



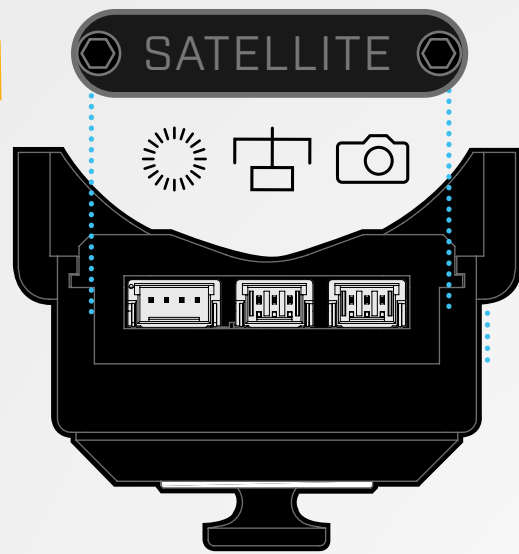
 **SATELLITE**
USER GUIDE

SATELLITE

SATELLITE SETUP	3
GIMBAL SETUP	4
SYSTEM MODE/JOYSTICK CAL	5
DEFAULT FUNCTIONS	6
GIMBAL MODES	7
INVERT DIRECTION	9
ROTATED MODE	10
CAMERA CONTROL	11
TROUBLESHOOTING	12

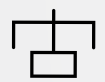
SATELLITE SETUP

PORTS



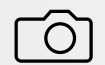
Eclipse Port

Connect Satellite to other Redrock Eclipse products like Orbit and Navigator. Eclipse Cable required.



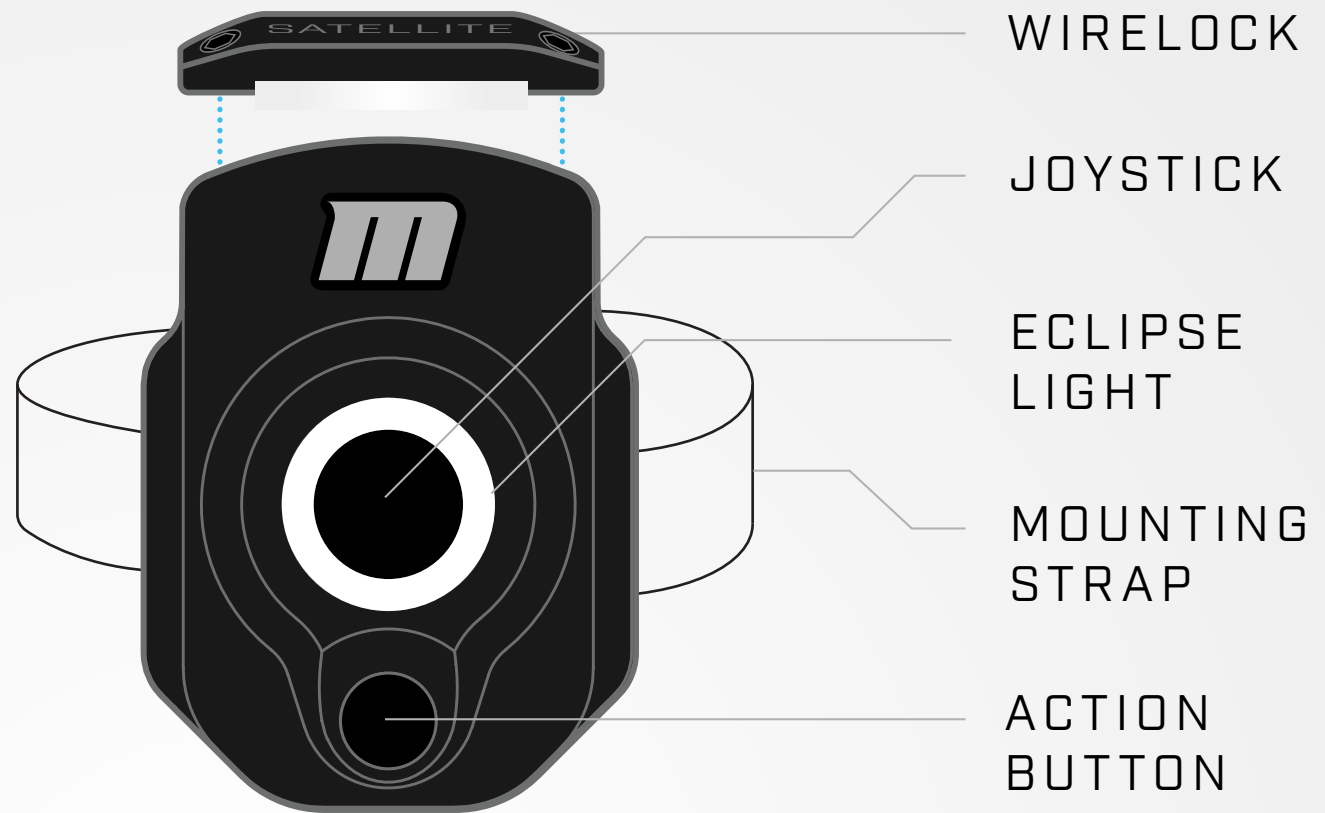
Gimbal Port

Connect Satellite to the S.Bus-compatible port on your gimbal. Cable included with Satellite.

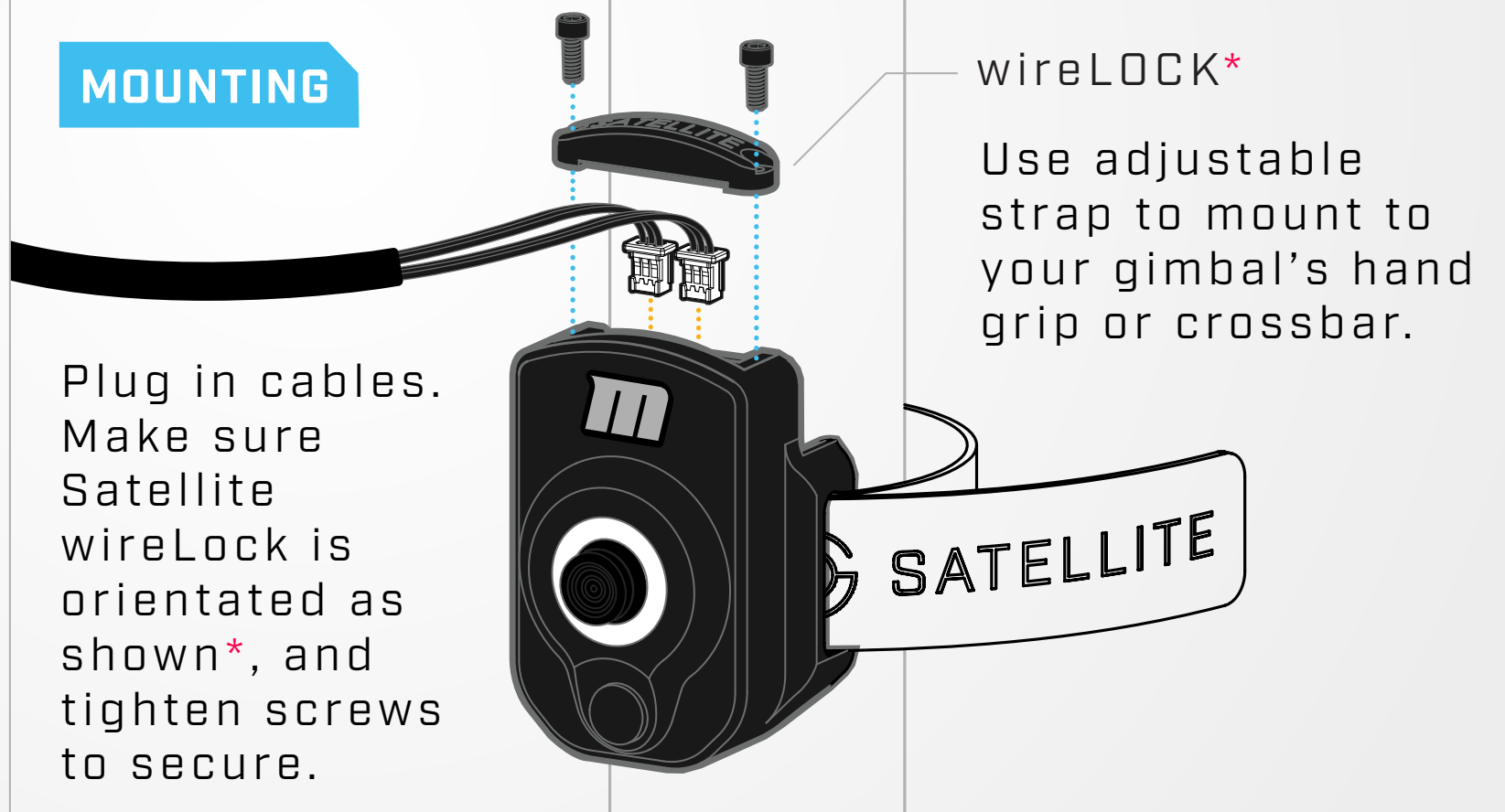


Camera Port

Connect Satellite to camera Run/Stop port. Cable required. More info [Page 11](#)



MOUNTING

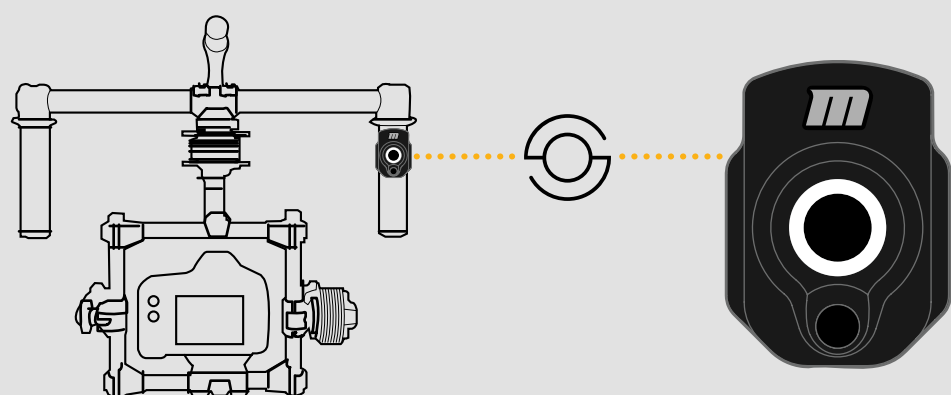


Plug in cables. Make sure Satellite wireLock is orientated as shown*, and tighten screws to secure.

wireLOCK*

Use adjustable strap to mount to your gimbal's hand grip or crossbar.

*If wireLock is used improperly it can cause damage to cables.



For the purposes of this user guide, Satellite is mounted vertically on the grip, facing the operator. Satellite can also be mounted horizontally on cross-bar, see [page 10](#).

GIMBAL SETUP



**No special setup required for Satellite control.
Connect Satellite in one of two ways:**

1. Connect Satellite direct to Comm 1 on the Movi Pro
2. Connect Satellite to Comm 2 on the Freely Mimic



**To setup Satellite control for MoVI you will need to use
the Freely Configurator mobile App or desktop application.**

1. Set Up Radio Type:

Mobile App Setup > Dual Op Screen

Desktop App > Remote Controller Screen

1. Set Radio Type to SBUS

2. Map Channels

Mobile App Setup > Dual Op Screen

Desktop App > Remote Controller Screen

1. Set Map Remote Mode to 7
2. Set Map Remote Pan to 1
3. Set Map Pan Rate to 0
4. Set Map Remote Tilt to 2
5. Set Map Remote Tilt Rate to 0
6. Set Map Remote Roll Trim to 4 or 6. 4 for Roll and return to level, 6 for Roll and Hold.



**To setup Satellite control for Ronin you will need to use
the DJI Assistant mobile App or desktop application.**

1. Map Channels > Channel Screen

1. Set CH 0 to Pan
2. Set CH 1 to Tilt
3. Set CH 3 to Roll

SETTING SYSTEM MODE/ JOYSTICK CALIBRATION

Before use, Satellite must be put in either MoVI Pro Mode
OR regular S.Bus mode (for most gimbals).

- 1** Half-press and hold Action Button while powering up Satellite. When Eclipse Light blinks, release Action Button.



- 2** Press in Joystick to switch modes:
Blue = S.Bus
Green = MoVI API



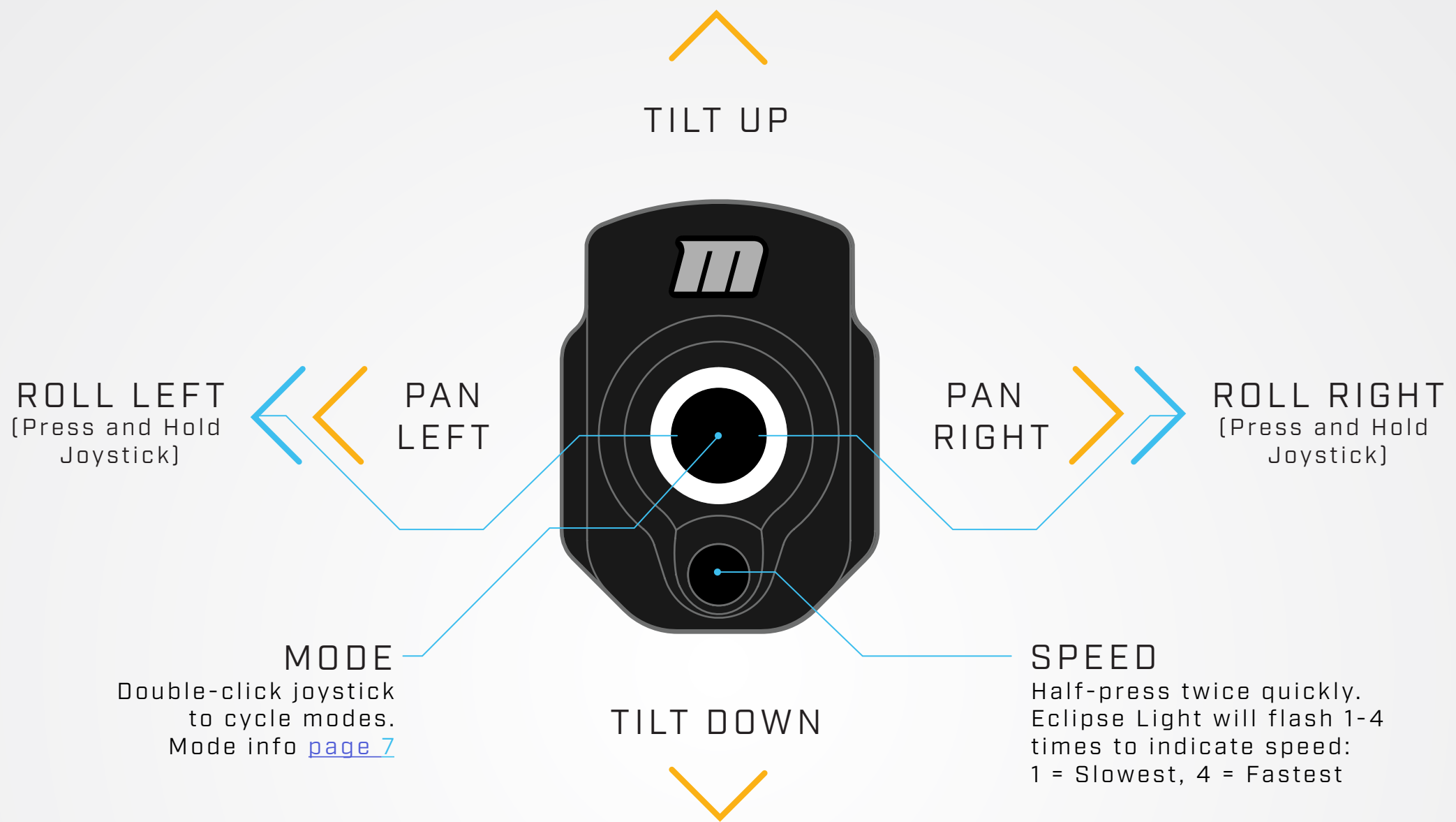
- 3** Press the joystick UP until the stop is reached. Repeat this for all 4 directions.



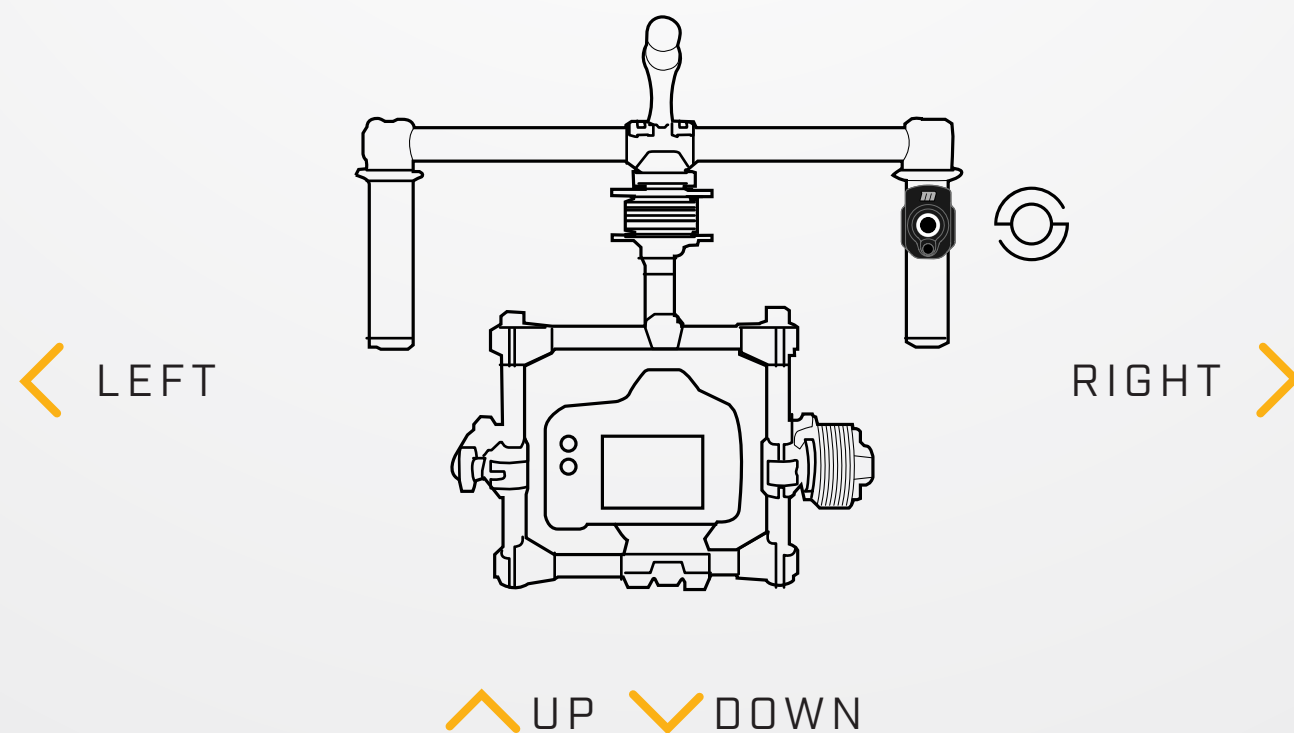
- 4** Fully press ACTION to save and exit. Device will reboot in the new system mode.



DEFAULT GIMBAL FUNCTIONS



GIMBAL (Operator Side)



Satellite orientation can be customized. See [Pages 9, 10](#)

GIMBAL MODES

Satellite is designed so that you can dial in how much control you need in different scenarios. For example, you can use the intuitive panning of Freefly's Majestic Mode and let Satellite handle only tilt. Or you can enter Satellite's full manual mode and have complete axis control at all times. Use Satellite's various gimbal modes in concert with your gimbal's own settings to maximize your gimbal operation.



2X

Double-click joystick to cycle through Satellite's gimbal modes (Green, blue, red, purple, and light blue, described next page.) Eclipse Light will temporarily change color to indicate mode.



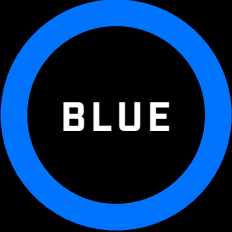






HOLD

Press and hold ACTION button for 5 seconds and release. This engages Maintenance or 'Kill' Mode (yellow.) Repeat this action to exit Maintenance Mode.

SEE CHART NEXT PAGE FOR GIMBAL MODE SPECIFICS

GIMBAL MODES Continued

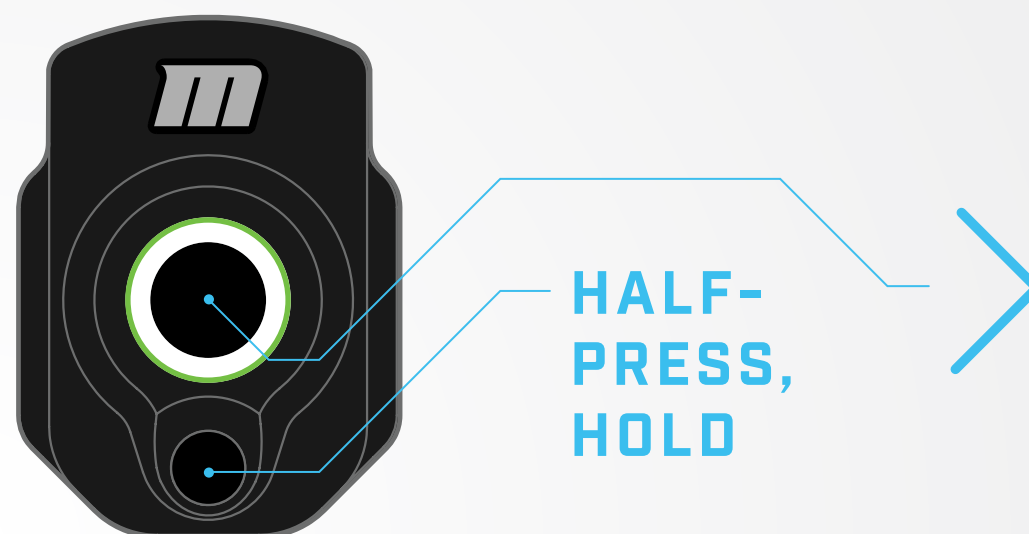
	māVI	MōV_{PRO}	R O N I N	 ECLIPSE
 GREEN	Manual mode: Satellite has full control over gimbal Pan/Tilt/Roll.	Manual mode: Satellite has full control over gimbal Pan/Tilt/Roll.	Manual mode: Satellite has full control over gimbal Pan/Tilt/Roll.	N/A
 BLUE	Majestic mode: Gimbal handlebars control pan. Satellite controls tilt.	Majestic mode: Gimbal handlebars control pan. Satellite controls tilt.	Smooth Pan mode: Gimbal handlebars control pan. Satellite controls tilt.	N/A
 RED	Kill Mode: Turns off motor function without powering down the gimbal.	Kill Mode: Turns off motor function without powering down the gimbal.	N/A. (See 'yellow' mode)	N/A
 PURPLE	N/A	N/A	N/A	Accessory Mode: Use Eclipse cable to connect to any Eclipse product. Satellite acts as an external controller.
 LITE BLUE	N/A	'Super Majestic' mode: Gimbal handlebars control pan and tilt. Satellite controls roll only.	N/A	N/A
 YELLOW	Kill Mode: Turns off motor function without powering down the gimbal.	Kill Mode: Turns off motor function without powering down the gimbal.	Kill Mode: Turns off motor function without powering down the gimbal.***	N/A

*** KILL MODE FOR RONIN ONLY WORKS IF THE RONIN REMOTE HAS BEEN TURNED ON AND CONNECTED. THE REMOTE CAN BE TURNED OFF AFTERWARDS AND KILL MODE WILL STILL WORK. IF THE RONIN IS REBOOTED, THE REMOTE WILL HAVE TO BE POWERED ON ONCE AGAIN.

INVERT DIRECTION

INVERT PAN DIRECTION

Half-press and hold the Action Button. Push joystick right. LED will blink green to indicate pan direction is inverted. To revert to Standard Pan, repeat this action.



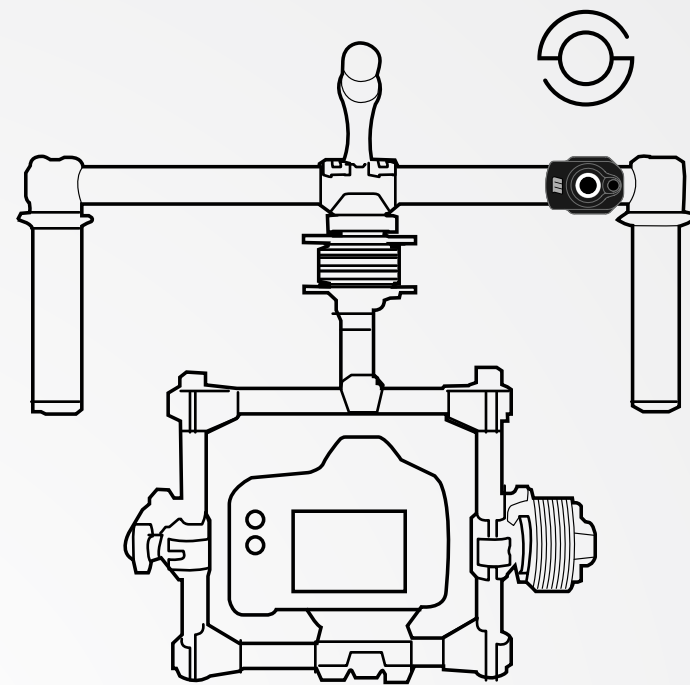
INVERT TILT DIRECTION

Half-press and hold the Action Button. Push joystick up. LED will blink blue to indicate tilt direction is inverted. To revert to Standard Tilt, repeat this action.



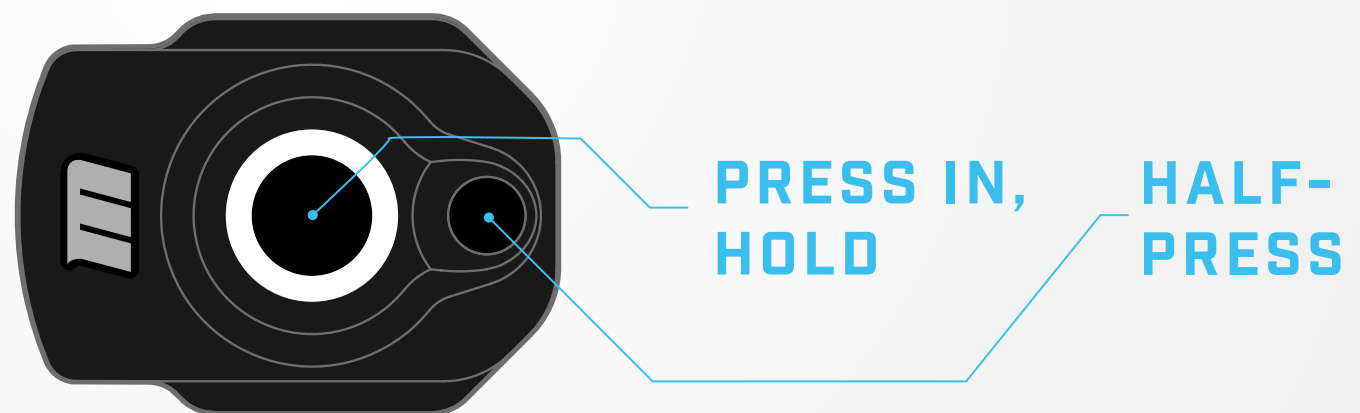
ROTATED MODE

Satellite can be rotated 90 degrees and mounted anywhere on your gimbal. If you choose this orientation, Satellite can be placed in Rotated Mode to maintain standard usability (i.e., up is up, etc.).



ROTATED MODE

Press in joystick and hold. Half-press run/stop. LED will blink white to indicate Rotated Mode is engaged. To exit Rotated Mode, repeat this action.



Once Rotated Mode is engaged, Pan and Tilt can be inverted as described on [Page 9](#)

CAMERA CONTROL

To start camera, plug in compatible cable and fully press Action Button. To stop, press Action Button again. You do not need to hold down Action Button for Recording.

Camera control includes but is not limited to Run/Stop. Camera control can be achieved for the cameras in the chart below. For latest information, please visit: shop.redrockmicro.com/satellite



**FULL
PRESS**

LANC	Canon Cinema EOS, Sony FS5, Panasonic, Blackmagic, Any other standard LANC supported cameras. LANC cable for Satellite SKU: 2-100-3121
RED	Direct Epic/Scarlet. Red Epic/Scarlet Run/Stop for Satellite SKU: 2-100-3123
RED	Breakout adapter for Red/Scarlet. Red Epic/Scarlet Breakout Run/Stop for Satellite SKU: 2-100-3124
SONY	Multi-port Cameras. A7S, A7R. Multi-port Run/Stop for Satellite SKU: 2-100-3122
CANON DSLR	Canon DSLR Run/Stop for Satellite SKU: 2-100-3120
ARRI	Arri Run/Stop for Satellite SKU: 2-100-3125

TROUBLESHOOTING

PANNING WHILE TILTING/TILTING WHILE PANNING

Most gimbals have a deadband setting. MoVI calls it “Joystick Window,” Ronin calls it “Deadband.” If you find that when panning you get some tilt, use the gimbal configuration application to adjust the Pan Window/Deadband to a higher number. Do the same for Tilt.

GIMBAL MOVES WITHOUT TOUCHING THE SATELLITE

1. Calibrate gimbal per the manufacturer instructions.
2. Reboot gimbal
3. Calibrate Satellite (Instructions below)

SATELLITE NOT PERFORMING PROPERLY

Reset to Factory Defaults by calibrating Satellite (Instructions below)

CALIBRATE SATELLITE

1. Turn on gimbal or plug in/unplug Satellite. When Eclipse turns green, half-press and hold Action Button. When Eclipse Light turns blue, release Action Button.
2. When Eclipse Light is solid green, rotate the joystick clockwise for a full 360 degrees. Half-press Action Button.
3. When Eclipse Light turns solid white, Satellite is calibrated and ready for use.

