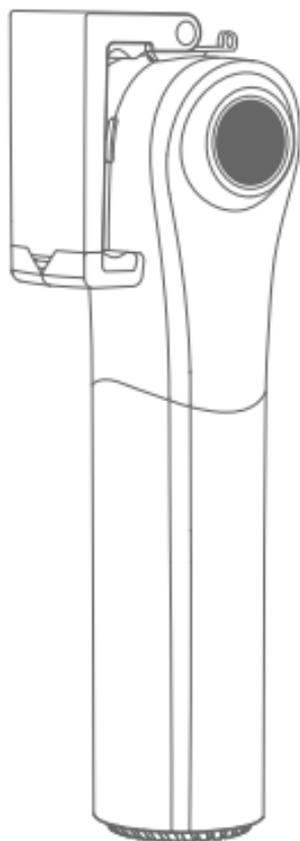


# SNOPPA M1

## User Manual

V1.0 2017.03



# USING THIS MANUAL

## ■ legend

 Important

 Tips

## ■ Install the Snoppa App

Scan the barcode below to download the Snoppa App, or search for “Snoppa App” on the App Store or Google play, and install the app on your mobile phone.



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Snoppa App only support iOS 8.0 or later, and Android 5.0 or later.

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# ACKNOWLEDGEMENT

Thanks for choosing Snoppa M1 handheld 3-axis motorized stabilizer, which is mainly designed for smartphones.

With the Snoppa's advanced 3-axis stabilizing algorithm and hardware, it can precisely detect the smartphone's position and control the built-in motors to compensate for natural arm movements, Balancing the smartphone and eliminate video shake.

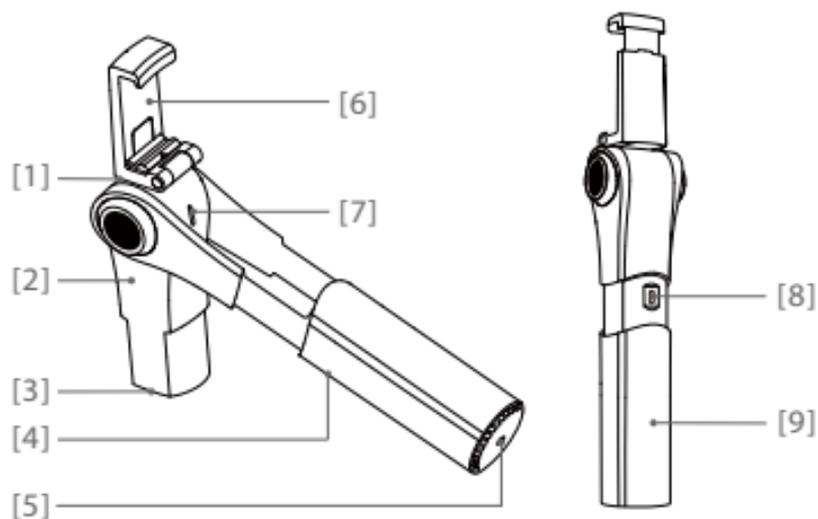


FOLDED



M1 EXPANDED

## ■ Product Diagram



[1] PAN Motor

[2] TILT Motor

[3] Counterweight

[4] ROLL Motor

[5] 1/4 screw mount

[6] Foldable mobile phone holder

[7] Indicator light & Function Button

[8] micro USB charging port

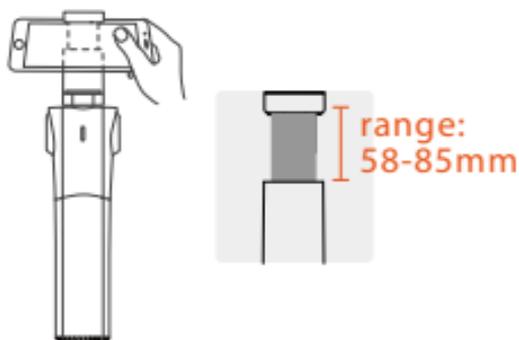
[9] Grip

# MOBILE PHONE SET UP

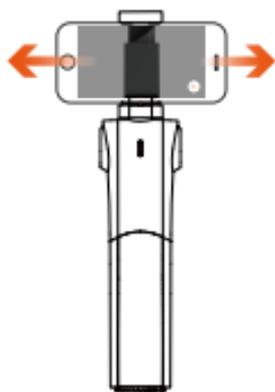
- 1 Unfold mobile phone holder



- 2 Mount the phone into the holder



- 3 Make sure the phone is clamped in the middle  
(Align to the center of gravity)



**⚠ Notice:** complicated phone cases are not supported. They may hinder the gimbal's ability to stabilize.

# USE SNOPPA M1

## ■ Power On and Power Off

The M1 can work with or without Snoppa App

When using the device without the Snoppa app you can directly power on the stabilizer through the indicator button, change tracking modes, and use a third party camera app (or stock camera app).

When using the Snoppa app, the M1 will need to be connected to the smartphone through Bluetooth, and can be controlled by the Snoppa app. With the app you have more special shooting features like panorama photography or motion time-lapse etc.

 **Notice:** Please avoid starting the gimbal without a phone mounted on the holder. This may cause issues for the gimbal.

## A. Without Snoppa App

### Power on



Twist 90° and then pull out (be careful of pinching hand when collapse the handle).

**⚠** *Notic: If the grip is not pulled out to the end position, the inside roll-motor will not work properly, and make the gimbal out of balance.*



Rotate the tilt-axis of the phone until the intersection angle goes more than 60 degree.



Press the indicator button, when it flashes green, press it again and hold it until the gimbal starts up. The indicator light will show a constant green.

### Power off

Press & hold for 2 seconds until the indicator light goes off.

## B. With Snoppa App

### Power on



Turn on the Bluetooth of the phone, launch Snoppa App, click the Bluetooth icon on the edge of the interface and enter the Bluetooth setting.

Connect to **SNOPPA – xxxx**

Default password: **000000**

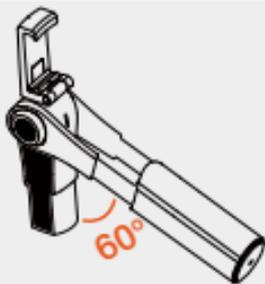


*To reset the password and device name, press the button and hold for 10 seconds.*

**▲ Notice:** Please connect the Bluetooth of the gimbal in the Snoppa App setting panel, instead of the mobile phone's system setting panel.



Once connected the **green light** on the gimbal will start blinking, and the Bluetooth icon will change and display the gimbal battery level.



Pull out the grip, rotate the tilt-axis of the phone until the intersection angle is more than 60 degree, and M1 will start to work automatically.

**Power off** Collapse the tilt-axis to the grip, quit Snoppa app, and the gimbal will power off after 20 seconds without any operation.

## ■ Indicator Light / Function Button

The indicator light underneath the phone holder is also a function button.



Indicator light/  
Function button

## Button Operation

(Using without App)

| Operation                      | Discreption                                    |
|--------------------------------|--|
| press + press & hold for 2 sec | turn on M1                                     |
| press one time                 | switch tracking modes<br>/reactivate bluetooth |
| press & hold for 2 sec         | turn off M1                                    |
| Press & hold for 10 sec        | Reset Bluetooth                                |

Pressing the indicator button is invalid when the stabilizer is connected by Snoppa App.

## ■ Standby & Wake up

### STANDBY



Collapse the tilt-axis to the grip, the gimbal will enter standby mode, and all the motors will stop working.

### WAKE UP



Rotate the tilt-axis down until the intersection angle is larger than 60 degree, motor stabilization will be reactivated.

### OFF MODE

Working with Snoppa App: collapse the tilt-axis to the grip, exit Snoppa app, the gimbal will power off automatically after 20 seconds without any operation.

Working without Snoppa App: Press & hold for 2 seconds, the gimbal turns off immediately.

### BLUETOOTH SLEEP & WAKEUP

Within 30 minutes without any operation, the Bluetooth will enter sleep mode, and the stabilizer will not be found in the Bluetooth device list.

Press the indicator button to wake up the Bluetooth of stabilizer, the indicator will flash green, and the device will show up in the device list and can be connected.

## ■ Overload Protection

1

When some axis is stuck for 1 second, the auto circuit protection will be triggered, and the stabilizer will enter standby mode automatically, all the motors stop working.

2



Please hold the handle when using (the picture on the left). When wrongly hold on the middle part (picture on the right), the handle will spin for a while and stop, and trigger the standby mode, all the motors stop working.

## Tracking Modes

- PAN TRACK** Pan camera by moving the grip left or right.
- LOCK** Shoot in a fixed direction no matter how the grip moves.
- OMNI TRACK** Pan and tilt camera by moving the grip up & down, left & right.



Pan track



Omni track

### Switch tracking modes

With Snoppa app connected

- ◀▶ Pan track
- ⊕ lock
- ✦ omni track

without Snoppa app

press indicator button  
(switch on a loop)

### Angle Adjustment

Hold and rotate the mobile phone to the angle you want and hold it for one second.

- In Lock Mode, pan and tilt angle can be both adjusted manually.
- In Pan Track and Omni Track modes, only tilt angle can be adjusted manually.

## ■ Horizontal & Vertical shooting

Horizontal shooting



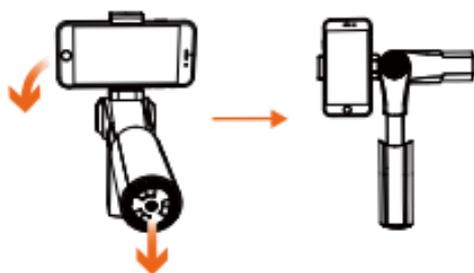
Vertical shooting



### SWITCH

Horizontal → Vertical

Hold the grip vertically, and turn the phone 90 degree left or right, and hold for one second.



Vertical → Horizontal

**Auto switch:**

raise the grip up to 45 degree, and the phone holder will turn automatically to horizontal direction.

**Manual:**

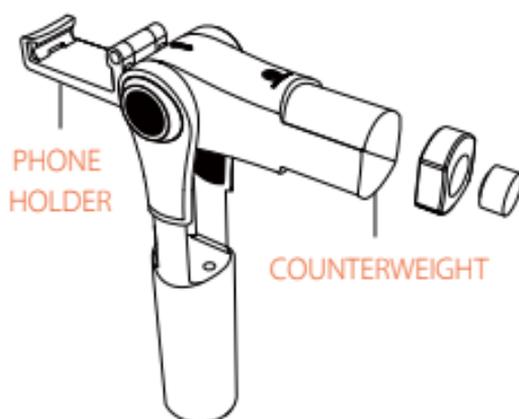
directly hold the mobile phone and rotate to a normal horizontal direction.

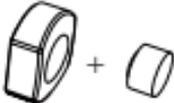


**▲ Notice:** it is important to choose the proper counterweight which adapts to the mobile phone's weight.

## ■ Counterweight (1)

For vertical shooting it is essential to the proper counterweight installed to properly balance different phones.



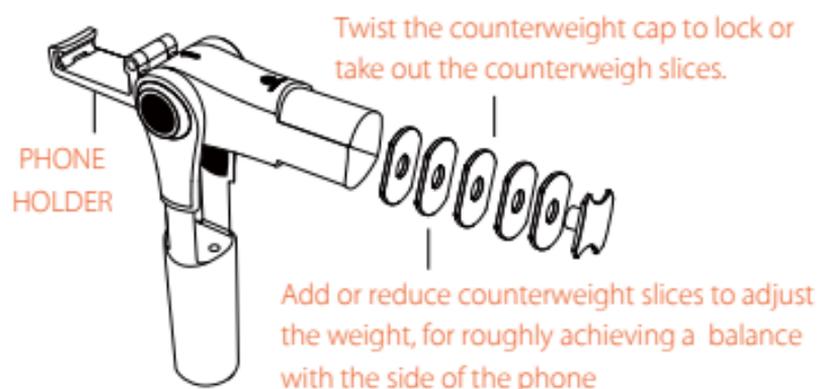
| ★ COUNTERWEIGHT COMBO ★   |   |   |
|---|---|---|
| combo A   | combo B   | combo C   |
| <br>plastic ring + metal solid | <br>metal ring | <br>metal ring + metal solid |
| works with iPhone 5/6/7 or similar weight   | works with phone weights between iPhone6/7 and iPhone6/7 plus                                     | Works with iPhone 6 plus/7 plus or similar weight   |

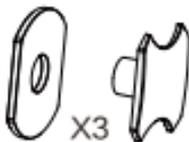
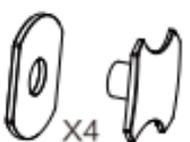
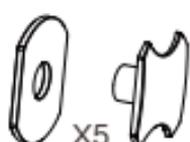


Use the provided magnetic tool to pull the counterweight out.

## ■ Counterweight (2)

When shooting vertically, please make sure to choose the proper counterweight to match phones of different weights.



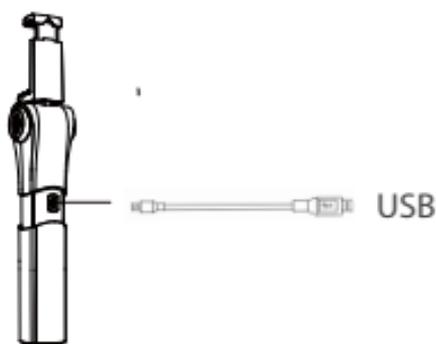
| ★ COUNTERWEIGHT REFERENCE ★   |   |   |
|---|---|---|
| combo A   | combo B   | combo C   |
| <br>X3 | <br>X4 | <br>X5 |
| Suitable for phone weights between 110-140g.<br>E.g: iphone5/6/7                          | Suitable for phone weights between 140-170g.<br>E.g: Mi Note 3<br>Mi 5s                   | Suitable for phone weights between 170-200g.<br>E.g:iphone plus                           |

# CHARGING

## Built-in Li-Po battery, which is not replaceable

Charge the gimbal with a micro USB cable  
(connect to power bank or phone adapter or pc etc.)

When charging the gimbal, the indicator will blink green,  
and will turn constant green when fully charged.



| Battery        |                  |
|----------------|------------------|
| Type           | Li-Po            |
| Capacity       | 1050 mAh         |
| Output voltage | 7.4V             |
| Energy         | 7.8Wh            |
| Battery life   | 500 cycles       |
| Charging time  | within 1.5 hours |
| Runtime        | 4 hours          |

# CAUTION!



In order to pull out the grip easily, it is recommended to twist the handle 90° first and then pull it out.



Make sure the handle is pulled out to the end position before use, otherwise the roll-motor will be stuck and won't work properly.



When you want to collapse the gimbal, grab the top part with one hand and align the handle, then use your other hand to tap/push the bottom of the handle. Don't put your hands near the middle to avoid getting pinched.



The gimbal will enter standby mode when the tilt-axis is collapsed to the handle, and all the motors will stop working. Please avoid letting the gimbal swing over the handle during use.

# SNOPPA APP

In addition to the basic stabilizing features, with the Snoppa App, there are other useful shooting modes like panorama, motion time-lapse etc. which can make videography more interesting and easy.

## ■ User Interface of Snoppa App



[1]  shooting parameters

 shutter

 light

 white balance

 focal distance

 ISO

[2]  Shooting mode

-  video
-  panorama: automatic 270° panoramic
-  motion time-lapse

 In the time-lapse mode 

there are extra settings including 

 interval setting  rotation magnitude setting

If rotation is needed for time-lapse shooting, please set the tracking mode to LOCK mode 

[3]  Start/stop recording

[4]  Switch front/back camera

[5]  Tracking mode

-  **pan track:**  
Roll and tilt are locked, pan camera by moving the grip left & right.
-  **lock**  
Roll, tilt and pan are all locked, shoot in a fixed direction no matter how the grip moves
-  **omni track:**  
Roll is locked, pan and tilt camera by moving the grip up & down, left & right.

[6]  Gallery

Videos and images will be automatically saved into Gallery. User can highlight videos by star level, and save to system photo album.

[7]  **Reference line**

There are three options:

None/Grid Line/Grid+Diagonals

[8]  **Resolution & Frame rate**

540p HD 60fps; 720p HD,30fps ; 1080p HD,30fps

1080p HD,60fps ; 2160p HD,30fps

May be different depending on phone models.

[9]  **system setting**

**BlueTooth Settings**

to choose and connect M1 device through Bluetooth

**Gimbal Settings**

to adjust tracking speed, and perform calibration

**Firmware Info**

to check and update firmware

**User Guide**

to read the built-in user guide

[10]  **Bluetooth connection**

Once bluetooth is connected, the icon will change and display the battery level.



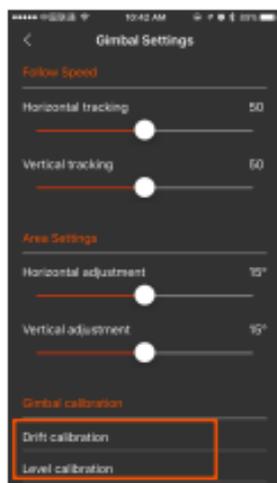
disconnected



connected

# AUTO CALIBRATION

Normally the gyro sensor is sensitive to the surrounding environment, and maybe out of balance due to the previous transport, you can perform the auto calibration procedure in the Snoppa App (Choose "Drift Calibration" or "Level Calibration" in the "Gimbal Settings" )



## Drift calibration

When the stabilizer is automatically rotating slowly, drift calibration is needed. Before carrying out the calibration, place the stabilizer on a surface and keep it still. The whole process will take 1~2 minutes, make sure the stabilizer is kept still during calibration, otherwise it can't get proper calibration result.

## Level calibration

When finding the stabilizer is leaning to one side after startup, level calibration is needed. Please follow the instructions on the screen to perform the level calibration.

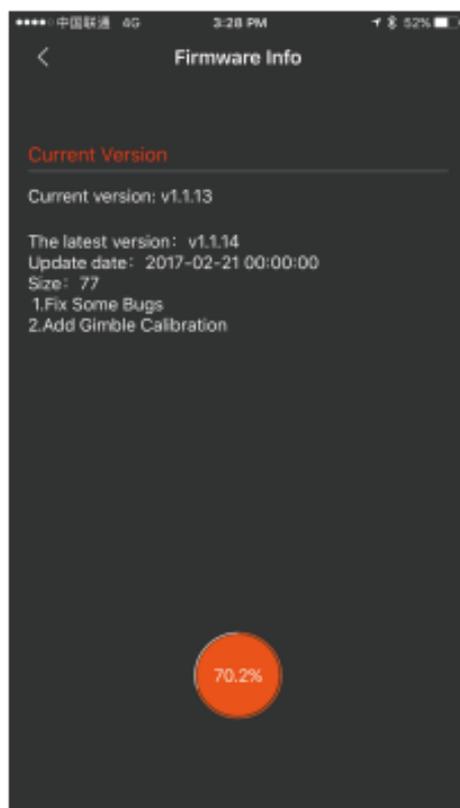
# FIRMWARE UPDATE

In order to get the best performance out of your gimbal, please make sure it is upgraded with the latest firmware.

When the Snoppa app is launched a pop-up message will appear on screen if a new firmware upgrade is available, prompting you to update.

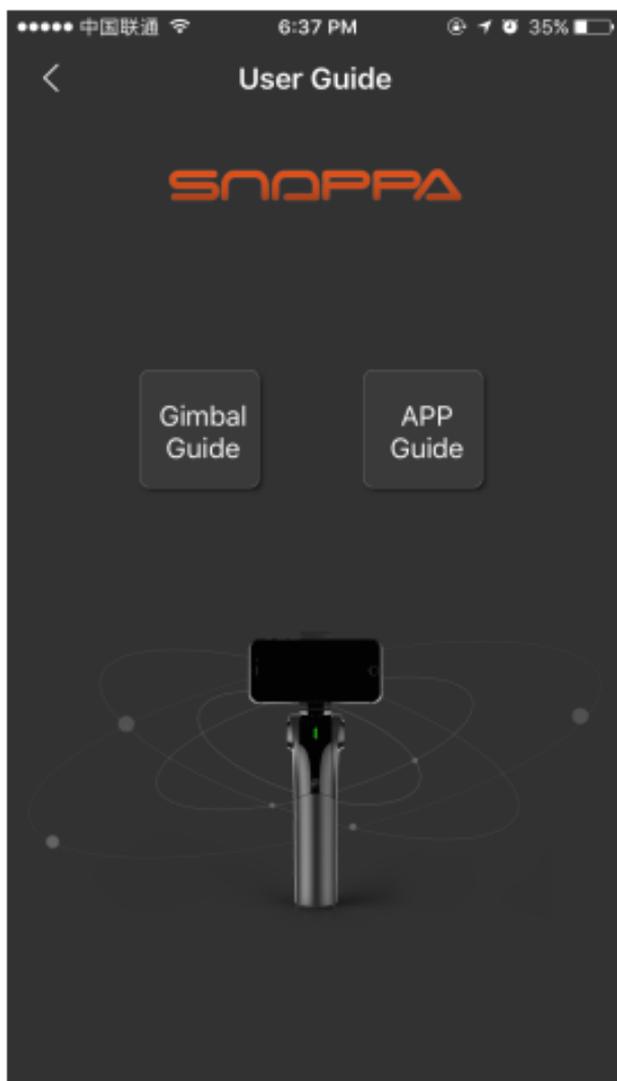
Make sure your smartphone has internet access. Connect the gimbal with Snoppa App by Bluetooth, enter the setting menu, choose "Firmware Info".

You can also manually check for and upgrade to the new firmware when a new upgrade is available.



# BUILT-IN USER GUIDE

In the setting menu, there's a built-in "User Guide", introducing both the M1 hardware and Snoppa application. You can open it whenever necessary.



# SPECIFICATIONS

| ITEM                      | SPECS  |
|---------------------------|--|
| Model                     | SP-M1  |
| Dimensions                | Folded 208 x 53 x 43mm<br>Unfolded 266 x 53 x 43mm                 |
| Weight (battery included) | 450 g  |
| Controllable range        | Pan: 360° free rotation<br>Tilt: ±100°<br>Roll: 360° free rotation |
| Mobile phone width range  | 58-85mm  |
| Wireless                  | Bluetooth Low Energy 4.0   |
| Runtime                   | 4 Hours  |

## BATTERY

|                       |           |
|-----------------------|-----------|
| Type                  | Lipo      |
| Capacity              | 1050mAh   |
| Output voltage        | 7.4V      |
| Energy                | 7.8Wh     |
| Battery life          | 500cycles |
| Charging temperature  | 0°~ 45°   |
| Operating temperature | -10°~ 45° |



If you have any questions about the document,  
Please visit our website: [www.snoppa.com](http://www.snoppa.com)

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