SUMMON+

3-Axis Stabilized Handheld Camera

GuiLin FeiYu Technology Incorporated Company
I Product Overview

Summon+ is a controllable all-in-one camera with 3-axis stabilization function. It has simple and elegant structure and is easy to operate, the photographing and shooting are controllable so as to take stable HD videos and pictures. It has realized some functions including fixed point shooting, following shooting and time-lapse photography.
II How to use Summon+

1. Function introduction of buttons and ports

- **Photo / Video switchover button**
  Single tap this button to switch below Photo mode and Video mode.
  Long press this button to open WiFi function, and long press again to turn off WiFi function.
  The default is Video mode.

- **SD reading port**
  Connect with USB data cable by this port to upgrade firmware or charge the battery.

- **USB port**
  Connect with USB data cable by this port to upgrade firmware or charge the battery.
  Please refer to “Firmware upgrade” for the operation of firmware upgrade.
  Please refer to “Charging mode” for the charging mode.

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1. Install battery

Remove the hand shank and insert one 22650 battery into it.

2. Power on / off

The function button can control power on or power off.

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Power on:
Long press the function button until the green light up, then release it to turn on the gimbal.

Power off:
Long press the function button until the red light always on, then release it to turn off the gimbal.

⚠️ If the battery power is too low, the screen shall turn off automatically, please long press the function button for 3 seconds so as to make sure the unit completely powers off. Then you can recharge or replace the battery.
2. Camera menu introduction

Menu display in Video mode

- Media Playback
- Movie Size: 1080
- Field Of View: H
- Distortion Correct: ON
- Slow Motion: OFF
- White Balance: AUTO
- Timelapse: OFF
- Timelapse Duration: OFF
- Level Speed
- Vertical Speed
- Follow Setting
- Invert Mode: OFF
- Date Stamp: OFF
- Date & Time
- Language: EN
- System
- Wi-Fi-Password
- Format

Menu display in Photo mode

- Media Playback
- Resolution: 16M
- Field Of View: H
- Distortion Correct: ON
- Scheduled picture: OFF
- Photo Burst: OFF
- Timelapse: OFF
- Timelapse Duration: OFF
- Level Speed
- Vertical Speed
- Follow Setting
- Invert Mode: OFF
- Date Stamp: OFF
- Date & Time
- Language: EN
- System
- Wi-Fi-Password
- Format

How to use Summon+

- Joystick

  Control the orientation of camera lens
<table>
<thead>
<tr>
<th>Joystick</th>
<th>Camera lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up</td>
<td>Down</td>
</tr>
<tr>
<td>Down</td>
<td>Up</td>
</tr>
<tr>
<td>Left</td>
<td>Up</td>
</tr>
<tr>
<td>Right</td>
<td>Right</td>
</tr>
</tbody>
</table>

  Control camera menu *
<table>
<thead>
<tr>
<th>Joystick</th>
<th>Camera menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up</td>
<td>Upward selection</td>
</tr>
<tr>
<td>Down</td>
<td>Downward selection</td>
</tr>
<tr>
<td>Left</td>
<td>Return to the previous menu / Exit</td>
</tr>
<tr>
<td>Right</td>
<td>Access the next menu / Confirm</td>
</tr>
</tbody>
</table>

- Function button

  Switch working mode or access camera menu.
  Please refer to “Introduction of camera menu” and “Introduction of working mode”

- Shutter

  Single tap this button to start or stop photographing or recording.
  In Photo mode, single tap this button to take a picture.
  In Video mode, single tap this button to start recording, and press again to stop recording.
  Double tap this button to turn on the fill flash, and double tap again to turn off the fill flash.

  The video files are named as MOV_xxxxx.mov, for example, “MOV_00001.mov”
  The picture files are named as IMG_xxxxx.jpg, for example, “IMG_00001.jpg”

Triple tap function button to access camera menu.
### Menu introduction

### Media

#### Playback

<table>
<thead>
<tr>
<th>Joystick</th>
<th>VIDEO</th>
<th>JPG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up</td>
<td>Check the previous video</td>
<td>Check the previous picture</td>
</tr>
<tr>
<td>Down</td>
<td>Check the next video</td>
<td>Check the next picture</td>
</tr>
<tr>
<td>To the left</td>
<td>Return to menu</td>
<td>Return to menu</td>
</tr>
<tr>
<td>To the right</td>
<td>Play videos</td>
<td>Check picture information</td>
</tr>
</tbody>
</table>

Under the "VIDEO" or "JPG" option, click the "Photo / Video switchover button" enter the delete menu, you can choose to delete a single file or delete all files.

#### Movie Size

Only display in Video mode. You can choose from below video sizes:

- 1080P (60fps)
- 1080P (30fps)
- 720P (120fps)
- 720P (60fps)
- VGA (240fps)
- 4K (25fps)
- 4K (15fps)
- 2.7K (30fps)
- 1440P (30fps)

Factory default setting is 1080P (60fps)

Tips: non-high-speed micro SD card is not available for 4K format shooting.

#### Resolution

Only display in Photo mode. You can choose from below:

- 16M (4508*3456)
- 12M (4000*3000)
- 8M (3264*2448)
- 5M (2592*1944)

Factory default setting is 16M (4508*3456)

### Field Of View

You can choose from Wide, Medium and Narrow grades.

The factory default setting is Wide.

### Distortion Correct

Repair the distortion caused by camera lens to avoid the barrel shape distortion of pictures. Factory default setting is “On”.

### Slow Motion

Open the slow motion function. Only display in Video mode except 4K video sizes. Factory default setting is “Off”.

### White Balance

Tap to adjust the white balance. Only display in Video mode. Can be set to be Auto / Daylight / Cloudy / Fluor H / Tungsten, the boot-up default is “Auto”.

### Scheduled picture

Only display in Photo mode. Factory default setting is “Off”.

You can choose from below:

<table>
<thead>
<tr>
<th>2S</th>
<th>Take a picture after 2 seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>10S</td>
<td>Take a picture after 10 seconds</td>
</tr>
<tr>
<td>Double</td>
<td>Take the first picture after 10 seconds and take the second picture after 2 seconds</td>
</tr>
<tr>
<td>Off</td>
<td>Don’t use this function</td>
</tr>
</tbody>
</table>
### Photo Burst
Only display in Photo mode. 3 / 5 / 10 pictures are settable for continuous shooting, factory default setting is Off. Press Shutter button for continuous shooting after setting.

### Timelapse
Open the timelapse function and set the internal time for shooting two adjacent photos. You can choose from 3 sec / 5 sec / 10 sec / 30 sec / 1 min / Off. Factory default setting is Off.

<table>
<thead>
<tr>
<th>Timelapse Duration</th>
<th>Set the shooting time of time-lapse photography.</th>
</tr>
</thead>
</table>

### Level Speed
Open the panning axis rotation function and set the panning axis rotation speed for time-lapse photography.

The settable numerical range is $-20 \leftrightarrow 0 \leftrightarrow +20$ ("+" stands for clockwise rotation, "-" stands for anticlockwise rotation), the bigger the number the faster the rotation speed, the maximum rotation speed is $360^\circ / 6$ min, and the minimum is $360^\circ / 120$ min.

If the number increases by 1, the time needs for rotating $360^\circ$ shall decrease by 6 minutes.

If the number decreases by 1, the time needs for rotating $360^\circ$ shall increase by 6 minutes.

The time needs for rotating $360^\circ$ between two numbers is as following table ("min" stands for minutes)

<table>
<thead>
<tr>
<th>Number</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td>120</td>
<td>114</td>
<td>108</td>
<td>102</td>
<td>96</td>
<td>90</td>
<td>84</td>
<td>78</td>
<td>72</td>
<td>66</td>
<td>60</td>
<td>54</td>
<td>48</td>
<td>42</td>
<td>36</td>
<td>30</td>
<td>24</td>
<td>18</td>
<td>12</td>
<td>6</td>
</tr>
</tbody>
</table>

### Vertical Speed
Turn on the tilting axis rotation function to set the tilting axis rotation speed for time-lapse photography. Please refer to “Level Speed setting”.

### Follow Setting
You can set the follow speed and follow dead zone of panning axis.

### Invert Mode
Invert the screen display after opening. Can be used for inversion shooting. Factory default setting is “Off”.

### Date Stamp
The shooting date and time shall be displayed on the picture after this function is opened. Settable options: Off / Date / Date & Time. Factory default setting is Off.

### Date & Time
Can set the current date, time and format. Turn the joystick to the right to successively select the date and time format desired to be modified, turn the joystick up to increase the numerical value while turn it down to decrease the numerical value.

After setting all items, turn the joystick to the right to save the settings and return to the previous menu.

### Language
Set the menu to be in English / Simplified Chinese / Traditional Chinese / German / French / Spanish / Portuguese. The factory default setting is English.

### System
<table>
<thead>
<tr>
<th>Factory Reset</th>
<th>Restore to the factory settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Info</td>
<td>Check information related to the system</td>
</tr>
<tr>
<td>Card Info</td>
<td>Check the capacity and free space of SD card</td>
</tr>
</tbody>
</table>

### WIFI-Password
Set WiFi password.

### Format
Format SD card.
3. Introduction of photographing and shooting

Photographing
Switch to Photo mode by “Photo / Video switchover button”. Single tap “Shutter” button to photograph.
**Special modes:** Photo Burst / Scheduled picture

Shooting
Switch to Video mode by “Photo / Video switchover button”. Single tap “Shutter” button to start recording and press this button again to stop recording.
**Special mode:** Slow Motion / Panorama shooting

Timelapse  (Please refer to “Actual Operations” for detailed operations)
Automatically take a picture in the set time interval, panning axis moves by the set horizontal speed (or tilting axis moves by the set vertical speed), and automatically compose a video after shooting.

Panorama Shooting
In video mode, triple tap the "Shutter" button to start panorama shooting, heading axis will automatically rotate shooting.  **Shooting range:** 360°  **Recording Time:** 8s

4. Introduction of operating mode

<table>
<thead>
<tr>
<th>Working mode</th>
</tr>
</thead>
</table>
| **Panning mode**  
The camera is allowed to pan left or right. Vertical tilts or rolls are disabled. |
| **Panning and Tilting mode**  
The camera is allowed to pan left or right and tilt up and down. Rolls are disabled. |
| **Lock mode**  
The camera stays in its current orientation. All panning, tilting and rolls are disabled. |

<table>
<thead>
<tr>
<th>Operation</th>
<th>Function</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single tap</td>
<td>Panning Mode / Lock Mode</td>
<td>Single tap to switch between panning mode and lock mode</td>
</tr>
<tr>
<td>Double tap</td>
<td>Panning and Tilting Mode</td>
<td>Under panning and tilting mode, single tap to switch to lock mode</td>
</tr>
<tr>
<td>Triple tap</td>
<td>Access camera menu</td>
<td>Control camera menu by the joystick (Please refer to &quot;Joystick&quot;)</td>
</tr>
<tr>
<td>Quadruple tap</td>
<td>Reset</td>
<td>Reset the tilting axis to initial orientation and initial mode</td>
</tr>
<tr>
<td>Long press for 1 second</td>
<td>Standby</td>
<td>Single tap again to wake it up, or triple tap to initialize (Please refer to “Initialization”)</td>
</tr>
</tbody>
</table>

Other functions

<table>
<thead>
<tr>
<th>Function</th>
</tr>
</thead>
</table>
| **Reset**  
Reset the tilting axis to initial orientation and initial mode. |
| **Standby**  
In standby mode, keep in power-up state, the motor stops working, the indicator light flashes for three times, and single tap again to wake it up. |
5. LED indicator instructions

<table>
<thead>
<tr>
<th>Color</th>
<th>Flashes</th>
<th>Mode / Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>Single</td>
<td>Panning mode</td>
</tr>
<tr>
<td>Blue</td>
<td>Double</td>
<td>Panning and Tilting mode</td>
</tr>
<tr>
<td>Blue</td>
<td>Triple</td>
<td>Standby</td>
</tr>
<tr>
<td>Blue</td>
<td>Always on</td>
<td>Lock mode / Initializing</td>
</tr>
<tr>
<td>Blue</td>
<td>Quickly</td>
<td>Initialization failure / Malfunction</td>
</tr>
</tbody>
</table>

6. Inversion shooting

Turn the hand shank to the upward side of camera to realize the inversion for shooting in the scenes with low angle.

7. Firmware upgrade

Upgrade steps

1. Please visit the official website www.feiyu-tech.com to download the relevant programs for upgrading, including USB drive program, firmware upgrade software and product firmware, and install the relevant software, decompress the firmware files for standby application.

2. Connect the USB cable with micro port as the above picture.

3. Please upgrade the relevant firmware according to the operation instructions of firmware upgrade software.
8. Charging

After power off, connect the USB data cable to USB port, and connect with 5V USB power adapter by USB cable (equipped by user).

Or take out the battery, and use the corresponding charger to charge the battery (equipped by user).

The red indicator light is on during charging, and green light is on after the battery is fully charged.

9. Gimbal Horizontal Angle Adjustment

The horizontal angle needs to be adjusted whenever the following situations happen to the gimbal:

1. There is small angular deviation between tilting angle and horizontal line after boot-up.
2. There is small angular deviation between rolling angle and horizontal line.
3. Under lock mode, panning angle drifts.

Adjusting steps:

1. In boot-up state, long press the Function Button until the red light flashes quickly to enter standby status, the blue light will flash 3 times periodically.
2. Lay the gimbal on a static flat surface and triple tap the Function Button. Initialization is successful when the blue light changes from constant on to flashing 3 times periodically.

When the initialization failed, the LED indicator will flash quickly, repeat step (2) to reinitialize.

10. Operating example

Take time-lapse photography as an example:

1. Install the battery, long press the function button for 0.5 second to power on.
2. Triple tap function button to access the menu.
(3) To select “Timelapse”, turn the joystick to the right to access this interface, you can set the interval time of continuous pictures taken by time-lapse photography. For example, you can set it as 5 seconds. Turn the joystick to the right to save, and return to the previous menu.

(4) To select “Timelapse Duration”, turn the joystick to the right to access this interface, you can select from unlimited / 5 / 10 / 15 / 20 / 30 / 60 minutes. The default is “unlimited”, i.e. no limit to the shooting time. Turn the joystick to the right to save, and return to the previous menu.

(5) To select “Level Speed”, turn the joystick to the right to access this interface, set the speed of panning movement, take “+15” as an example (“+” is for clockwise rotation, “-” is for anticlockwise rotation). Turn the joystick to the right to save, and return to the previous menu.

(6) Single tap the Shutter after setting, panning axis shall rotate according to the set speed and take a picture for every 5 seconds. The pictures shall automatically generate videos after shooting.

Single tap the Shutter button to end the shooting in advance, the pictures shall automatically generate videos after shooting and can be previewed in “Media Playback”.
### III Product Parameters

#### Weight: 350g
(Not including battery)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>350g</td>
</tr>
<tr>
<td>(Not including battery)</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
</tr>
<tr>
<td>97 mm x 81 mm x 232 mm</td>
<td></td>
</tr>
<tr>
<td>Tilt angle range</td>
<td>310°</td>
</tr>
<tr>
<td>Rolling angle range</td>
<td>310°</td>
</tr>
<tr>
<td>Panning angle range</td>
<td>360°</td>
</tr>
<tr>
<td>Maximum control speed</td>
<td>±120°/s</td>
</tr>
<tr>
<td>Battery model</td>
<td>22650</td>
</tr>
<tr>
<td>Working voltage</td>
<td>3.7V ~ 4.2V</td>
</tr>
<tr>
<td>Display screen</td>
<td>2.0 inch / 4:3, Resolution: 320x240</td>
</tr>
<tr>
<td>ISO</td>
<td>50~3200, Automatic</td>
</tr>
<tr>
<td>Video resolution</td>
<td>4K@25FPS / 4K@15FPS / 2.7K@30FPS / 2.7K@15FPS / 1920x1440P@30FPS / 1080P@60FPS / 720P@120FPS / VGA@240FPS</td>
</tr>
<tr>
<td>Photograph resolution</td>
<td>16M (4608<em>3456) / 12M (4000</em>3000) / 8M (3264<em>2448) / 5M (2592</em>1944)</td>
</tr>
<tr>
<td>Video format</td>
<td>MOV</td>
</tr>
<tr>
<td>Picture format</td>
<td>JPG</td>
</tr>
<tr>
<td>Working environment</td>
<td>Temperature: -10〜+50°C</td>
</tr>
<tr>
<td></td>
<td>Humidity: 30%〜80%</td>
</tr>
<tr>
<td>Storage environment</td>
<td>Temperature: -10〜+150°C</td>
</tr>
<tr>
<td></td>
<td>Humidity: 30%〜90%</td>
</tr>
<tr>
<td>Memory card</td>
<td>Maximum support 64GB</td>
</tr>
<tr>
<td></td>
<td>Support transfer rate of Class 10 Micro SD card</td>
</tr>
<tr>
<td>WIFI</td>
<td>High-performance and low power consumption SDIO WiFi 2.4G, 802.11b/g/n</td>
</tr>
<tr>
<td></td>
<td>Farthest distance is 10 meters in open and clear environment</td>
</tr>
</tbody>
</table>
Prohibit any user for any illegal purpose. Users will be responsible for all behaviors of purchase and use products.

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

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

The updating and changes of product firmware and program 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

Feiyu Tech reserves the right to amend this manual and the terms and conditions of use the product at any time.

**Attention**

- Please correctly assemble the product in accordance with the installation diagram.
- Please upgrade the firmware and program with the standard data cable.
- Please make sure the product is powered off when not in use.

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**Package List**

<table>
<thead>
<tr>
<th>Name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summon+</td>
<td>1</td>
</tr>
<tr>
<td>22650 rechargeable battery</td>
<td>1</td>
</tr>
<tr>
<td>USB cable (micro port, 50cm)</td>
<td>1</td>
</tr>
<tr>
<td>Lens filter cap</td>
<td>1</td>
</tr>
<tr>
<td>Portable bag</td>
<td>1</td>
</tr>
<tr>
<td>User manual</td>
<td>1</td>
</tr>
<tr>
<td>Warranty card</td>
<td>1</td>
</tr>
</tbody>
</table>

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**DISCLAIMER**

Please make sure the product is powered off when not in use.
Create More Possibilities

For more information, please visit our official website
www.feiyu-tech.com
Support Email: service@feiyu-tech.com