direction is confirmed, the installation is complete.

Chapter 3. On-site debugging of the smart stabilizer

1. Install the battery for the signal transmitter at the bottom of the device. Attach the two omnidirectional antennas to the signal transmitter. Open the support bracket at the bottom of the signal transmitter and place it on a suitable surface.
2. Connect the power cable of the signal transmitter to the battery and turn on the power switch.
3. Turn on the tablet/mobile phone and connect to the Wi-Fi signal to establish a stable connection.
4. Connect the operating controller via Bluetooth to ensure a successful connection with the tablet/mobile phone.
5. Open the tablet/mobile phone to display the live view from the camera.
6. Debug various functions on the tablet/mobile phone to ensure they can be operated smoothly.
7. Debug the operating controller's rotation and tilt functions, as well as the lens zoom controller, to ensure that the camera lens zooms properly.
8. Debug the operating controller's focus point movement, focus, shutter button, and camera shutter release function to ensure their proper operation.
9. On the camera body, determine the number of shots for high-speed continuous shooting and the image format (RAW or JPEG). Once determined, the software cannot adjust the number of shots or select the image format.
10. Take photos and record videos to confirm that the shooting and recording are working properly.
11. After completing the above steps, leave and proceed to the predetermined shooting location.

Chapter 4. On-site preparation for remote shooting

- (1) Upon reaching the designated location for operating the controller or parking the car, use a rangefinder to ensure the distance between you and the smart stabilizer, ensuring it is within 500 meters.
- (2) Set up the signal transmitter at your end, preferably in a high position to minimize obstacles that may block the communication signal. Ensure there are no significant obstructions between the antennas, ideally with a clear line of sight. If the distance to the camera is over 300 meters, the signal transmitter must be positioned at least 1 meter above the ground.
- (3) Connect the power cable to the signal transmitter.
- (4) If the shooting subject and you are at a safe distance where there is no need for hiding or obstruction, and you will not affect the safety and movement of the subject, then you can stay together with the operating controller, tablet, and signal transmitter.
- (5) If the shooting subject and you are not within a safe distance, you need to hide or obstruct yourself, or you need to stay in the car to avoid disturbing the subject's safety and movement, then you can separate from the signal transceiver, with a separation distance of up to 100 meters.
- (6) Hold the operating controller and tablet behind cover and obstructions (such as inside the car, behind trees, bushes, rocks, etc.), while the signal transmitter with the smart stabilizer antennas is set up on a tripod in an unobstructed position and kept separate within a distance of up to 100 meters.

Chapter 5. On-site debugging of the remote camera assistant for remote shooting

Debugging the tablet/mobile phone, software, and operating controller. Please refer to the detailed instructions in the software manual for specific operations. Here is a brief overview:

1. Securely attach the tablet/mobile phone to the operating controller.
2. Turn on the tablet/mobile phone and connect to a Wi-Fi network.
3. Connect the operating controller via Bluetooth.
4. Tap on the remote camera assistant control software on the tablet/mobile phone, and the real-time display screen will appear by default.

5. Debug the various functions on the tablet/mobile phone to ensure they can all be operated.
6. Debug the operating controller to ensure its functions are working properly.
7. If everything is working properly, you can proceed with the shooting and patiently wait for the subject to appear. If the image from the smart stabilizer is not displayed or the operation is not smooth, carefully review the installation steps for any potential issues.

Chapter 6. Power-saving operation and hibernation mode settings for the remote camera assistant mini

Power-saving operation and hibernation mode settings for the remote camera assistant mini

1. In the absence of operating controller and when the stabilizer is not running, although the battery usage can be extended, the stabilizer system is still active, maintaining communication and consuming power.

2. This setting serves two purposes: energy saving for long battery life and timed power on/off of the stabilizer. It helps users capture shots during the optimal lighting conditions.

3. The sleep mode setting may be needed in the following situations:

(1) The remote camera assistant is pre-installed at the shooting location instead of installing it on-site before shooting, which minimizes disturbance to animals and birds.

[For example, the user sets up the remote camera assistant at the chosen shooting location the evening before (before 6 PM) and schedules it to power on half an hour before sunrise the next morning (around 5:30 AM). This way, the device will automatically power on, and the user can remotely control it for shooting without having to go to the site in person. This approach avoids disturbing animals and saves the user time and effort. Without the sleep mode setting, the device would consume power continuously from at 6 PM on the previous day, even though there is no operation, the remaining battery capacity may not be sufficient for shooting the next day.]

(2) After capturing shots in the morning during good lighting conditions, the subsequent lighting, especially during the midday period, becomes too intense, resulting in poor image quality. Without the sleep mode setting, the device would continue to consume power, and by the time the suitable shooting time in the afternoon arrives, the battery capacity may not be sufficient for the desired shooting duration.

(3) Shooting, the owner needs to stop shooting for a longer period of time, such as eating, resting, a little urgent need to leave for a few hours, etc.

4. The Remote Camera Assistant mini relies on wireless communication to connect the two

ends of the device to keep able to operate and the device running. When it goes into hibernation, the signal at both ends will be interrupted. Without the wireless signal, it will not be possible to operate the device remotely. If the signal is not interrupted, it means that the device has not entered the hibernation state, still running and the device is still constantly consuming power. Therefore, the Remote Camera Assistant mini solution is: set the sleep mode time.

5. After the sleep mode, the Remote Camera Assistant mini automatically start the power, smart stabilizer starts to run and resume transmission of wireless signals. At this time you can operate the tablet / phone and handle, remote control equipment and camera.

6. Specific operation procedure

a. Click "Sleep Mode Settings" in the upper right corner of the tablet (Sleep mode on the phone is in the lower right corner of More Functions).

b. In pop-up interface, set the "start time" and "end time".

c. The tablet will automatically calculate the "sleep mode duration".

d. On the page "Confirm" and "Cancel", if you change your mind, you can click "Cancel".

e. Click "Confirm", Remote Camera Assistant mini starts to enter the sleep mode according to the set time.

7. During sleep mode, the status of the device cannot be changed via the tablet, because there is no communication signal transmission from both ends. You must wait until the sleep time is over, the Remote Camera Assistant mini power automatically start, and you can enter the operation after there is communication signal. Unless, you have to manually start the power switch of Remote Camera Assistant mini to operate the device. But this will affect the animals at the shooting site, and it is possible to disturb the animals to leave the shooting site resulting in the inability to continue shooting.

8. When setting the sleep mode, please pay attention:

a. Before setting the sleep mode, according to the needs of shooting, please carefully considering the time of this sleep, so as not to delay the effective shooting.

b. Check the time of the tablet with the phone and watch.

It is possible that the tablet is not in the mobile network when it is outdoors. Therefore, the time of the tablet may not be consistent with the actual time. Therefore, it is better to check the time of the tablet with your cell phone or watch before setting the hibernation time.

There are two ways to check and adjust the time:

a. The tablet is connected to a 4G/5G network by connecting to a mobile hot spot and the time can be adjusted automatically.

b. If there is no local 4G/5G network, you can directly adjust the time on the tablet to match the time on the watch.

9. To set the Sleep mode, the following conditions must also be met:

(1) The camera power supply uses the battery converter developed by Yueguang Intelligent, and uses the stabilizer power supply for remote power saving hibernation operation.

(2) During the hibernation mode of the Remote Camera Assistant mini, the camera remains powered on even when using the original camera battery. The hibernation function of the Remote Camera Assistant mini does not contribute to power saving for the camera.

Chapter 7. Product specifications and technical parameters

Smart stabilizer technical index

Main engine:

Stabilizer weight : 2.5kg

Maximum load : < 3.6 kg

Operating voltage : 24V

Rated Power : 16W

Stabilizer size : 295*257*105mm

Operating temperature : 0°-45°

Endurance : \geq 1.5h (uninterrupted use)

Rated current : 1.5A

Smart stabilizer operation index

Stabilizer Parameters:

Movement Angle : Leftward 130°, Rightward 130°

Structure self-locking : No

Horizontal rotation: Left to 130°, right to 130°

Up and down tilt : Down 22° Up 40°(horizontal forward 0°)

Environmental Indicators

1. Operating temperature: 0~+45°C (using the Yueguang intelligent production of cold cover can work in colder temperatures).
2. Storage temperature: 0~+40°C
3. Storage humidity: 20%~60%

Chapter 8. Safety precautions for the remote camera assistant mini

For safe use of the product, be sure to read these precautions.

Please follow these precautions to prevent damage or injury to user or others.

Warning: Indicates a risk of serious injury or dead.

1. Please keep the product out of the reach of children. Power cords, cords and straps wrapped around a person's neck may cause suffocation.
2. It is dangerous to swallow the product parts or accompanying items or accessories. If

swallowed, please seek medical attention immediately.

3. Swallowing batteries is dangerous. If swallowed accidentally, seek medical attention immediately.

4. Use only the power source specified in these instructions for use with the product.

5. Do not disassemble or modify the product.

6. Do not subject the product to strong impact or vibration. Do not touch any exposed internal parts.

7. Do not use of the product if there is any abnormality such as smoke or odor.

8. Do not use organic solvents (alcohol, gasoline or paint thinner) to clean the product.

9. Do not get the product wet. Do not insert foreign objects into the product or pour liquid into the product.

10. Do not immerse the battery in water.

11. Do not use the product in an environment where flammable gases may be present. Failure to do so may result in electric shock, explosion or fire.

12. Do not touch the product when it is connected to an electrical outlet during a thunderstorm. Failure to do so may result in electric shock.

13. When using the battery charger or AC adapter, follow the precautions below :

(1). Use the battery only for the specified product.

(2). Do not heat the battery or expose it to ignition sources.

(3). Do not use a battery charger other than the specified one to charge the battery.

(4). Do not expose the terminals to dust or contact with metal nails or other metal objects.

(5). Do not use leaking batteries.

(6). When handling the battery, isolate the terminals with tape or by other means.

(7). Do not touch the battery charger or AC adapter connected to the power outlet during a thunderstorm. Failure to do so may result in electric shock, explosion or fire.

(8). If the battery leaks and the leaking material comes in contact with skin or clothing, rinse the contact area thoroughly with running water.

(9). In case of contact with eyes, rinse thoroughly with plenty of clean running water and seek immediate medical attention.

(10). Use a dry cloth to regularly clean all dust accumulated on the power plug and power outlet.

(11). Do not plug or unplug the power plug with wet hands.

(12). Do not use the product without the power plug fully inserted into the power outlet.

(13). Do not expose the power plug and terminals to dust or allow them to come into contact with metal nails or other metal objects.

(14). Do not place heavy objects on the power cord. Do not damage, break or modify the power cord.

(15). Do not wrap the product in cloth or other material while the product is in use or when it has just been used and is still hot.

(16). Do not unplug the power supply by pulling on the power cord.

(17). Do not leave the product connected to the power supply for long periods of time when not in use.

(18). Do not charge the battery at temperatures outside the 0-40° C range. Otherwise, it may cause electric shock, explosion or fire.

(19). Do not leave the product in contact with skin in same position for a long time during use.

(20). In places where the use of the product is prohibited, please follow the signs to turn off the product. Otherwise, the influence of electromagnetic waves may lead to the failure of other equipment, and may even cause accidents.

△ Attention: Please observe the following precautions. Failure to do so may result in personal injury or property damage.

1. Do not place the product in a high or low temperature environment. The temperature of the product may become high or low and may cause burns or injuries when touched.
2. In addition, do not shake the product or subject it to strong impact.
3. Do not squeeze the product by force or cause it to collide with objects. Doing so may cause injury or damage to the product.
4. Please install the product on a sufficiently stable tripod or fixture
5. Do not touch any parts inside the product. Otherwise, it may cause injury.
6. If an abnormal reaction or inflammation of the skin occurs during or after the use of this product, please stop further use and seek medical attention promptly.

Operating precautions: (Maintenance of Remote Camera Assistant mini equipment)

1. This equipment is a precision instrument. Do not drop it or expose it to physical impact.
2. This equipment is not waterproof and cannot be used underwater.
3. To prevent sand, dust, dirt or water from accidentally falling on the equipment and getting inside the equipment, the equipment is designed to be dust-proof and drip-proof, but it cannot completely prevent dirt, dust, water or salt from getting inside the equipment. Try not to let dirt, dust, water or salt fall on the equipment.
4. If water falls on the equipment, wipe it off with a clean, dry cloth. If dirt, dust or salt falls on the equipment, wipe it off with a clean, damp, wrung cloth.
5. Using the product in a dusty or dirty location may cause damage to the equipment.
6. It is recommended to clean the equipment after use. Leaving dirt, dust, water or salt on the equipment may cause equipment failure.
7. If the device accidentally falls into water or if you are concerned that moisture (water), dirt, dust, or salt may have entered the device, contact Yueguang Intelligence immediately.
8. Do not place the product near objects with strong magnetic fields, such as magnets or motors. Also avoid using the device near objects that emit strong radio waves or placing the device close to such objects, such as large antennas. Strong magnetic fields may cause equipment malfunction or damage image data.
9. Do not place the equipment in places where the temperature is too high, such as in a car in direct sunlight. High temperatures may cause the device to malfunction.
10. The equipment contains sophisticated electronic circuitry. Do not disassemble the equipment yourself.
11. Do not use cleaning agents containing organic solvents to clean the body and lens.
12. If condensation occurs on the equipment, do not use the equipment to avoid damage. Please turn off the equipment and wait until all the moisture has evaporated before using it again.

13. If the device is not used for a long time, disconnect the battery and place the device in a well-ventilated, dry and cool place. Please use the device every once in a while during storage to make sure it works properly.
14. Avoid storing the equipment in places where there are chemicals that cause rust and corrosion, such as chemical laboratories.
15. If the equipment has not been used for a long time, test all functions before shooting.

Chapter 9. Power supply specifications and maintenance

1. Battery specifications and parameters list

UB01 Large capacity battery

Battery type: Rechargeable lithium-ion battery

Nominal voltage: 25.9V

Charging current: Standard charging 0.2°C

Fast charging 0.5°C

Operating temperature: Charging 0°C ~45°C

Discharging: -20°C~60°C

Rated capacity :372WH(Watt/hour)

Charging voltage : 29.4 V

Charging time: Standard charging 6 hours

Fast charging 4.5 hours

Battery size: 155mmX88mmX76mm

Battery weight: 1720g

UB04 standard battery of remote camera assistant mini

Battery type: Rechargeable lithium-ion battery

Nominal voltage: 12V

Charging current: Standard charging 0.2C

Fast charging 0.5C

Operating temperature: Charging: 0°C~45°C

Discharging: -20°C-60°C

Rated capacity: 73WH(Watt/hour)

Charging voltage: 12.6V

Charging time: Standard charging 4 hours

Fast charging 2 hours

Battery size: 130mmX80mmX39mm

Battery weight: 418g

YSN-12010800 Battery (Signal transmitter power supply)

Battery type: 12V lithium battery (18650)

Rated capacity :86.5WH(Watt/hour)

Nominal voltage : 11.11 V

Charging current: Standard charging 0.2°C

Fast charging 0.5°C

Operating temperature: Charging 0°C ~45°C

Discharging -20°C~60°C

Charging voltage : 12.6V

Charging time: Standard charging 8 hours

Fast charging 4 hours

Battery size: 138mmX80mmX39mm

Battery weight: 520g

2. Battery usage precautions

(1) Charge

- a. When using the included adapter to charge the battery, the indicator light on the adapter will display red.
- b. It is necessary to first switch the power button to the discharge state "-" before charging.
- c. When the battery is fully charged, the indicator light will turn green, which means it is fully charged and can be unplugged for use when it is full.
- d. When the tablet computer shows a low battery alert signal, you should try to recharge in time.
- e. When the battery level is below 25%, it is advisable to charge it promptly.

(2) Discharge

- a. Use the factory-configured flight plug cable, one end connected to the battery discharge port, one end connected to the Remote Camera Assistant power interface. Turn on the battery switch, you can discharge.
- b. Discharge will generate heat, if used outdoors in strong light, please put the battery in the shade, and pay attention to ventilation and heat dissipation.
- c. When the tablet displays a low battery alert signal, please try to turn off the power to avoid over-discharge.

(3) Battery maintenance

To prolong the life of the battery, please maintain it as follows:

- a. The lithium battery needs to be placed at a suitable temperature, 25°C is appropriate.
- b. The charging method of lithium battery is the most important among the correct usage of lithium battery. Incorrect charging method can cause safety

problems; correct discharge and daily maintenance can extend the life of the battery.

c. Use the matching adapter for charging. Too high charging voltage will overcharge the battery, and vice versa, undercharge will occur.

d. If the battery has not been used for a long time (e.g. 30 days), the owner must remember to complete a deep charge and discharge cycle for the lithium battery once a month.

Chapter 10: Wireless communication

1, Wireless LAN data and restrictions, when using wireless networks, please be sure to follow local regulations.

2. Operating frequency range :

operating handle : 2402-2480MHz

the signal transmitter : 5180-5240 MHz (802.11a/n ht20)/5745-5825 MHz (802.11a/n ht20)

the Intelligent Gimball : 5180-5240 MHz (802.11a/n ht20)/5745-5825 MHz (802.11a/n ht20)

3.Maximum Conducted Output Power :

operating handle : -13.97dBm

the signal transmitter : 5150-5250 MHz: 19.58dBm, 5725-5850 MHz: 19.47dBm

the Intelligent Gimball : 5150-5250 MHz: 20.09dBm, 5725-5850 MHz: 19.16dBm

Note:

1, Do not change the transmission power without authorization, increase the transmission power (including additional RF power amplifiers), and do not connect external antennas or use other transmission antennas without authorization;

2, Do not cause harmful interference to various legal radio communication services during use: once any interference is found, stop using it immediately and take measures to eliminate the interference before continuing to use it;

3, The use of micro-power radio equipment must endure interference from various radio services or radiation interference from industrial, scientific and medical application equipment;

4, Not for use near airplanes and airports.

Chapter 11. Product Certification and Compliance

1.Certification

The batteries used in this device have passed national safety standard tests and will also undergo CCC certification according to the latest national requirements (before August 1, 2024). The charger used has already obtained CCC certification (for related certifications, please refer to the Ueleret Smart official website at www.ueleret.com.cn).

FCC Caution:

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

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.

FCC Radiation Exposure Statement:

The Operating Handle complies with FCC radiation exposure limits set forth for an uncontrolled environment.

The Signal transmitter and the Intelligent Gimbal should be installed and operated with minimum distance 20cm between the radiator& your body.