# 3-Axis Handheld Gimbal Smartphone Stabilizer

# X3-Pro

## Introduction

X3-Pro is a handheld gyro-stabilized 3-axis gimbal system. With its assistance, everyone can shoot steady and professional-level videos with a smartphone; it is widely used in various circumstances such as sports games, parties, outdoor events, interviews, microfilms, etc. With a built-in bluetooth module, you can switch frontrear lenses, zoom in/out, take photo/video without touching the smartphone screen. Furthermore, one-key 360 degrees panorama shooting and time-lapse function are also available.

This product applies to most 3.5-6 inches mainstream smartphones on the market.

## Caution

- Charge, use and store the stabilizer at a temperature between 5°C and 45°C.
- Always place the gimbal as its initial mechanical position in the package box when not in use.
- Always remove your smartphone on the gimbal before turning power on, and remove the smartphone after turning power off. Ensure the power is off when the gimbal is empty.
- Always turn off power when not in use.
- Please do not outrange each axis of the stabilizer.

## Warning

- This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction. Handle concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- This product must be used only for purposes that are proper and in accordance with local regulations, terms and any applicable policies and guidelines.
- The manufacturer accepts no liability for damages, injuries or any legal responsibilities incurred directly or indirectly from the use of this product.
- The manufacturer does not provide any service for any product comes from unauthorized channels.

## General Description

1. Smartphone holder
2. Tilt/Pitch Motor
3. Roll Motor
4. Pan/Yaw Motor
5. Operation Panel
6. Handle
7. Power Switch
8. Micro USB Port (for configuration and firmware update only)
9. Quick Detach Sliding Block
10. CG (Center of Gravity) Adjusting Screw
11. System Status LED
12. W Button (zoom out)
13. T Button (zoom in)
14. 1/4 Screw Hole (external holder is optional)
15. Tripod Interface (900mAh*3)
16. Battery Cap
17. Counterweight
18. Charger
19. USB Cable

Warning: USB port on the handle is prohibited for battery charging

## What's inside the box

| Name | Qty |
|---|---|
| 3-Axis Handheld Stabilizer | 1 |
| Charger | 1 |
| USB Cable | 1 |
| 18350 Battery | 3 |
| Counterweight | 1 |
| Manual | 1 |

## Dimensions

## Charging

1. Charge batteries before using the gimbal.
2. Connect a power adapter and charger with the USB cable, put batteries in the charger respecting the polarity, then plug in.
3. The LED indicator is red when charging, it turns green when the battery is fully charged.
4. It takes approximately 120 minutes to fully charge the batteries.

Charger: Input: DC5V 2A; Output: DC4.2V 500mA*3

Battery: 18350 rechargeable lithium battery 3.7V 850mAh

Power Adapter (recommended): Input: AC100-240V; Output: DC5V 1A

## Battery Low Warning

When the Battery Status LED is green, batteries have enough power, the gimbal can work normally.

When the battery is low, the Battery Status LED turns red, please stop using the stabilizer.

## Calibration

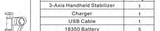
This product may become slightly imbalanced due to the environment or temperature changes. The level is not perfect and jitters/drifts, most probably you need to update the calibration of the gyroscope.

To do that, put gimbal on a rigid surface (see reference pic 1 and 2 below) and keep it still. Power gimbal ON - calibration starts automatically. The Status LED starts blinking, hands off the gimbal immediately. The Status LED stops blinking and stays on for about 3-4 seconds, calibration is finished when Status LED certainly stays on.

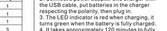
If calibration failed, the gimbal starts working. You can aginer hold the gimbal and start using or turn it off. Check at 3 axes, start over if it's not well balanced.

Important:

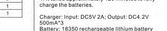
1. The product must remain still during calibration.
2. If the products moves during calibration, please turn off power and start over.
3. If the products remains totally still when turning on power, it will start calibration automatically, and it will skip calibration if it moves during the whole procedure.




## Rotation range of axes




## Operation Panel Instruction




## Gimbal Functions

There are 2 positive (from-follow and follow), 8 functions. To set the operation mode, press the Bluetooth button 1 time, then shortly press to select the appropriate mode. To select mode 1, press the function button 1 time. To select mode 5, press the function button 5 times.

| Mode | Operation | Operation Mode |
|---|---|---|
| 1 | Short press | Follow mode (default setting) |
| 2 | Short press 2 times | Pan follow mode |
| 3 | Short press 3 times | Pan follow mode (pitch follow) |
| 4 | Short press 4 times | Pan follow mode (pitch follow) |
| 5 | Short press 5 times | Pan follow mode (pitch follow) |
| 6 | Long press | Bluetooth pairing |
| 7 | Short press 6 times | Bluetooth on/off |
| 8 | Short press 7 times | Shutter on/off |

**-Yaw Follow Mode:** Follow only for Yaw axis, lock for Pitch and Roll axis. Pan and rotates horizontally that is very useful for panorama handle. You can move joystick left/right to pan and up/down to tilt. Press and hold function button to temporarily lock yaw axis.

**-Pan Follow Mode:** Lock for Roll axis, follow for Yaw and Pitch axes, yaw and pitch axes rotate smoothly together with movement of gimbal handle. You can move joystick left/right to pan and up/down to tilt. Press and hold function button to temporarily lock yaw axis.

**-Follow Mode:** Lock for Pitch and Roll axis, follow for Yaw and Pitch axes, yaw and pitch axes rotate smoothly together with movement of gimbal handle. You can move joystick left/right to pan and up/down to tilt. Press and hold function button to temporarily lock yaw axis.

**-Portrait Mode:** Roll axis rotates 90 degrees clockwise. When in portrait mode, you can also switch follow-by-clicking function button. Press and hold function button to switch back to normal mode. Portrait mode (Note: please adjust CG properly when in portrait mode).

**-Panorama Mode:** Yaw axis rotates 360 degrees (12 seconds), to do this, your hand must vertically.

**-Time-lapse Function:** Firmly fix the gimbal on a tripod or other way. Move the camera to the first position and press shutter button to start the time-lapse. Then press button 5 times in series to activate the "time-lapse" function. You have 10 seconds to move the camera to the other position and set the initial framing. Do not forget to start recording in your smartphone. Then, the gimbal slowly rotates from the initial position to the second position, the rotation speed is set to currently selected profile: 10min, 15min for Profile1, Profile2 respectively.

**-Bet position manually:** Rotate camera platform by hands and fix it for about 1-2 seconds - motors will resist for a while, then the camera will stay in new position. The same way you can set the level of the horizon.

**-Brightness Mode:** Turn handle over 90 degree along roll axis.

**-Bluetooth Control:** Turn on bluetooth control by long pressing shoot button, after pairing with smartphone, run Moves successfully, you can switch front / rear lenses, zoom in / out, etc.

## Specifications

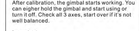
| | |
|---|---|
| Net Weight (battery not included) | 450g |
| Weight (battery included) | 525g |
| Gross Weight | 1.1kg |
| Dimensions (Handle Folded) | 320*85*165mm |
| TilPitch Range | 270 degree ( upward 90°, downward 180° ) |
| Roll Rotate Range | 360 degree ( left 180°, right 180° ) |
| Pan/Yaw Range | 360 degree ( left/right 180° ) |
| Vibration | 0°~5°( ±0.01°)(0°~±0.5°) |
| Operating Voltage | 5V ( Input: 5V ⎓ 2A ; Output: 5V ⎓ 500mA ) |
| Battery Life | 12 hours |
| Supported Smartphone | phone(6.5"Max)(Suggestion:165*80*8)(Lock-out) |

## Using the Gimbal

### Assembling and Disassembling

The gimbal consists of two parts: gimbal head and handle. By default, it goes fully assembled. If you should need to disassemble, assemble it according to the following instruction:

1. Unscrew the battery cap to have access to the battery compartment, insert the positive terminal of the batteries into the compartment first. Screw the battery cap.




2. For smartphones bigger than 5", use the counterweight. The counterweight should be attached to the pitch motor.

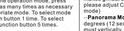
## Mount and balance the Mobile Phone

1. Slide the gimbal pressed off 90 degrees counterclockwise to the unlocking position in the smartphone holder.

2. It is very important that the system is well balanced before switching on the motors. The system is balanced if the smartphone remains level when it is left or right as needed. Then, loose the screws on the smartphone holder and balance the system in all three axes by PITCH axis.

## Smartphone Camera Bluetooth Wireless Control

## How to use joystick




Move joystick upward and hold it for about 3 seconds to tilt up and tilt down camera lens, move joystick leftward and rightward to pan camera lens left and right.

## Portrait Mode Instruction:

## FCC STATEMENT :

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,

(2) This device must accept any interference received, including interference that may cause undesired operation.

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined

## FCC Radiation Exposure Statement:

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

-by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving an tenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

## Shooting Skills

1. To shoot steady video footages, hold the handle firmly, try to keep your hands and footsteps steady and even.
2. Press the function button to choose proper mode, adjust the lens angle through joystick or hand to get the best angle.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This manual is subject to change without prior notice