



### What's Included

- 1 x Stabilizer
- 1 x Battery Holder
- 1 x Battery Cap
- 1 x Quick Release Plate
- 1 x Adapter Plate
- 1 x Micro USB AC Adaptor
- 2 x ¼"-20 Screw
- 3 x 18650 Batteries



# Beholder MS1 Camera Stabilizer

## Specifications:

**Height:** 268 mm / 10.5 in.

**Length:** 168 mm / 6.6 in.

**Width:** 123 mm / 8 in.

**Weight w/o Battery:** 641 g / 1.4 lb.

**Weight w/ Battery:** 778 g / 1.7 lb.

**Unit w/ Packaging:** 1520 g / 3.4 lb.

## Packaging Dimensions:

390x200x100mm / 15.4 x 7.9 x 3.9 in.

**Range of Motion:** 90-180°

**Yaw:** 355°

**Pitch:** 355° ± 180°

**Roll:** 355° ± 60°

**Battery Life:** 2 -3 Hrs

## Electronics:

8-Bit board 2.40b7: 3-Axis Stabilizer gyro system

## Kit Includes:

Battery Cap	3 x Batteries (18650)
Battery Holder	Micro USB AC Adaptor
Adapter Plate	1/4"-20 Screw
Quick Release Plate	1/4"-20 Screw
Stabilizer	

## Maximum Supported Camera Weight:

850 g / 1.9 lb.

**Supported Camera Models:** Sony A7S, NEX series, Panasonic DMC, GH4, BMPCC, RX100, A6000, Canon G7, A7ii, and more.

**Battery:** Three 3.7v Li-Ion 18650 2600mAH

# 1. Introduction

The Beholder MS1 Camera Stabilizer is designed to support professional videographers of all levels. The stabilizer is easy to use and small enough to travel with. The Beholder MS1 Stabilizer is intuitive and offers a greater range of camera movement.

## 2. Battery Setup and Charging

### A. Battery Setup

- a. Install batteries positive side up into battery holder. Connect the Micro USB cable to the Battery Holder Micro USB port. Connect USB cable to 1.5-2 amp power supply.
- b. Battery charging time 4-5 hours.
- c. Green light means fully charged. Red light means charging. Flashing Red and Green lights mean almost fully charged.
- d. **WARNING:** using a charger that does not support 1.5-2 amps will result in batteries failing to charge.



### B. Battery Holder

- a. Battery Holder positive side up.
- b. Insert Battery Holder into handle, positive side first.
- c. Screw on battery cap and make sure the cap is secured snugly.



### 3. Camera Setup and Balancing

- A. Attach the quick release plate as shown with the longest slide pointing out towards the direction of the lens. Snuggly tighten the camera screw.
- B. Attach the camera with plate to stabilizer. Adjust the camera's position so that the gimbal remains level.
- C. Adjust the left-right balance of the camera. Small adjustments maybe needed.
- D. Adjust the front and rear balance. Once gimbal is balanced, tighten the quick release lock. If the camera does not balance perfectly, don't worry; the MS1 will usually be able to maintain stability.



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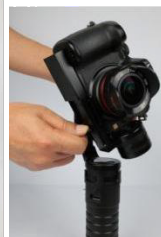
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#### E. Installation for small cameras

Cameras less than 400 g such as Sony NEX5R and BMPCC will need an adapter plate. The adapter plate will allow cameras that cannot mount properly to be mounted on the gimbal.

Installation steps:

1. Put the adapter plate on the camera, then tighten the screw.
2. According to your camera select an appropriate mounting position.
3. Check the position of the adapter plate, ensure the camera does not come in contact with the gimbal.

## 4. How to Use

A. To start the stabilizer: with the camera and gimbal level, place on a flat surface at 90 degrees, and then press the power button.

Note: Starting the stabilizer in a position other than 90 degrees will result in performance issues.



The correct way to start

The wrong way to start

### B. Joystick mode selection



- Press once for Lock Mode, which mode makes the stabilizer hold a position.
- Press again to change to Follow Mode, which makes the stabilizer follow the pan and tilt of your hand.
- To calibrate the gyro, press and hold the joystick for 3 seconds. The gyro controls the horizontal level. During calibration the MS1 must not be touched and the gimbal must be level.



Use the joystick to pan and tilt the camera.



### C .Battery Status

**Green light** means normal. **Red light** means low battery. **Flashing red light** means batteries need to be charged. Note: the MS1 will shut down to protect the batteries.

## 5. Other Features

A. The stabilizer can be mounted to a tripod, selfie stick, and more.

B. The LED USB light is great for shooting at night.

C. Charge a cell phone from the stabilizer. Note: stabilizer must be off.



## 6. Supported Cameras.

Sony A7S, NEX series, Panasonic DMC, GH4, BMPCC, RX100, A6000, Canon G7x, A7ii, and more.



## 7. Shooting Angle Range

Roll:  $45^\circ \pm 45^\circ$

Tilt:  $45^\circ, 90^\circ$



The following angles are not possible.



## 8. Attention

A. If the stabilizer needs to be calibrated, place the MS1 on a flat surface. Make sure the camera is balanced on the gimbal. Press and hold the joystick button for 3 seconds. If balance is not attained, repeat the calibration steps.

B. USB Ports:

The USB located on the handle is a 5v / 0.5A power output.

The Micro USB located on the handle is for remote control.

The Mini USB located on the gimbal is for accessing the 8-Bit board PID settings through Simple BGC 8-Bit 2.40b7.

## Learn More

More dynamic information at official website: [www.ikancorp.com](http://www.ikancorp.com)

## Support

Contact email: [support@ikancorp.com](mailto:support@ikancorp.com)

## WARNING!

This product comes from the factory tuned and ready to use. It is NOT meant to be user-serviceable, accessing and changing software settings and/or tuning settings will void warranty.

### CONDITIONS OF WARRANTY SERVICE

- Free service for one year from the day of purchase if the problem is caused by manufacturing errors.
- The components and maintenance service fee will be charged if the warranty period is expired.

Free Service will not be Provided in the Following Situations:(\*Even if the product is still within the warranty period.)

- Damage caused by abuse or misuse, dismantling, or changes to the product not made by the company.
- Damage caused by natural disaster, abnormal voltage, and environmental factors, etc.