3-Axis Stabilized Handheld Gimbal for Smartphone

Guilin Feiyu Technology Incorporated Company
User Manual    EN    V 1.2
Product overview

1. Structure

- Smartphone shown in illustrations is for reference only

2. Included items
Operation guide

1. Gimbal charging
   - Please fully charge the battery before powering on the gimbal for the first time
   Charging with Micro USB cable Indicator is red in charging status, and becomes green when battery full.

<table>
<thead>
<tr>
<th>Micro USB cable</th>
<th>5V/2A USB charger (not included)</th>
</tr>
</thead>
</table>

   (1) Please install the smartphone before powering on the gimbal.
   (2) When not in use, turn off the gimbal and then remove the smartphone.

2. Smartphone charging
   Charge the phone via cable and choose the corresponding cable according to charging port.

3. Insert smartphone
   - It’s recommended to remove your smartphone protective case.
   - Smartphone holder width range: 57-84mm.

   Place smartphone in holder so that the phone is snug against the back of the holder.
If the smartphone is unbalanced after being mounted, refer to the following steps to make adjustment.

1. If smartphone tilts to the left, pull cross arm out to the right until phone is horizontal.
2. If smartphone tilts to the right, push cross arm in to the left until phone is horizontal.

4. Smartphone rotation

Vertical Shooting

It is effective only when it is set right from the pitch axis, please see the graph.
Tip:

Load weight: 100~200g

Load weight: ≤130g

5. Power on / off

- Make sure the smartphone is secure before powering on the gimbal.
- When battery is low, the status indicator will blink red three times every 5 seconds. Please charge gimbal.

Power on: press and hold the function button until the status indicator turns green and gimbal beeps.

Power off: press and hold the function button until the status indicator changes from a flashing red to a solid red light and gimbal beeps.

Functions modes

Operation method

Status Indicator Explanation

- The current mode of the gimbal can be identified by the indicator status.

<table>
<thead>
<tr>
<th>Indicator status</th>
<th>Mode / Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue light flashes once</td>
<td>Pan mode</td>
</tr>
<tr>
<td>Blue light flashes twice</td>
<td>Follow mode</td>
</tr>
<tr>
<td>Constant Blue light</td>
<td>Lock mode / gimbal initializing / motion control mode</td>
</tr>
<tr>
<td>Blue light keeps flashing</td>
<td>Initialization failure / malfunction</td>
</tr>
<tr>
<td>Red light flashes three times</td>
<td>Low power</td>
</tr>
<tr>
<td>Red light keeps flashing</td>
<td>Gimbal powering off</td>
</tr>
</tbody>
</table>

Bluetooth shutter release button

By connecting bluetooth or Feiyu ON App, you can operation as follow

<table>
<thead>
<tr>
<th>Button</th>
<th>Mode / Indicator status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single click</td>
<td>Photo / Status indicator flashes green once</td>
</tr>
<tr>
<td>Press &amp; Hold</td>
<td>Video / Status indicator remains solid green during recording</td>
</tr>
</tbody>
</table>

Troubleshooting: if the gimbal fails to connect to the Feiyu ON App, power off the gimbal. Press and hold both the bluetooth shutter release button and the function button to reset the bluetooth connection.
The firmware upgrade may occur manual operation function and the actual product features do not match. Please get the latest version manual on the official website.

<table>
<thead>
<tr>
<th>Function button</th>
<th>Function</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single click</td>
<td>Panning Mode / Lock Mode</td>
<td>Single tap to switch between panning mode and lock mode</td>
</tr>
<tr>
<td>Double clicks</td>
<td>Follow mode</td>
<td>In the follow mode, the joystick is pushed to the left/right, to push and control the angle is -30° ~ +30°, push it up ward or down ward to realize pitching control. Under follow mode, single click the function button and enter into panning mode</td>
</tr>
<tr>
<td>Triple clicks</td>
<td>Switching camera lens</td>
<td>It needs to be used with Vicool APP</td>
</tr>
<tr>
<td>Four clicks</td>
<td>Motion Control mode</td>
<td>Both the panning and tilting directions can be rotated</td>
</tr>
<tr>
<td>Five clicks</td>
<td>Initialization</td>
<td>After the initialization succeeds or fails, you can click the function button to wake up the gimbal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trigger button</th>
<th>Function</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press &amp; Hold</td>
<td>Temporary Lock</td>
<td>In the pan mode or follow mode, holding the trigger button temporarily locks panning and tilting until released</td>
</tr>
<tr>
<td>Double clicks</td>
<td>Reset to default</td>
<td>Centers the camera away from the user on all 3 axes (pan, tilt and roll) and switches back to the default pan mode</td>
</tr>
<tr>
<td>Focusing button</td>
<td>Function</td>
<td>Explanation</td>
</tr>
<tr>
<td>Sliding up-down</td>
<td>Adjust focus</td>
<td>Adjust field-of-view (FOV) (It needs to be used with Feiyu ON APP)</td>
</tr>
</tbody>
</table>

### Modes

**Panning mode (Default mode)** — The rolling and tilting direction are fixed, and the smartphone moves according to the hand movement direction of the user.  
**Follow mode** — The rolling direction is fixed, and the smartphone moves according to the hand movement direction of the user.  
**Lock mode** — The orientation of the smartphone is fixed.  
**Reset** — Return to pan mode, all to return to default.

### Manual Lock

Smartphone can be manually positioned while in lock mode, follow mode or pan mode. Both the pan and tilt can be manually set.

Manually move smartphone to desired position, and hold for half a second. New tilt and/or pan positions are automatically saved.

### Motion Control Mode

The gimbal can easily create constant speed moves by using the motion control mode. This mode can be used for recording both regular video and timelapse photography. For best results, attach gimbal to the FeiyuTech tripod, or other tripod, to keep it completely still.

1. **Set motion speed in Feiyu ON App**
   
   To set the motion speed, connect to the Feiyu ON App and select desired speed from the motion control option in the settings menu.
Motion control speed reference table

<table>
<thead>
<tr>
<th>Vimble2 Rotation speed</th>
<th>12 seconds / turn</th>
<th>18 seconds / turn</th>
<th>24 seconds / turn</th>
<th>30 seconds / turn</th>
<th>1 minute / turn</th>
<th>2 minutes / turn</th>
<th>4 minutes / turn</th>
<th>8 minutes / turn</th>
<th>15 minutes / turn</th>
<th>30 minutes / turn</th>
<th>1 hour / turn (default)</th>
<th>4 hours / turn</th>
<th>8 hours / turn</th>
</tr>
</thead>
</table>

2. Enter motion control mode by clicking the function button 4 times

3. Set rotation start position

4. Set rotation end position

5. The gimbal is motion control from rotation start position to rotation end position

Gimbal Initialization

Initialize gimbal when:
(1) Smartphone fails to remain level.  
(2) Gimbal has no been used for a long period of time.  
(3) Gimbal is used in extreme temperature variations.

Exit operations:
1. After auto-rotation is finish, the stabilizer automatically exits auto-rotation mode and enters the follow mode.  
2. Enter the motion control mode or motion control setting, double click the trigger button to exit the motion control mode and reset the gimbal.

Note: if the initialization is not successful, click the function button to wake up. restart initialization process.
1. Download App

Please download Feiyu ON at your smartphone app store or can the QR code.

* Requires iOS 9.0 or later, Android 6.0 or later.

2. Firmware upgrade

Upgrade the firmware through the Feiyu ON App.
(1) Click the icon
(2) Select upgrade type.
(3) Follow the prompts to upgrade the firmware.

Upgrade type introductions:

**Gimbal update**: Repair / update or newly add gimbal control / function / parameter and etc.

**Keyboard update**: Repair / update or newly add button/interaction functions, repair few bugs and etc.
Technical Specifications

Please correctly assemble the gimbal in accordance with the diagram.

Please install the smartphone before turning on the gimbal.

When the gimbal is not in use or placed on the table, please ensure it is powered off.

<table>
<thead>
<tr>
<th>Max. tilting range</th>
<th>320°</th>
<th>Load weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. rolling range</td>
<td>320°</td>
<td></td>
</tr>
<tr>
<td>Max. panning range</td>
<td>320°</td>
<td></td>
</tr>
<tr>
<td>Operation time</td>
<td>operation time in motion shooting: around 5 hours; operation time in normal shooting: around 10 hours</td>
<td></td>
</tr>
<tr>
<td>Adaption phone</td>
<td>smartphones (mobile phone width range 57-84mm)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>428g (not including smartphone)</td>
<td></td>
</tr>
</tbody>
</table>

**DISCLAIMER**

Any user for illegal purpose prohibited. Users are responsible for use products.

The Company assumes no liability for any risks related to or resulting from the debug and use of this product (including direct, indirect or third-party losses).

For any unknown sources of using, we will not be at any services.

Updating and changes of product firmware and program me may cause changes in function descriptions in this user manual, please read the instructions carefully before upgrading the firmware and use the corresponding user manual.

You can get the latest user manual from the official website: www.feiyu-tech.com

FeiyuTech reserves the right to amend this manual and the terms and conditions of use the gimbal at any time.

**Attention**

- Please correctly assemble the gimbal in accordance with the diagram.
- Please install the smartphone before turning on the gimbal.
- When the gimbal is not in use or placed on the table, please ensure it is powered off.