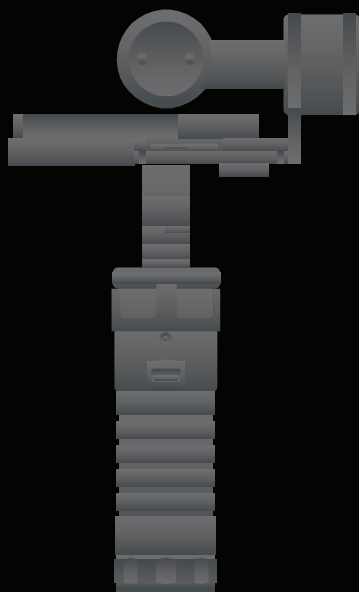




AXLER™



WISP
20M

USER MANUAL

THANK YOU FOR CHOOSING AXLER.

The Axler WISP-20M is a compact and lightweight handheld gimbal for mirrorless cameras. Ideal for event videography, documentaries, music videos, and similar productions, it's designed to help capture smooth movement and panning with cameras weighing up to 1.87 lb. (850 g).

This handheld gimbal uses quiet and reliable brushless motors to control all three axes (pitch, roll, and yaw), and it operates in two different modes. Selecting Follow mode enables the camera to smoothly follow as the device is panned or tilted. Lock mode allows the camera to remain in one position regardless of how the device is being moved. The WISP also has the option of operating in Low mode that inverts the stabilizer so you can experiment with creative camera angles.

This handheld gimbal is designed for ease of use. Attaching the camera and balancing it on the mounting platform is fast and effortless, and it is ready to use in minutes. The motors are powered by three rechargeable 18650 batteries that provide up to three hours of continuous operation. The light weight assures that you'll never miss a shot due to fatigue.

Adding to the WISP-20M's versatility, a 3/8" threaded socket in the handle allows for tripod or jib mounting. A compact LED light is included for shooting in dimly lit areas and is powered by the USB port on the handle.

CONTENTS

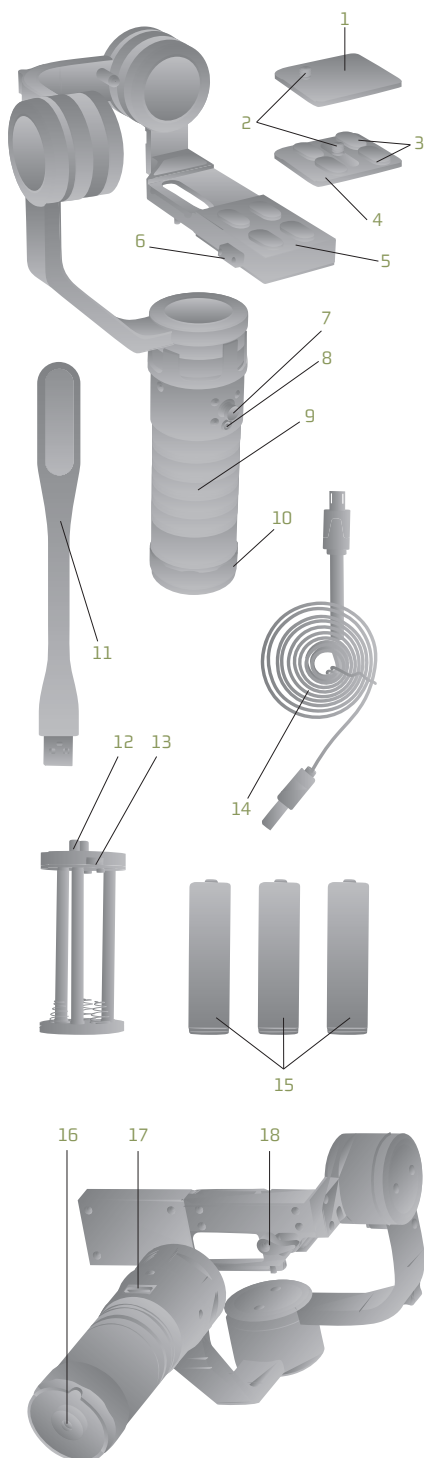
Precautions	4
Overview	5
Getting Started.....	6
Charging the Batteries	6
Attaching the Rubber Grips.....	7
Attaching the Camera.....	8
Balancing the Camera.....	9
Adjusting the Roll Angle (Side to Side)	9
Adjusting the Pitch Angle (Front to Back).....	10
The Camera Won't Fit or Balance	11
Using the WISP-20M	12
Follow Mode.....	12
Lock Mode	13
Low-Angle Setting	13
Control Stick	14
Recalibrating the Gimbals	14
Battery Status Light	14
Mounting the WISP-20M	15
Using the LED Light	15
Specifications.....	16
Troubleshooting	17
Warranty.....	18

PRECAUTIONS

- Please read and follow these instructions, and keep this manual in a safe place.
- Keep this product away from children.
- Make sure everything is secure before proceeding.
- Make sure that this product is intact and that there are no missing parts.
- To avoid damage to this product, be careful not to overtighten or improperly thread any of the threaded fittings.
- Do not exceed the maximum load capacity.
- Using a charger that does not support 1.5–2 A will result in the batteries failing to charge.
- Be careful not to catch your fingers in any of the moving parts.
- All images are for illustrative purposes only.
- Make sure all batteries are stored safely when not in use.
- Do not puncture batteries.
- Do not use batteries if they are damaged.
- Dispose of old batteries properly.

OVERVIEW

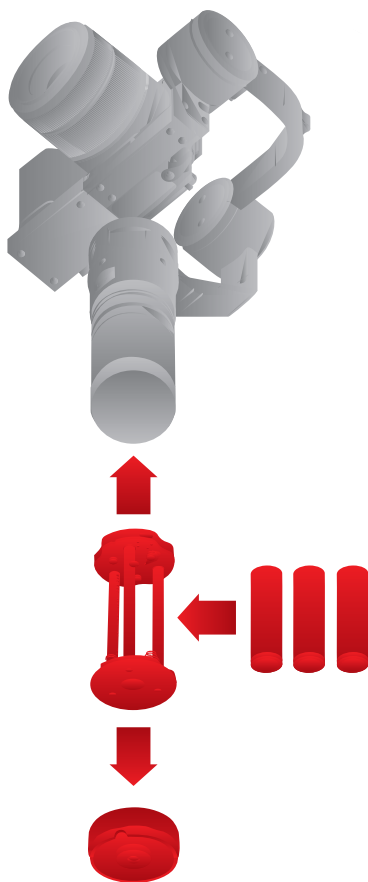
1. Adapter plate
2. Mounting screws (x2)
3. Rubber grips (x8)
4. Quick-release plate
5. Mounting platform
6. Reset button
7. Control stick
8. Power/calibration button
9. Grip
10. Battery compartment cap
11. LED light
12. Battery cradle contacts
13. Micro-USB port
14. Micro-USB charging cable
15. ICR 18650 batteries (x3)
16. 3/8" mounting socket
17. USB port (5v output)
18. Tension screw



GETTING STARTED

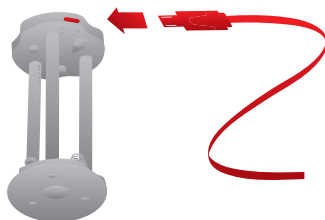
CHARGING THE BATTERIES

1. Remove the battery cradle by unscrewing the battery compartment cap and sliding the battery cradle out of the compartment.
2. Connect the Micro-USB cable to a 1.5–2 A power supply, and insert the Micro-USB plug into the port on the battery cradle. A green light will illuminate on the battery cradle, indicating that it is connected to your power source.
3. Place the batteries into the battery cradle. Make sure that the button tops (positive terminal) of the batteries touch the contacts at the top of the battery cradle.
 - A red light on the battery cradle indicates the batteries are charging.
 - A green light indicates the batteries are fully charged.
 - Battery charging time is approximately 4–5 hours. With an optional speed charger, the charging time is approximately 2–3 hours.



Note: Using a charger that does not support 1.5–2 A will result in the batteries failing to charge.

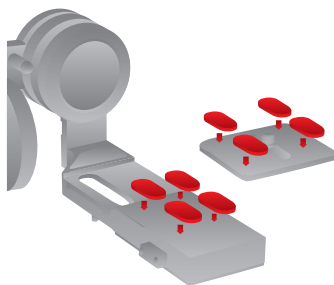
4. Once the batteries are charged, slide the battery cradle and batteries into the battery compartment. Make sure that the positive side goes into the compartment first.
5. Replace the battery cap by screwing it on until secure.



ATTACHING THE RUBBER GRIPS

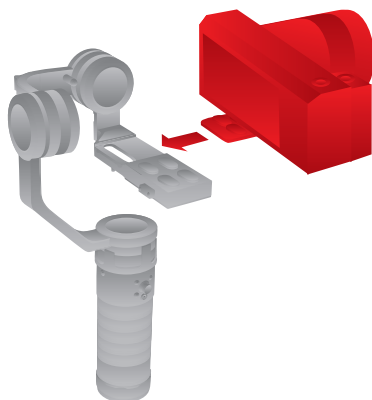
The WISP should not be used without the rubber grips. They create a firmer connection between your camera and the mounting surface, and they prevent scratches to your camera's finish.

Peel the rubber grips off the page, and stick them into the indented spaces in the mounting platform and the quick-release plate.



ATTACHING THE CAMERA

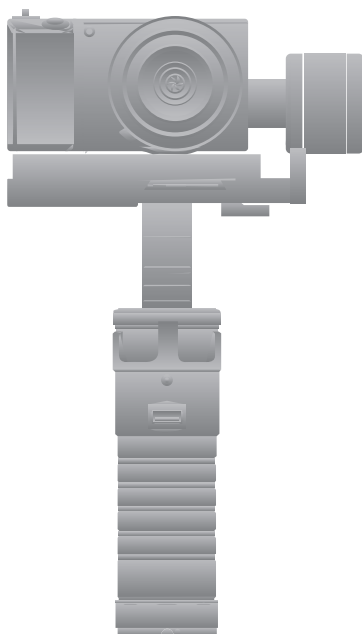
1. Loosen the tension screw at the bottom of the mounting platform, and slide the quick-release plate off of the platform.
2. Attach the quick-release plate to the camera by tightening the mounting screw into the camera's mounting socket. Use a slotted screwdriver or a coin to tighten the mounting screw.
3. Slide the quick-release plate and camera onto the mounting platform, and tighten the tension screw.



Note: Do not completely tighten the tension screw, so adjustments can be made when positioning the quick-release plate in the next step.

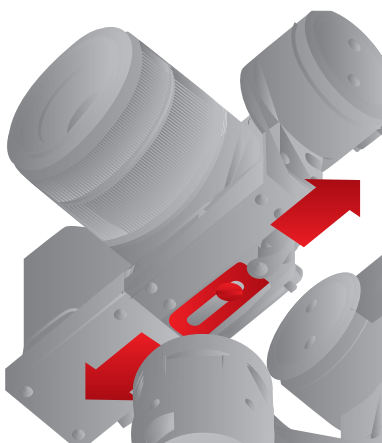
BALANCING THE CAMERA

For optimum performance from your WISP-20M, the camera must be balanced on both axes. To balance the camera, follow these steps:



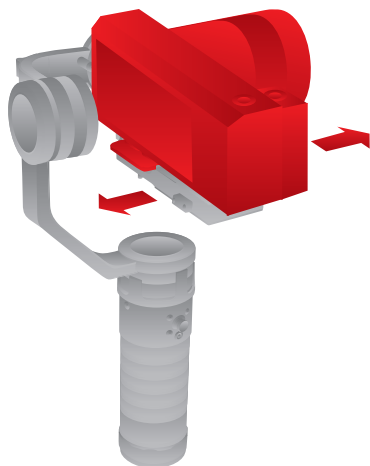
ADJUSTING THE ROLL ANGLE (SIDE TO SIDE)

1. Stand the WISP-20M/camera assembly on a level surface. If the camera tips to one side, the camera needs to be moved in the opposite direction.
2. Insert a screwdriver through the slot in the mounting plate, and use it to slightly loosen the mounting screw. Move the camera toward the side that needs more weight.
3. Tighten the mounting screw.
4. Repeat these steps until the camera is balanced from side to side when resting on the mounting platform.



ADJUSTING THE PITCH ANGLE (FRONT TO BACK)

1. Stand the WISP-20M/camera assembly on a level surface. If the camera is tipping forward or back, adjust the position of the quick-release plate.
2. Slightly loosen the tension screw.
3. If the camera is tipping down, move the quick-release plate back. If the camera is tipping up, move the quick-release plate forward. Move the quick-release plate in small increments until the camera is balanced.
4. Tighten the tension screw until secure.



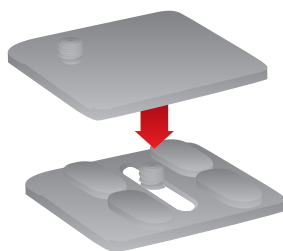
THE CAMERA WON'T FIT OR BALANCE

Some cameras won't fit properly on the WISP due to the position of their mounting sockets. The included adapter plate can remedy this problem. Follow these steps:

1. Loosen the tension screw and remove the quick-release plate.
2. Insert the mounting screw into the adapter plate from underneath.
3. Screw the adapter plate onto the bottom of the quick-release plate. Make sure the holes are along the direction that gives you the best fit.
4. Make sure the adapter plate and quick-release plate are secure. Reseat the quick-release plate with the camera/adapter assembly, and tighten the tension screw.

Note: When attaching the adapter plate, make sure the mounting screw is in the middle of the quick-release plate. This will make it possible to slightly adjust the quick-release plate from side to side.

5. Continue to adjust the position of the camera until it balances on the mounting platform by itself.



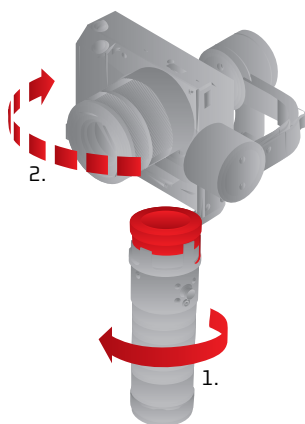
USING THE WISP-20M

For optimum performance, start the WISP-20M only when the camera has been balanced.

Stand the WISP-20M/camera assembly on a level surface, and press the power button. The WISP will begin to calibrate for balance by adjusting the roll and pitch of the camera platform. Wait until the WISP has fully calibrated the balance and comes to a stop before you start to use it.

FOLLOW MODE

The WISP-20M starts up in Follow mode. In Follow mode, the camera will smoothly trail the movement of the handle in whichever direction it is panned or tilted.



LOCK MODE

Lock mode keeps the camera balanced in the position in which it's pointed, regardless of the angle or movement of the handle. Switching to Lock mode from Follow mode allows the user to point the camera in a single direction while still moving.

To enter Lock mode, quickly press and release the control stick once.

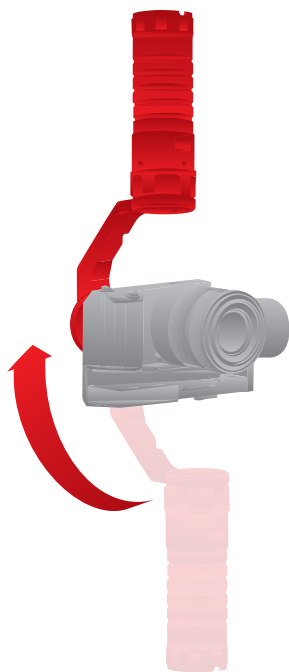
Pressing the control stick again returns the WISP-20M to Follow mode.

LOW-ANGLE SETTING

To use your camera in an inverted position, follow these steps:

1. While the WISP is on, press the reset button twice, and wait for the WISP to beep.
2. After the beep, hold the camera in place, and swivel the handle around the camera until it is pointing up.
3. Let the gimbals stabilize the camera, and then reframe your picture by using the control stick.

Note: To stop using the inverted mode, repeat the previous steps and rotate the handle to underneath the camera.



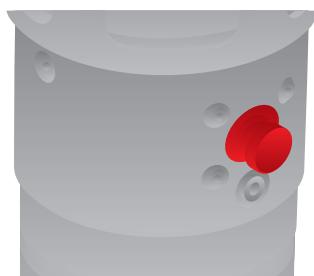
CONTROL STICK

Up-down and side-to-side movement of the camera can be controlled by the control stick in both Follow and Lock modes.

Note: When in inverted mode, the control stick will also be inverted, and the platform will move opposite to the control stick commands.

RECALIBRATING THE GIMBAL

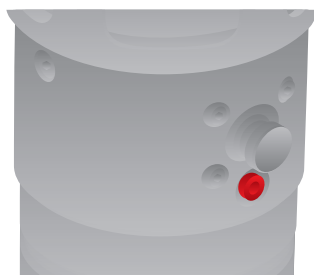
1. Stand the WISP-20M on a flat surface. Press and hold the control stick for 2 seconds to stop the motors.
2. Press and hold the control stick for an additional 2 seconds to complete the recalibration process. After 4 to 5 seconds, the WISP-20M will beep and recalibrate. When it comes to a stop, it is ready to use.



BATTERY STATUS LIGHT

The battery status light is located on the handle, underneath the control stick.

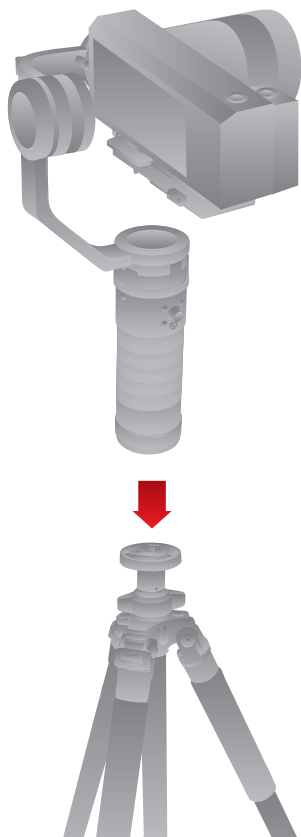
- A green light indicates fully charged batteries and normal operation.
- A red light indicates low batteries.
- A blinking red light indicates that the batteries need to be recharged before further use.



MOUNTING THE WISP-20M

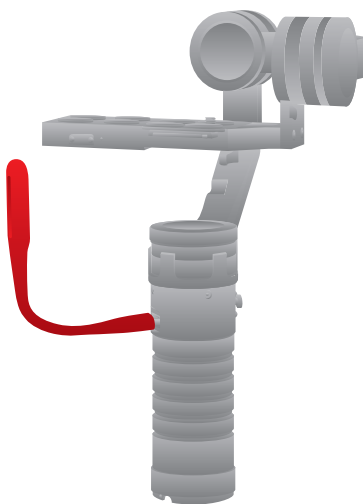
THE WISP-20M can be mounted on a tripod, jib, or other device with a 3/8" threaded mounting post.

1. Screw the handle of the WISP-20M into the tripod or jib's quick-release plate until secure.
2. Attach the WISP to the tripod or jib.
3. Rebalance the camera before turning the WISP's power on.



USING THE LED LIGHT

The included LED light can be used when shooting in dimly lit areas. Plug it into the USB port on the handle, and twist it to the desired position.



SPECIFICATIONS

Dimensions (H × W × D)	10.6" × 6.4" × 5.5" (26.9 × 16.3 × 13.5 cm)
Weight (with batteries)	1.9 lb. (862 g)
Weight without batteries	1.6 lb. (726 g)
Power	3.7 V Li-ion 2600 mAh 18650 battery (×3)
Battery life	3 hr.
Main board	8-bit board 2.40b7: 3-axis stabilizer gyro system
Range of motion	90°–180° Roll: 355° ±60° Pitch: 355° ±180° Yaw: 355°
Maximum supported camera weight	1.9 lb. (850 g)
Supported camera models	• Blackmagic Pocket Cinema Camera • Sony a7 and a7ii series • Panasonic Lumix DMC-GH4 • Most other mirrorless cameras Note: Some lenses will not balance correctly due to length or weight. Please check the weight of the lens and camera together to make sure that it is within the supported weight range.

TROUBLESHOOTING

The batteries are not charging (the indicator light on the battery cradle is not lit when charging).

Make sure that the USB cable is connected to a 1.5–2 A power supply.

Check the connections to make sure that the Micro-USB and USB connectors are completely inserted into the ports on the battery cradle and the power supply.

The camera shakes while shooting.

The gimbals need to be recalibrated. See *Recalibrating the Gimbals* on page 14.

The camera shakes on startup.

Make sure the camera is balanced before turning the WISP's power on. The WISP-20M will not be able to calibrate a balanced position unless the camera is balanced first.

ONE-YEAR LIMITED WARRANTY

This Axler product is warranted to the original purchaser to be free from defects in materials and workmanship under normal consumer use for a period of one (1) year from the original purchase date or thirty (30) days after replacement, whichever occurs later. The warranty provider's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at the provider's discretion, of any product that fails during normal use of this product in its intended manner and in its intended environment. Inoperability of the product or part(s) shall be determined by the warranty provider. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function.

This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, THE WARRANTY PROVIDER MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state.

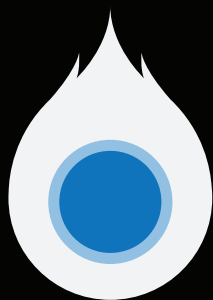
To obtain warranty coverage, contact the Axler Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Axler along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser's own risk and expense.

For more information or to arrange service, visit www.axlersupports.com or call Customer Service at 212-594-2353.

Product warranty is provided by the Gradus Group.
www.gradusgroup.com



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