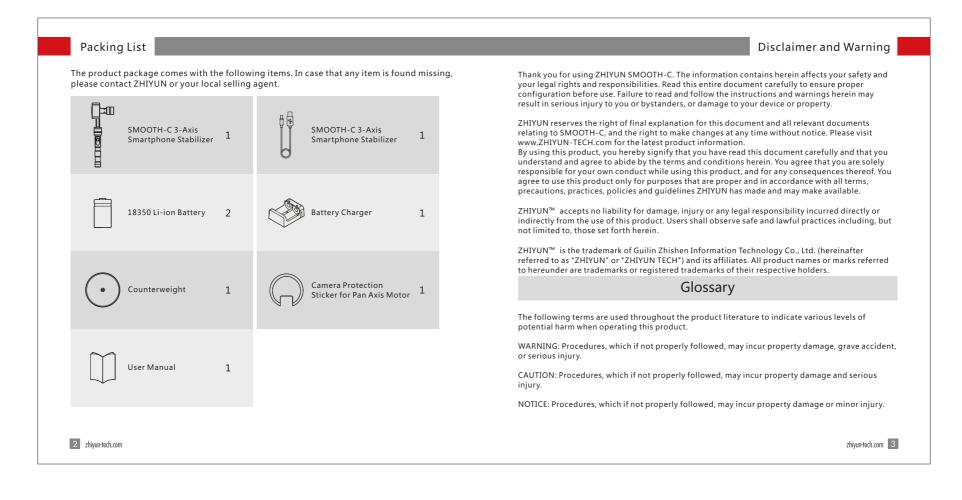






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# Disclaimer and Warning

# 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.

# Safe Operation Guidelines

# **CAUTION:**

SMOOTH-C is a high-precision control device. Damage may be caused to SMOOTH-C if it is dropped or subject to external force, and this may result in malfunction.

Make sure the rotation of the gimbal axes is not blocked by external force when SMOOTH-C

SMOOTH-C is not waterproof. Prevent contacts of any kind of liquid or cleaner with SMOOTH-C. It is recommended to use dry cloth for cleaning.

Protect SMOOTH-C from dust and sand during use.

# ■ NOTICE:

Keep the handle stable when SMOOTH-C is powered on, as shaking may cause failure to start up.

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

Disclaimer

This Battery Safety Guidelines and all relevant documents are subject to change at the sole discretion of ZHIYUN TECH. ZHIYUN TECH reserves the right to make changes at any time without notice. For updated product information, please visit ZHIYUN's official website.

#### Glossary

- 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.

## WARNINGS

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.

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Battery Safety Guidelines

#### Battery Use

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 extinct 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  $160^{\circ}F$  /  $71^{\circ}C$ ). If your batteries are abnormal, contact ZHIYUN or a ZHIYUN authorized dealer for further series are smaller or the state of the

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.

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# Battery Safety Guidelines

#### **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.

# Transportation Notice

1.Discharge the battery power to 5% or lower before carrying the battery on an airline flight. Only discharge the battery in a fireproof location, ideally in a dry and open area. 2.Do not store or transport batteries together with metal objects such as eyeglasses, watch, and jewelries, etc.

3.Do not transport damaged batteries. When transporting, be sure to discharge the battery to less than 50%.

#### **Battery Disposal**

Dispose of the battery in specific recycling boxes only after a complete discharge. Do not put away the battery in regular trash containers. Strictly follow your local regulations regarding the disposal and recycling of batteries.

# **Battery Use**

Make sure the batteries are fully charged before each time of use.

**Battery Charging**The battery will stop charging automatically when it is full. Disconnect the batteries from the charger when fully charged.

**Battery Storage**1.Discharge the battery to 40%-65% if it will NOT be used for over 10 days. This can greatly extend the battery life.

2. The battery enters hibernation mode when voltage gets too low. Charge the battery will bring it out of hibernation.

3. Remove batteries from the stabilizer when not in use and store them in a specialized container.

# **Battery Maintenance**

1. Never over-discharge, as this may lead to battery cell damage.

2. Battery performance may be affected if not used for a long time.

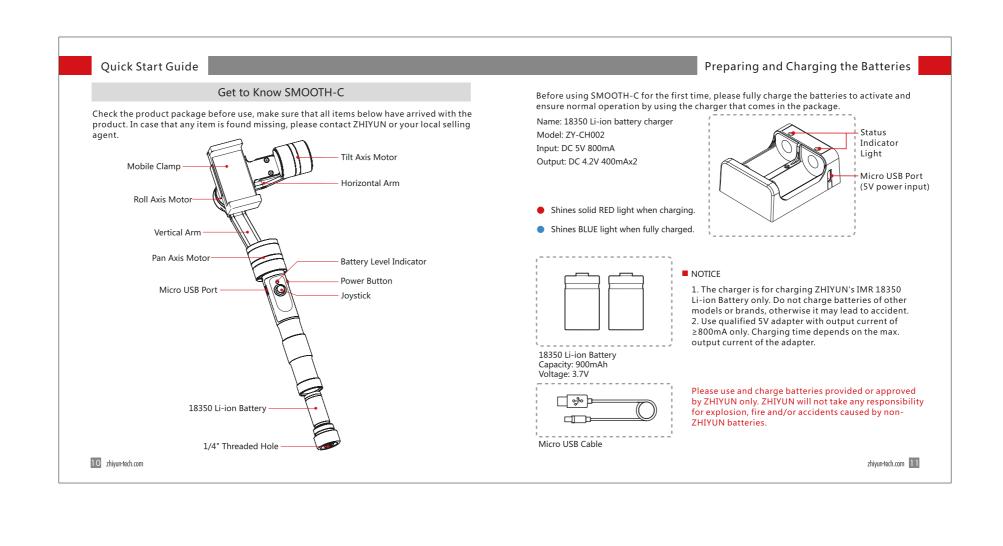
3. Charge and discharge the battery once every 3 months to keep it active.

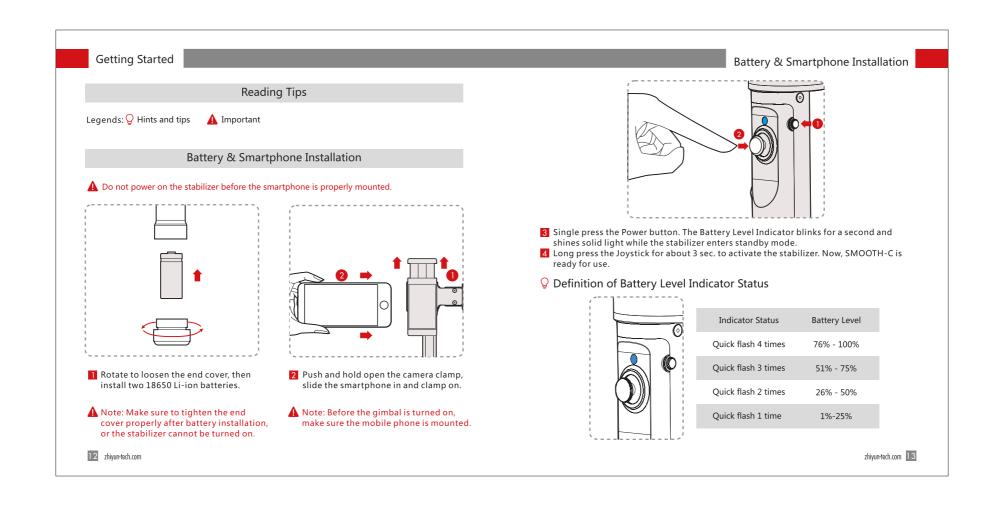
If the battery cannot be fully discharged, do not leave it in the recycling box, but contact a professional battery disposal/recycling agent for further assistance.

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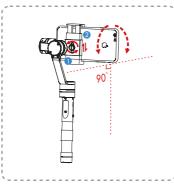
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Battery Safety Guidelines





# **Gravity Center Adjustment**

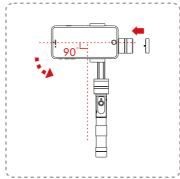


If the smartphone tilts forward/backward on tilt (X) axis, loosen Thumb Screw 1 at the back of the mobile clamp. Adjust the active plate up/down until the smartphone stays still and vertical on X axis.

still and vertical on X axis.

Turn the smartphone at any angle to check if the smartphone will tilt, if the smartphone can stay still, then the adjustment is successful.

In the event when an iPhone 6 Plus is mounted, adjust the active plate to the bottom of the clamp.



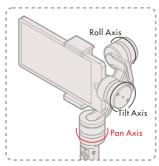
In the event when the smartphone is too heavy and keeps falling on the Roll (Y) Axis, then a counterweight shall be added on to the Tilt Axis Motor to compensate, and keep balance of the smartphone to ensure normal operation of the stabilizer.

Counterweight is required for any smartphone with sizes same as or bigger than iPhone 6 Plus, otherwise the stabilizer cannot function normally.

A Proper adjustment of gravity center ensures better power saving during operation.

The stabilizer may still function well when the gravity center is not properly configured, however, it may lead to more power consumption on the motors, and greatly affect the torque output.



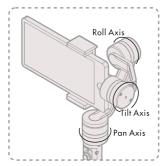


# ■ Pan Following Mode(Default)

The smartphone 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.

# Introducing Gimbal Control Modes



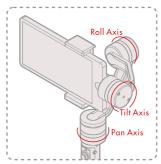
# Locking Mode:

This mode locks movement of all three axes to keep the smartphone still and stable.
Push the joystick up/down and left/right allows manual control of the tilt axis and pan axis.

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# Introducing Gimbal Control Modes

# Introducing Connection Ports and Various Operations



# Pan and Tilt Following Mode:

The smartphone pans and tilts following the movement of the stabilizer. Push the joystick left/right allows manual control of the roll axis.

# Mode Switch

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

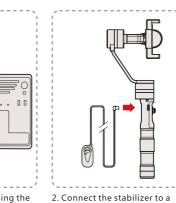
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© See ZHIYUN's product training videos on www.ZHIYUN-TECH.com for more operation tips.



# Micro USB Port



1. Connect the stabilizer to your computer using the Micro USB cable for firmware upgrade and on-line

▲ NOTICE: This port cannot be used for charging.

# Wired Remote Controller



Name: Wired Remote Controller Compatible device: Smartphones with size of or under 6.0"

specialized wired remote

■ NOTICE: The Wired Remote Commander shall be purchased separately.

## ■ NOTICE: The Live Webcast Kit shall be purchased separately.

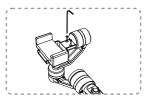
## Live Webcast Kit

## **Packing List**



## How to Install

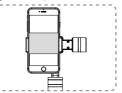
1.Unscrew the screws to dismount the original mobile mounting plate from the stabilizer with the 1.5mm Hex Socket Screwdriver (as shown in the figure).



- 2. Install the Special Mobile Clamp & Mounting Plate to the stabilizer using the original screws or the screws that come with the Live Webcast
- Kit.
  3. Operate 6-side calibration after installation (Visit www.ZHIYUN-Tech.com for detailed tutorial on calibration method.).

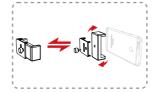
## Usage

1. When shooting in vertical mode, clamp on the smartphone on middle position (as shown in the figure) to keep balance.

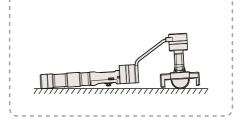


2. If large deviation occurs to the Roll Axis, add one or more pieces of counterweight as appropriate to the axis motor.

3. By changing the mounting direction of the mobile clamp, the smartphone can be mounted either vertically or horizontally. Tighten up the Thumb Screw to complete



▲ Make sure the mobile clamp is installed with the extendable part facing out/up.



Demonstration Figure

- Initialize the stabilizer under the following circumstances:

  1. Slight deviation is found in the tilt angle of the camera in level position after startup.
- 2. Slight deviation is found in the roll angle of the camera in level position after startup.
- Frequent small angle correction is found when the camera is in level position while the stabilizer stays still.
- Initialization Procedure:
- 1. Install the batteries and smartphone properly.
- 2. Put the stabilizer still on a table surface in random pose.

  3. Power on the stabilizer, wait for about 15 sec., and the stabilizer will automatically

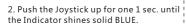
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# ■ Calibrate the stabilizer when any of the following circumstances occurs:

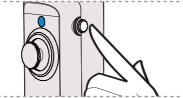
- 1. Deviation is found in the balancing of the smartphone even after initialization.
- 2. The stabilizer has not been used for a long time.
- 3. The stabilizer is exposed to severe temperature change (Calibration is required, as excessive temperature differences in operation environments may affect various parameter indexes of the inner part of the built-in gyroscope).

## **Calibration Procedure**

1. Power up the stabilizer. The Battery Level Indicator lights up in solid BLUE and then starts flashing as the stabilizer enters standby mode.



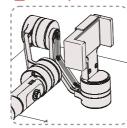




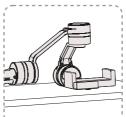


------7. Lay the stabilizer still on a surface with the Mobile Clamp facing up, until the Indicator starts flashing 5 times each second.

#### ▲ NOTICE: Pay attention to the position and orientation of the mobile clamp when doing calibration.

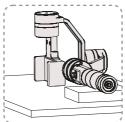


4. Lay the stabilizer still on a surface with the Tilt Axis Motor facing down, until the Indicator starts flashing 2 times each

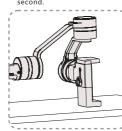


second.

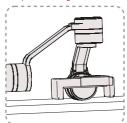
surface with the Mobile Clamp facing forward, until the Indicator starts flashing 6 times each second.



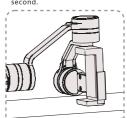
Lay the stabilizer still on a surface with the Tilt Axis Motor facing up, until the Indicator starts flashing 3 times each second.



8. Lay the stabilizer still on a

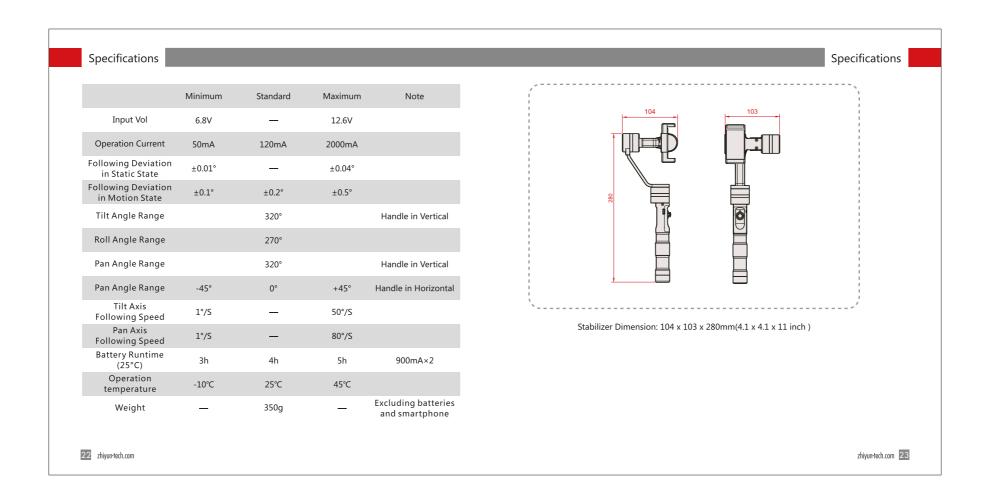


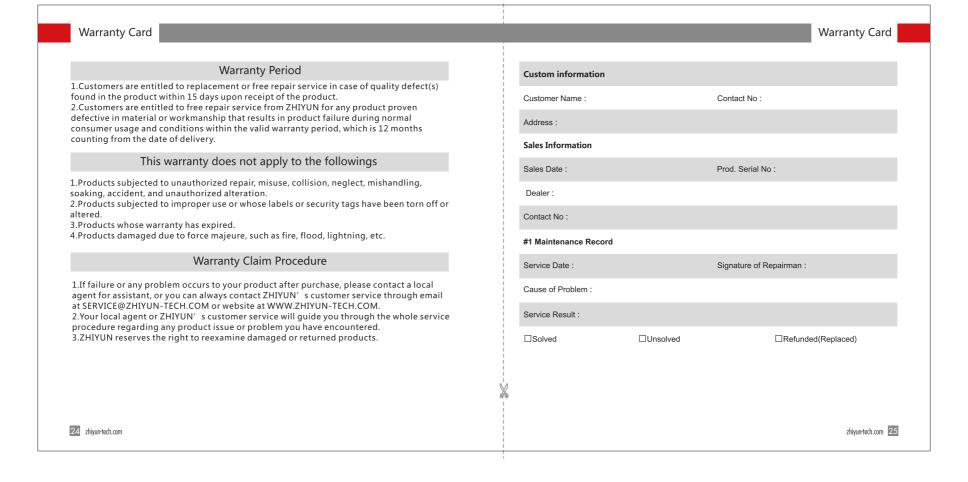
6. Lay the stabilizer still on a surface with the Mobile Clamp facing down, until the Indicator starts flashing 4 times each second.



9. Lay the stabilizer still on a surface with the Mobile Clamp facing backward, until the Indicator shines solid BLUE. Calibration complete!

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# Contact Card











Wechat





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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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