### Packing List

The product package comes with the following items. In case that any item is found missing, please contact ZHIYUN or your local selling agent.

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crane 2 Three-axis Gimbal Stabilizer</td>
<td>1</td>
</tr>
<tr>
<td>Tripod</td>
<td>1</td>
</tr>
<tr>
<td>18650 Li-ion Battery</td>
<td>3</td>
</tr>
<tr>
<td>Battery Charger</td>
<td>1</td>
</tr>
<tr>
<td>Canon Camera Control Cable ZW-Mini-002</td>
<td>1</td>
</tr>
<tr>
<td>Canon Camera Control Cable ZW-Micro-002</td>
<td>1</td>
</tr>
<tr>
<td>Panasonic Camera Control Cable ZW-CTIA-002</td>
<td>1</td>
</tr>
<tr>
<td>Sony Camera Control Cable ZW-MULTI-002</td>
<td>1</td>
</tr>
<tr>
<td>Micro USB Cable</td>
<td>1</td>
</tr>
<tr>
<td>Storage Case</td>
<td>1</td>
</tr>
<tr>
<td>Shoulder Strap</td>
<td>1</td>
</tr>
<tr>
<td>User Guide</td>
<td>1</td>
</tr>
</tbody>
</table>

### Disclaimer and Warning

Thank you for using ZHIYUN CRANE 2. The information contains herein affects your safety and your legal rights and responsibilities. Read this entire document carefully to ensure proper configuration before use. Failure to read and follow the instructions and warnings herein may result in serious injury to you or bystanders, or damage to your device or property.

ZHIYUN reserves the right of final explanation for this document and all relevant documents relating to CRANE 2, and the right to make changes at any time without notice. Please visit www.ZHIYUN-TECH.com for the latest product information.

By using this product, you hereby signify that you have read this document carefully and that you understand and agree to abide by the terms and conditions herein. You agree that you are solely responsible for your own conduct while using this product, and for any consequences thereof. You agree to use this product only for purposes that are proper and in accordance with all terms, precautions, practices, policies and guidelines ZHIYUN has made and may make available.

ZHIYUN accepts no liability for damage, injury or any legal responsibility incurred directly or indirectly from the use of this product. Users shall observe safe and lawful practices including, but not limited to, those set forth herein.

ZHIYUN is the trademark of Guilin Zhishen Information Technology Co., Ltd. (hereinafter referred to as “ZHIYUN” or “ZHIYUN TECH”) and its affiliates. All product names or marks referred to hereunder are trademarks or registered trademarks of their respective holders.

### Glossary

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product.

**WARNING:** Procedures, which if not properly followed, may incur property damage, grave accident, or serious injury.

**CAUTION:** Procedures, which if not properly followed, may incur property damage and serious injury.

**NOTICE:** Procedures, which if not properly followed, may incur property damage or minor injury.
Disclaimer and Warning

Read the ENTIRE User Guide to become familiar with the features of this product before operating. Failure to operate the product correctly can result in damage to the product or personal property and cause serious injury. This is a sophisticated product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. DO NOT use with incompatible components or in any way otherwise as mentioned or instructed in the product documents provided by ZHIYUN. The safety guidelines herein contain instructions for safety, operation and maintenance. It is essential to read and follow all of the instructions and warnings in the User Guide, prior to assembly, setup or use, in order to operate the product correctly and avoid damage or serious injury.

CAUTION:
1. CRANE 2 is a high-precision control device. Damage may be caused to CRANE 2 if it is dropped or subject to external force, and this may result in malfunction.
2. Make sure the rotation of the gimbal axes is not blocked by external force when CRANE 2 is turned on.
3. CRANE 2 is not waterproof. Prevent contacts of any kind of liquid or cleaner with CRANE 2. It is recommended to use dry cloth for cleaning.
4. Protect CRANE 2 from dust and sand during use.

WARNING
To avoid fire, serious injury, and property damage, observe the following safety guidelines when using, charging, or storing your batteries.

Battery Safety Guidelines
1. Prevent the batteries to come into contact with any kind of liquid. Do not leave batteries out in the rain or near a source of moisture. Do not drop the battery into water. If the inside of the battery comes into contact with water, chemical decomposition may occur, potentially resulting in the battery catching on fire, and may even lead to an explosion.
2. If the battery falls into water with the stabilizer during use, take it out immediately and put it in a safe and open area. Maintain a safe distance from the battery until it is completely dry. Never use the battery again, and dispose of the battery properly as described in the Battery Disposal section below.
3. If the battery catches fire, use water, water spray, sand, fire blanket, dry powder, or carbon dioxide fire extinguisher immediately to put out the fire. Please extinguish the fire by applying the methods recommended above according to the actual situation.
4. Never use non-ZHIYUN batteries. If replacement or backup is needed, please purchase new batteries from ZHIYUN’s official website or authorized channels. ZHIYUN takes no responsibility for any damage caused by non-ZHIYUN batteries.
5. Never use or charge swollen, leaky, or damaged batteries. Never use or charge if the battery smells, or overheats (exceeding maximum temperature of 160°F / 71°C). If your batteries are abnormal, contact ZHIYUN or a ZHIYUN authorized dealer for further assistance.
6. The battery should be used within the temperature range from -10°C to 50°C. Use the battery in environments above 50°C can lead to a fire or explosion. Use of battery below -10°C can lead to serious battery damage.
7. Do not use the battery in strong electrostatic or electromagnetic environments. Otherwise, the battery protection board may malfunction.
8. Do not disassemble or use any sharp object to puncture the battery in any way. Otherwise, the battery may leak, catch fire or explode.
9. Do not mechanically strike, crush, or throw the battery. Do not place heavy objects on the battery or charger.
10. Electrolytes inside the battery are highly corrosive. In case of accidental contact of any electrolytes with your skin or eyes, rinse immediately with water for at least 15 minutes and seek medical advice as soon as possible.
11. Do not use the battery if it has been involved in a crash or heavy impact.
12. Do not heat the battery and never put the battery in a microwave oven or in a pressurized container.
13. Do not place the battery cell on a conductive surface (such as a metal desk surface).
14. Prevent use of wires or other metal objects that could cause positive and negative short-circuit to the battery.
15. If the battery terminal is dirty, wipe it with a clean, dry cloth. Otherwise it will cause a bad battery connection, which may result in energy loss or charging failure.

Battery Charging
1. Do not attach the batteries to a wall outlet or car charger socket directly. Always use a ZHIYUN approved adapter for charging. ZHIYUN takes no responsibility if the battery is charged using a non-ZHIYUN charger.
2. Do not put the battery and charger near flammable materials or on flammable surfaces (such as carpet or wood). Never leave the battery unattended during charging to prevent any accident.
3. Do not charge the battery immediately after use, because the battery temperature may be too high. Do not charge the battery until it cools down to normal room temperature. Charging the battery with its temperature over 40°C or lower than 15°C may lead to leakage, overheating, or damage.
4. Examine the charger before use, make sure there is no damage to the enclosure, cord, plug, or other parts. Never use a damaged charger. Do not clean the charger with any liquid containing alcohol or other flammable solvents. Disconnect the charger when not in use.

Battery Storage
1. Keep batteries out of the reach of children and pets.
2. Do not leave the battery near heat sources such as a furnace or heater, or inside of a vehicle on hot days. Never expose the battery in any environment with temperature of over 60°C. The ideal storage temperature is 22°C-28°C.
3. Store batteries in a dry environment.
4. Do not leave the battery unused for too long after it has been completely discharged to prevent over-discharge of battery which may result in battery damage and permanent failure.

Battery Maintenance
1. Never use the battery when the temperature is too high or too low.
2. Do not store the battery in any environment with a temperature of over 60°C.
Get to Know CRANE 2

Get to Know CRANE 2

Shines solid RED light when charging.
Shines BLUE light when fully charged.

**Charger Specifications**

Name: ZHIYUN 18650*3 Li-ion battery charger
Model: ZC-18650-3
Input: 5V → 2400mA
Output: 4.2V → 800mA*3

**Battery Specifications**

Name: ZHIYUN 18650 Li-ion battery
Model: IMR 18650
Capacity: 2000mAh
Voltage: 3.7V

**Notice:**

1. Please read the disclaimer and warning herein as well as the description on the battery label carefully before using the batteries.
2. The ZC-18650-3 charger is for charging ZHIYUN’s IMR 18650 Li-ion Battery only. Do not charge batteries of other models or brands, otherwise it may lead to accident.

⚠️ Please use and charge batteries provided or approved by ZHIYUN only. ZHIYUN will not take any responsibility for explosion, fire and/or accidents caused by non-ZHIYUN batteries.
Preparing and Charging the Batteries

Charging Procedure

1. Insert the batteries into the charger in the right direction (positive/negative end) accordingly.
2. Connect the charger to the adapter via the Micro USB cable.
3. Plug the adapter into the power outlet to start charging.

Micro USB Cable  Adapter  Power Outlet

Micro USB Cable  Adapter  Power Outlet

There is a Micro USB 5V power input port on both sides of the charger, which supports one adapter or two adapters charging simultaneously (faster).
2. The simultaneous charging with two adapters may fail when the power is under charged (like when the current of adapter is below 1000mA); Adapter with higher current capacity is recommended;
3. The USB Port along side the stabilizer does not support charging to batteries.

Battery Installation

Unscrew the battery compartment and insert the three IMR 18650 batteries in the right direction (positive/negative end), then tighten the battery compartment.

Micro USB Cable  Adapter  Power Outlet

Please use and charge batteries provided or approved by ZHIYUN only, in case of accidents.

Tripod

Get the tripod ready and tighten it to the 1/4"-3/8" threaded hole at the bottom of the stabilizer, then unfold the tripod on a flat surface.

1. Please use qualified standard 5V/≥2000mA adapter for battery charging; Charging time depends on the maximum input current of the adapter.
2. The stabilizer comes standard with three high-discharge-rate dedicated batteries. Please use and charge batteries provided or approved by ZHIYUN only.
3. Please make sure all three batteries are fully charged. Either under charged battery can lead to the failure of the stabilizer.
Installing Camera

1. Loosen the mounting plate thumb screw, press and hold the safety lock while sliding out the quick release plate (to the opposite direction of the arrow mark on it).

2. Install the lens to quick release plate, then tighten the 1/4” screw at its bottom (as shown above).

3. Slide in the quick release plate installed with the camera following the direction of the arrow mark on camera mounting plate, then tighten the thumb screw to finish the installation of the quick release plate.

4. Loosen the screw on lens support and adjust the support to keep the lens firm and stabilized.

Note: Do not power on stabilizer before finishing the camera installation. Please hold the camera stable during the whole process in case of any malfunctioned rotation.

Connecting Camera Control Cable

In the case of Canon camera, connect the control cable to the port on the tilt motor axis with the Micro USB end, and then the other end to the left-side port on the camera.

Please make sure the stabilizer is powered off or in standby mode when connecting the camera control cable in case of malfunctioned rotation.

<table>
<thead>
<tr>
<th>Camera brand</th>
<th>Camera model</th>
<th>Canon 5D2/5D3</th>
<th>5D4</th>
<th>Sony camera with MULTI interface</th>
<th>Panasonic GH3/GH4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera control cable interface</td>
<td>Micro USB to Mini USB</td>
<td>Micro USB to Micro USB</td>
<td>Micro USB to MULTI USB</td>
<td>Micro USB to CTIA</td>
<td></td>
</tr>
<tr>
<td>Photo</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Video</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Real-time preview</td>
<td>√</td>
<td>√</td>
<td>×</td>
<td>×</td>
<td>×</td>
</tr>
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<td>AV</td>
<td>√</td>
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<td>×</td>
<td>×</td>
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<td>×</td>
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<td>√</td>
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<td>×</td>
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<td>×</td>
<td>×</td>
<td>×</td>
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<td>×</td>
<td>×</td>
<td>√</td>
<td>×</td>
<td>×</td>
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<tr>
<td>Focus</td>
<td>√</td>
<td>√</td>
<td>×</td>
<td>×</td>
<td>×</td>
</tr>
<tr>
<td>Camera charging</td>
<td>×</td>
<td>×</td>
<td>×</td>
<td>√</td>
<td>×</td>
</tr>
<tr>
<td>Standard camera control cable</td>
<td>√</td>
<td>×</td>
<td>×</td>
<td>√</td>
<td>×</td>
</tr>
</tbody>
</table>
Balance Adjustment

**Level Adjustment on Tilt Axis**

Loosen the thumb screw on the quick release plate so that it can slide forward or backward.

Hold the horizontal arm on the tilt axis with one hand and adjust the position of the camera to find a level balance where the camera can stay still and almost level with its lens facing front, complete this step by tightening up the camera mounting thumb screw.

**Balance Adjustment on Tilt Axis**

Loosen the thumb screw (rotate about 3 times); Adjust the tilt axis until the camera can stay still with the lens facing up (i.e. the camera stays still and vertical to the ground), complete this step by tightening up thumb screw.

**Balance Adjustment on Roll Axis**

Loosen the thumb screw (rotate about 3 times); Adjust the tilt axis until the camera can stay still with the lens facing up (i.e. the camera stays still and vertical to the ground), complete this step by tightening up thumb screw.

⚠️ Please make sure the camera is properly mounted and balanced, otherwise the stabilizer may fail to start or operate normally.

⚠️ The balance status of the stabilizer will greatly affect the run time.
### Balance Adjustment on Pan Axis

Loosen the thumb screw on the pan axis. Adjust the pan axis until the camera can stay still while keeping the vertical arm level when turned to the right/left side. Complete balance adjustment by tightening up all thumb screws.

If the camera installed is too light that it’s impossible to achieve balanced adjustment, please purchase the dedicated counterweight (100g) provided by ZHIYUN and install it under the camera mounting plate to finish balance installation.

---

### Control Panel Description

**1. OLED Display**
- Stabilizer status and camera parameters display (see more on page 18).

**2. Joystick**
- Four-way direction control of the camera/lens.

**3. ON/OFF&Video**
- Long press for 3 seconds to power on/off.
- Single press to start/end video recording.

**4. Real-time Preview**
- Single press the button to enter the real-time preview mode.

**5. Left**
- In main screen, single press to return to previous option.
- In menu screen, single press to return to previous screen.

**6. Right**
- In main screen, single press to move to next option.
- In menu screen, single press to confirm selection.

**7. Shutter Release**
- Halfway press the button to activate auto focus.
- Full press the button to take single shots.

**8. Dial**
- In main screen, rotate the dial to adjust camera parameters.
- In menu screen, rotate the dial to switch between options.
How to Use

Menu
Single press to enter or exit the menu.

Follow Focus Controller*
Rotate the controller to adjust the focal length in real time and realize follow focus control.

Mode
• Press for 1 second to enter or exit standby mode.
• Single press to switch between pan-following and lock mode.
• Quick double press to enter the following mode.
• Quick triple press to enter the selfie mode (180° rotation on pan axis)

*“*” marked functions are only available for Canon cameras properly connected to the stabilizer. See more at Zhiyun Camera Control Cable Function Table on page 12.

ZHIYUN - Panasonic Camera Control Function Description
Please refer to the instruction on Camera Control Cable Configuration on page 19 to choose the right option for your camera.
1. Shutter release: Halfway press “Shutter Release” button to realize auto focus and take single shots.
2. Video recording: Single press “ON/OFF&Video” button to start or end video recording.

ZHIYUN - Sony Camera Control Function Description
Please refer to the instruction on Camera Control Cable Configuration on page 19 to choose the right option for your camera.
1. Shutter release: Fully press “Shutter Release” button to realize auto focus and take single shots.
2. Video recording: Single press “ON/OFF&Video” button to start or end video recording.
3. Zooming: Press “Left” button or “Right” button to control the focal length.

Note: The non-motor-driven lens does not support optical zoom (recommended motor-driven lens: E PZ 18-105mm F4 OSS, E PZ 16-50mm F3.6-5.6 OSS).

1. For Sony and Panasonic mirrorless camera with EVF, Real-time Preview is not needed.
2. When mounting a Sony camera to the stabilizer, make sure to power on the stabilizer before the camera, otherwise the stabilizer may fail to control the camera.
3. When powering on the stabilizer, please hold the camera with one hand in case of malfunctioned rotation.
4. When powering on, avoid shaking of the stabilizer which may lead to start-up failure.
Motor Force Adjustment

The motor force of the stabilizer needs to be adjusted (3 levels) to adapt the stabilizer to cameras and lens of different weight for ideal use.

1. Single press Menu and rotate the dial to "motor", then press right to enter the "motor" setting.
2. Rotate the dial to choose the appropriate motor force (3 levels), press right to confirm the option, then restart the stabilizer to finish.

<table>
<thead>
<tr>
<th>Motor Force</th>
<th>Weight Capacity</th>
<th>Compatible Camera &amp; Lens Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>Light</td>
<td>Sony A7S Camera + SEL35F28Z Lens</td>
</tr>
<tr>
<td>Medium (default)</td>
<td>Medium</td>
<td>Canon 5D Camera + EF 50mm f/1.8 II Lens</td>
</tr>
<tr>
<td>High</td>
<td>Heavy</td>
<td>Canon 5D Camera + EF 24-70mm f/2.8 L II USM Lens</td>
</tr>
</tbody>
</table>

⚠️ Either the motor force is set too high or too low (unmatched with weight capacity) can lead to camera shake and affect normal use of the stabilizer.

Camera Control Cable Configuration

Please choose the corresponding option to configure your camera control cable.

1. Single press Menu and rotate the dial to “camera”, then press right to enter the “camera” setting.
2. Rotate the dial to choose your camera brand, press right to confirm the option and restart the stabilizer to finish.

⚠️ If there is no option to match your camera brand or there is no need to connect your camera, choose “Close”.

1. You need to restart the stabilizer to finish adjustment and configuration of motor force and camera control cable.
2. After re-setting the parameters, the stabilizer will enter standby mode, please long press mode button to activate the camera.

Control Mode Description

The stabilizer enters Pan Following Mode (PF) by default each time when powered on. Switch into Locking Mode (L) by single pressing on Joystick. Double press Joystick to enter Following mode (F). Single press Joystick under Following Mode will return to the previous mode.

Mode Switch

- Pan Following Mode (PF): The camera pans left/right following the movement of the stabilizer while the tilt and roll axes are locked. Push the joystick up/down allows manual control of the tilt axis.
- Locking Mode (L): This mode locks movement of all three axes to keep the camera fixed on a shooting direction. Push the joystick up/down and left/right allows manual control of the tilt axis and pan axis.
- Following Mode (F): The camera pans and tilts following the movement of the stabilizer. Push the joystick left/right allows manual control of the roll axis.
Please ensure balanced installation of the camera under top down mode and do not rotate or shake the handle while initiating the bottom up mode (as seen in graph).

**Note:** The size of the camera and its balance condition when mounted may affect the successful access to Bottom Up mode. For certain camera models, balance should be adjusted after access to Bottom Up mode.

---

**Bottom up Mode Operation**

**Top Down Mode**

**Bottom Up Mode**

---

**DC 8.0 V Power Outlet Usage**

The DC 8.0 V power outlet on the side of the stabilizer can be used for charging the Canon 5D camera through a DC connector DR-E6 (purchase separately).

**Charging SD3/SD4 camera:**

**Powering on:**

1. First, connect the power input end of the connector to the DC 8.0V power outlet, then connect the other end of the connector to the camera.
2. Install the camera to the stabilizer and power on the stabilizer, then start up the camera.

**Powering off:**

First, power off the camera, then unplug the connector from the stabilizer.

**Charging 5D2 camera:**

**Powering on:**

1. Start up the stabilizer, long press the mode button to enter standby mode.
2. Connect the power input end of the connector to the DC 8.0V power outlet, then connect the other end of the connector to the camera.
3. Install the camera to the stabilizer and adjust gimbal balance.
4. Power on the camera and long press mode button to activate the stabilizer.

**Powering off:**

First, power off the camera, then unplug the connector from the stabilizer.

---

**1. Original Canon DR-E6 DC power connector is recommended. Please follow the procedure herein in case of accidents.**

**2. Please power on/off the camera in accordance with the procedure, otherwise the camera may fail to start.**
**APP Operations**

**APP Download and Installation**

Download the APP from ZHIYUN’s official website www.ZHIYUN-TECH.com, or by directly scanning the QR code on the left (Android 5.0 above or iOS9.0 above required) to download. iOS or Android users can download the APP by searching “ZY Play” in APP Store.

The ZHIYUN APP is subject to regular update, try out now to discover more functions.

**Connecting the Stabilizer to Smartphone**

1. Power on the stabilizer.
2. Tap ZHIYUN’s APP icon to open.
3. Tap the signal icon on the top to activate Bluetooth and search for nearby signals, choose your stabilizer to connect.

**Main Features of the APP**

- **Basic Setting Screen:** Motor force setting and camera brand selection.
- **Calibration Screen:** Calibration is required when deviations are found in the 3 axes and the leveling of the camera. Tap “Start Calibration”, and complete the 6-side calibration procedure following onscreen illustrations.
- **Control Screen:** Stabilizer control panel via Bluetooth.
- **Gimbal Setting Screen:** Allows adjustment of various parameter settings of the stabilizer (Refer to APP instructions for specific operations.)
When do you need to calibrate the stabilizer?
Please calibrate the stabilizer when necessary to ensure normal use.

### When

<table>
<thead>
<tr>
<th>When</th>
<th>How</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Slight deviation is found in the tilt angle of the camera in level position after startup.</td>
<td></td>
</tr>
<tr>
<td>b) Slight deviation is found in the roll angle of the camera in level position after startup.</td>
<td></td>
</tr>
<tr>
<td>c) Frequent small angle correction is found when the camera is in level position while the stabilizer stays still.</td>
<td></td>
</tr>
<tr>
<td>Initialize the stabilizer</td>
<td></td>
</tr>
<tr>
<td>a) Slight deviation is still found in level position after the initialization of the stabilizer.</td>
<td></td>
</tr>
<tr>
<td>b) Stabilizer unused for a long time.</td>
<td></td>
</tr>
<tr>
<td>c) Too large temperature difference between operation environments.</td>
<td></td>
</tr>
<tr>
<td>Conduct six-side calibration</td>
<td></td>
</tr>
<tr>
<td>Slight deviation is still found in the tilt or roll angle of the camera in level position after the initialization and six-side calibration of the stabilizer.</td>
<td></td>
</tr>
<tr>
<td>Fine tune motor force</td>
<td></td>
</tr>
</tbody>
</table>

### Initialization Method

1. Correctly install the batteries.
2. Hold the camera mounting plate with one hand, long press the power button to start up the stabilizer; Long press the Mode button to enter the standby mode while holding the camera mounting plate through the whole process in case of start-up failure.

If the angle deviation still persists after the initialization, please try again following the procedure.

### Six-side Calibration

1. Power on the stabilizer and enter the standby mode, press menu, rotate the dial to “calibration” option, press Right to enter the option.
2. As seen below, conduct the six-side calibration following the 6 steps shown in the graphs, finish by pressing any button to exit the menu.

### Calibration and Firmware Upgrade

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zhiyun-tech.com
zhiyun-tech.com
5.开机与启动

STEP 4

Firmware Upgrade

Motor Fine-tuning

Fine tune the motor through stabilizer:

Power on the stabilizer and enter standby mode, then rotate the dial and press right to enter the “angle” option; Adjust the value of the tilt and roll axis angle to your actual needs.

Fine tune the motor through APP:

Please refer to “APP Operations” for more information; Connect the stabilizer to ZHIYUN’s APP - ZY Play - via Bluetooth, then enter “Gimbal Setting” screen and adjust the value of the tilt and roll axis angle to your actual needs.

STEP 5

Fine tune the motor through stabilizer:

Power on the stabilizer and enter standby mode, then rotate the dial and press right to enter the “angle” option; Adjust the value of the tilt and roll axis angle to your actual needs.

Fine tune the motor through APP:

Please refer to “APP Operations” for more information; Connect the stabilizer to ZHIYUN’s APP - ZY Play - via Bluetooth, then enter “Gimbal Setting” screen and adjust the value of the tilt and roll axis angle to your actual needs.

STEP 6

Connect the stabilizer to your computer via Micro USB cable to get ready for the firmware upgrade and calibration.

1. Visit ZHIYUN’s official website: www.zhiyun-tech.com Click “DOWNLOAD” and find the Firmware Upgrade Tutorial package, then download the driver, calibration tool and latest firmware corresponding to your stabilizer. (USB driver installation is not needed for Mac and WIN 10 system).

2. Connect the stabilizer to your computer via Micro USB cable, power on the stabilizer and finish the installation of the driver.

3. Power on the stabilizer and long press mode button to enter standby mode.

4. Enter the downloaded “Zhiyun Gimbal Tools” and upgrade firmware following the instructions indicated in the Firmware Upgrade Tutorial.

Six-side calibration through APP

Please refer to “APP Operations” for more information; Connect the stabilizer to ZHIYUN’s APP - ZY Play - via Bluetooth, enter “calibration” and finish the six-side calibration following the APP instruction.

Six-side calibration is to make all six sides of the camera mounting plate vertical to the level surface.
Crane-EH002 CRANE 2 Extended Handle (purchase separately)

Installation method:
1. Insert in the two handles from the two sides of the horizontal rod.
2. Tighten the screws on the handles.
3. Loosen the screws on the fixing clamp to install the stabilizer, then tighten the screw to fix it.

Clip the fixing clamp onto the stabilizer at the position indicated.
Mounting Method

1. Loosen the thumb screw on the back of the remote controller to let loose of the rubber case (as marked red in the Figure).
2. Install the remote controller to the extension rod or dual handle for convenient operations (as shown in the Figure above). Fasten up by tightening the thumb screw on the back.

The remote controller turns off automatically when left idle for 2 minutes.

Main body of the remote controller can be easily separated from the mounting buckle for independent use. The mounting buckle is for fix mounting only and will not affect performance of the remote control after separation.

Usage of Main Accessories

ZW-B02 Remote Controller

Usage of Main Accessories

Basic Specifications:
- Charging voltage: 5V
- Charging current: 100mA
- Theoretical work time: ≥30 hr.
- Built-in Polymer lithium battery capacity: 150mAh
- Emission and received current: 11.9mA
- Operating current: 4.2mA
- Effective control distance: 10M (without blockage)

Power Level Indicator
- 90%-100%: quick flash for 4 times each second
- 75%-90%: quick flash for 3 times each second
- 55%-75%: quick flash for 2 times each second
- 30%-55%: quick flash for 1 time each second
- 0%-30%: quick flashing

Bluetooth Indicator
- No connection: Continuous flashing
- Connected: Shines solid light

Charging Indicator
- Charging: RED light
- Charging complete: GREEN light

ZW-B02 Remote Controller

Charging Indicator

MODE Button

Power/Shutter (Dual-function button)

Toggle

Joystick

Power Level Indicator

Bluetooth Indicator

Usage of Main Accessories

Power/Shutter (Dual-function button):
1. Press for 1-2 seconds to power on/off (enters Master Mode by default)
2. Fully press for 1-2 seconds to power off (the indicator light turned off accordingly)
3. When the stabilizer is connected to camera:
   - Halfway press the button, under photo mode, to focus; Full press to take single shots; Quick double press (full press) to switch between video and photo shooting.

Combined Button Control
- Power Button + toggle: Push the toggle in W direction simultaneously when powering up to enter Slave Mode. This allows firmware upgrade of the remote controller through mobile APP (requires Bluetooth pairing with the smartphone using Zhiyun Assistant).
- Power Button + MODE Button: Press the MODE Button simultaneously when powering up to operate quick pairing with the nearest stabilizer.
- MODE Button: Switches between gimbal control modes (works like the MODE button on the stabilizer).
- Joystick: Controls camera movement (functions the same as the Joystick on the stabilizer.)
- Toggle: Allows focusing control of the camera.

ZW-B02 Remote Controller
Warranty Period

This warranty period is 12 months from the date of delivery. It covers any product found to be defective in material or workmanship during normal consumer usage. Products subjected to unauthorized repair, misuse, collision, neglect, mishandling, soaking, accident, unauthorized alteration, improper use, or whose labels or security tags have been torn off or altered, are not covered by this warranty.

Warranty Terms

1. Customers are entitled to replacement or free repair service in case of quality defect(s) found in the product within 15 days upon receipt of the product.
2. Customers are entitled to free repair service from ZHIYUN for any product proven defective in material or workmanship that results in product failure during normal consumer usage and conditions within the valid warranty period, which is 12 months counting from the date of delivery.

Warranty Claim Procedure

1. If failure or any problem occurs to your product after purchase, please contact a local agent for assistance, or you can always contact ZHIYUN’s customer service through email at SERVICE@ZHIYUN-TECH.COM or website at WWW.ZHIYUN-TECH.COM.
2. Your local agent or ZHIYUN’s customer service will guide you through the whole service procedure regarding any product issue or problem you have encountered. ZHIYUN reserves the right to reexamine damaged or returned products.

Product Specifications

Product model: CRA02

<table>
<thead>
<tr>
<th></th>
<th>Min.</th>
<th>Standard</th>
<th>Max.</th>
<th>Remarks</th>
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<td>Input Vol.</td>
<td>9.8V</td>
<td>11.1V</td>
<td>12.6V</td>
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<tr>
<td>Operation Current</td>
<td>110mA</td>
<td>6000mA</td>
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<tr>
<td>Operation Temperature</td>
<td>-10°C</td>
<td>25°C</td>
<td>45°C</td>
<td>Tested under static operation after proper balancing</td>
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<tr>
<td>Operation Time</td>
<td>12h</td>
<td>18h</td>
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<td>Charging Time</td>
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<td>Charging current 2400mA</td>
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<td>Weight</td>
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<td>Excluding batteries</td>
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<tr>
<td>Tilt Angle Range</td>
<td>-135°</td>
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<td>+185°</td>
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<tr>
<td>Roll Angle Range</td>
<td>360°</td>
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<td>Unlimited rotation</td>
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<tr>
<td>Pan Angle Range</td>
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<td>Unlimited rotation</td>
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<td>Following Deviation in Static State</td>
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<td>±0.03°</td>
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<tr>
<td>Following Deviation in Motion State</td>
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<tr>
<td>Payload</td>
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<td>3200g</td>
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<td>Compatible Camera Sizes</td>
<td>The max. horizontal length from the point of camera gravity to the roll axis is 90mm, from the 1/4&quot; threaded hole to tilt axis 90mm, and from gravity point to quick release plate 65mm.</td>
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<tr>
<td>Product Dimension</td>
<td>210<em>118</em>450mm</td>
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## Warranty Terms

### Customer Information
- **Customer Name:**
- **Contact No.:**
- **Address:**

### Sales Information
- **Sales Date:**
- **Prod. Serial No.:**
- **Dealer:**
- **Contact No.:**

### #1 Maintenance Record
- **Service Date:**
- **Signature of Repairman:**
- **Cause of Problem:**
- **Service Result:**
  - ✔ Solved
  - ❌ Unsolved
  - ❌ Refunded/Replaced

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### Contact Card
- **Website:**
- **Weibo:**
- **Vimeo:**
- **Google+**
- **Facebook:**
- **Wechat:**
- **Youku:**
- **Youtube:**

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Certificate of Quality

This product is confirmed to meet quality standards and permitted for sale after strict inspection.

QC Inspector: _______________________

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