SATELLITE

USER GUIDE

redrockmicro

SATELLITE

SATELLITE SETUP

JOYSTICK

ECLIPSE LIGHT

MOUNTING STRAP

ACTION BUTTON
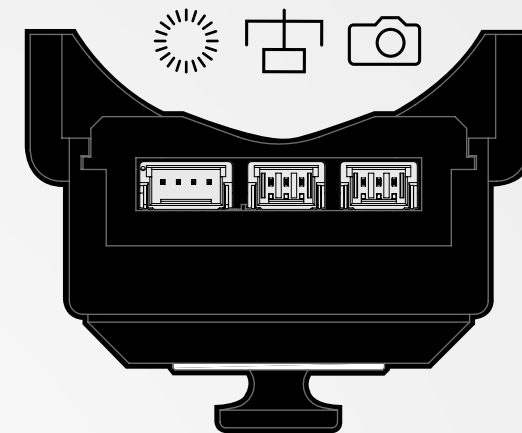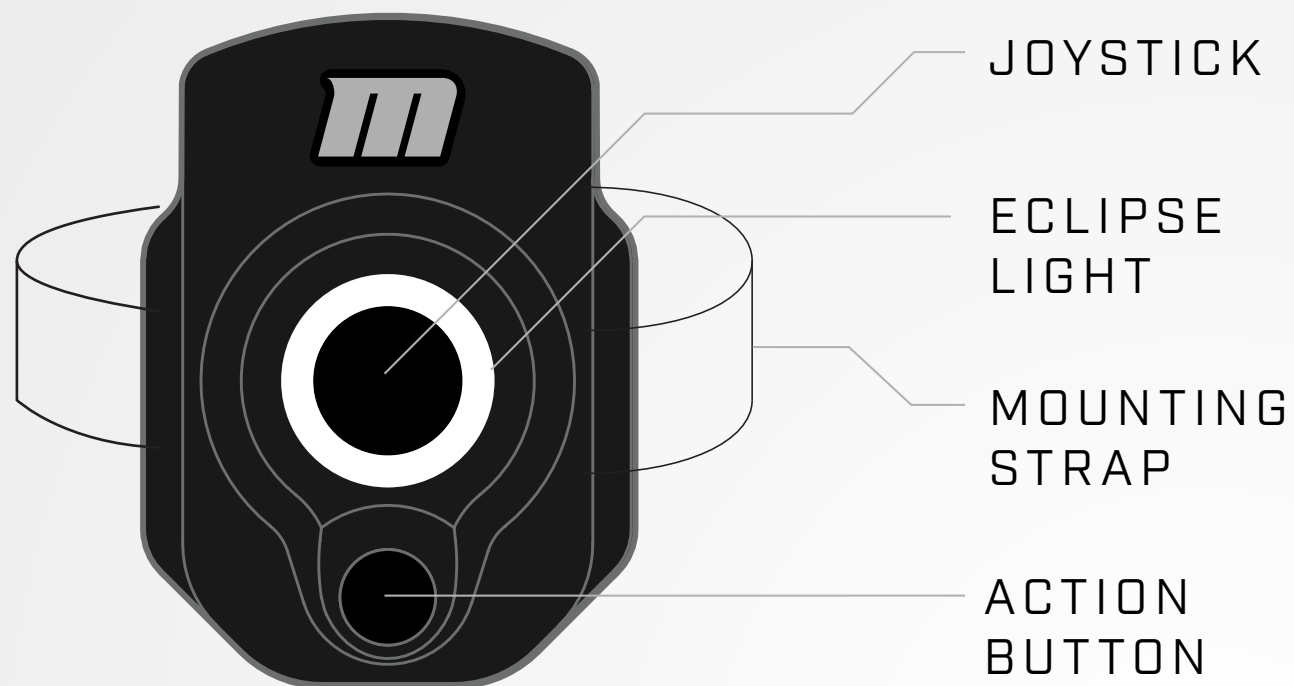
Eclipse Port
Connect Satellite to other Redrock Eclipse products like Orbit and Navigator. Eclipse Cable required.
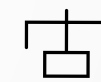
Gimbal Port
Connect Satellite to the S.Bus-compatible port on your gimbal. Cable included with Satellite.

Camera Port
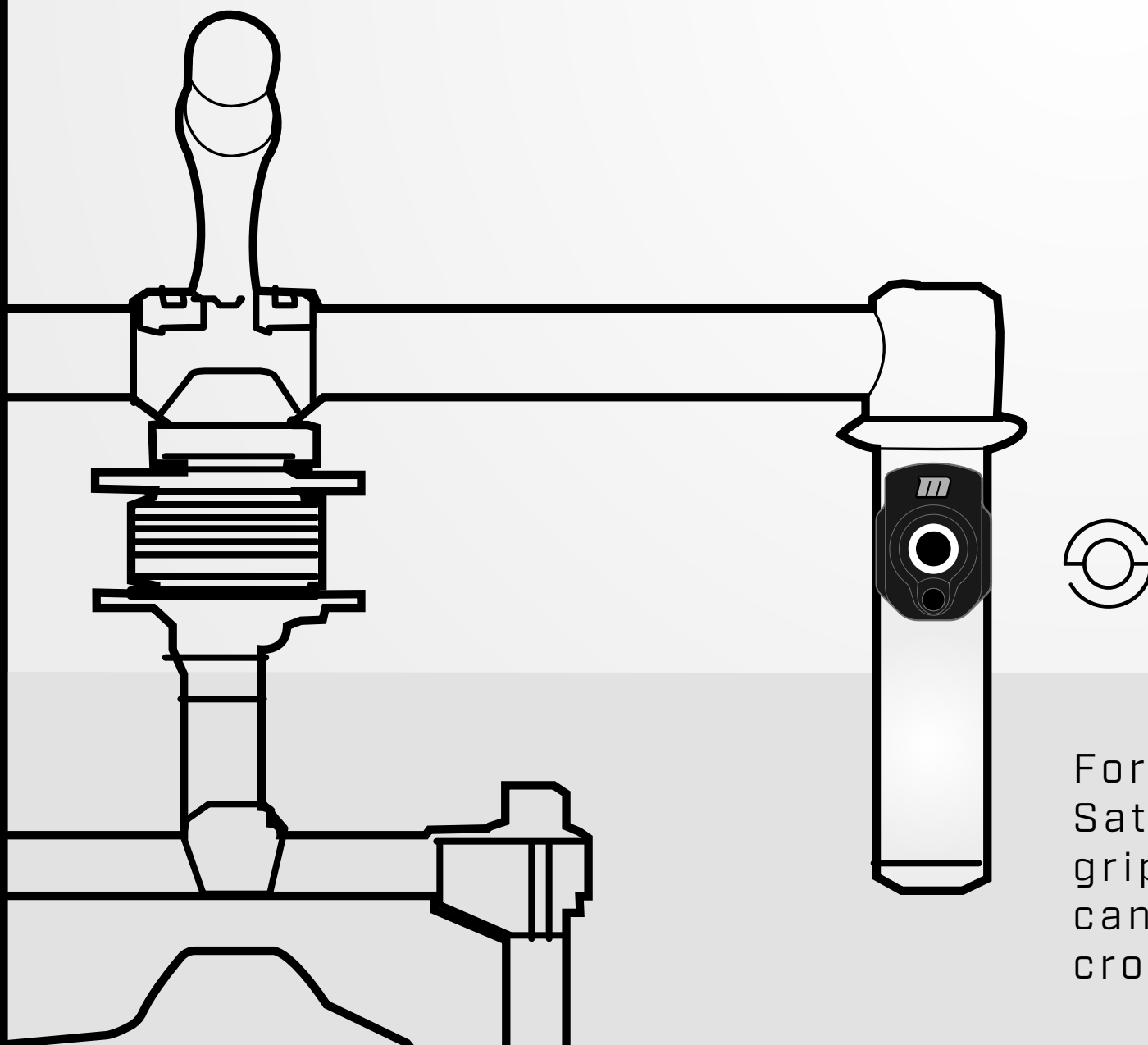Connect Satellite to camera Run/Stop port. Cable required. More info

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 .

GIMBAL SETUP

MƏVI

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

1. Set Up Radio Type:

   Mobile App Setup > Dual Op Screen
   Desktop App > Remote Controller Screen

   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.
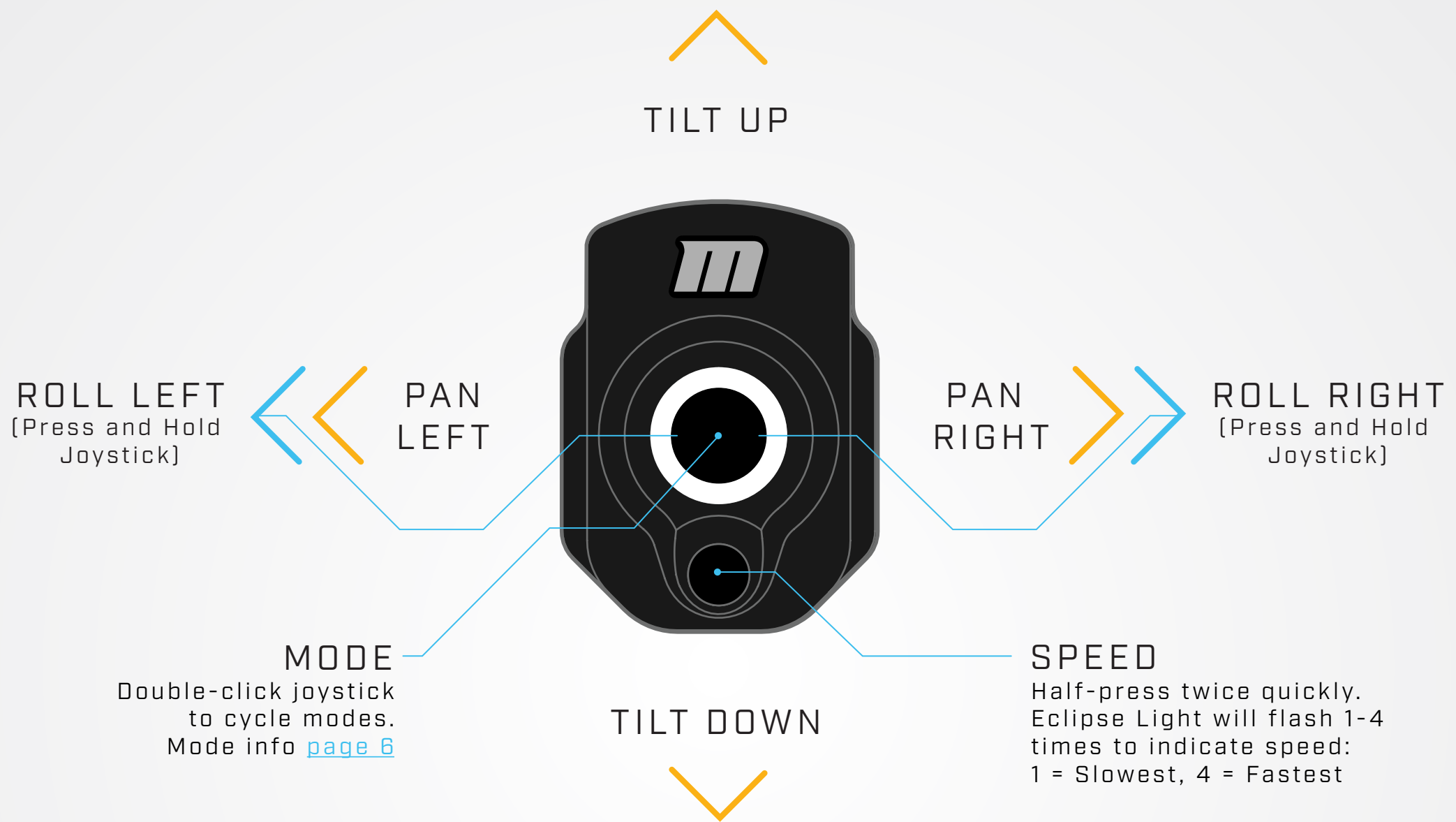
RONIN

To setup Satellite control for Ronin you will need to use the DJI Assistant mobile App or desktop application.
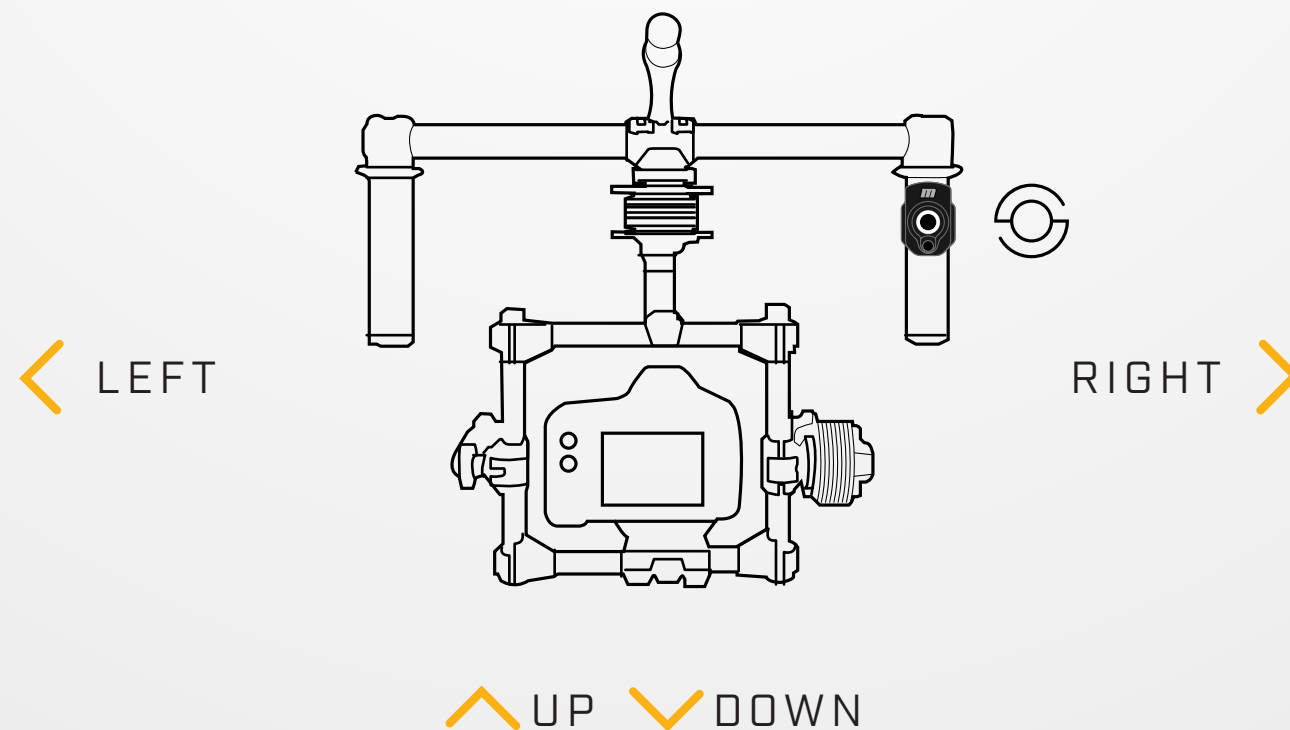
1. Map Channels > Channel Screen

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

DEFAULT GIMBAL FUNCTIONS

TILT UP

ROLL LEFT
[Press and Hold Joystick]

PAN LEFT

PAN RIGHT

ROLL RIGHT
[Press and Hold Joystick]

MODE
Double-click joystick to cycle modes. Mode info page 6

SPEED
Half-press twice quickly. Eclipse Light will flash 1-4 times to indicate speed: 1 = Slowest, 4 = Fastest

TILT DOWN

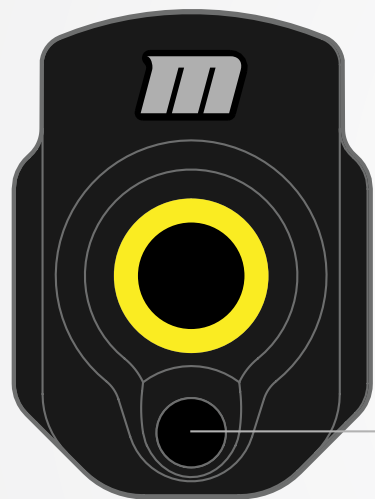GIMBAL (Operator Side)

LEFT

RIGHT

Satellite orientation can be customized. See Pages 7, 8

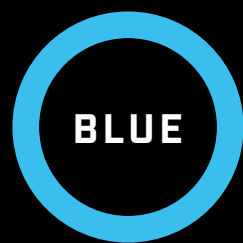UP DOWN

GIMBAL MODES

2X

Double-click joystick to cycle through Satellite's 3 main gimbal modes (Blue, Green, and Red, described below.) Eclipse Light will temporarily change color to indicate mode. Mode functions may vary by manufacturer, see chart below.

HOLD

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

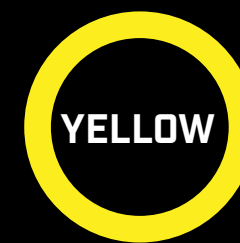| GIMBAL MODES [for common manufacturers]	BLUE	GREEN	RED	YELLOW
MōVI	'Majestic' mode; pan is controlled by gimbal handlebars. Satellite controls tilt.	Satellite has full control over gimbal Pan/Tilt/Roll.	Turns off motor function without powering down the gimbal.	Turns off motor function without powering down the gimbal.
RONIN	'Smooth Pan' mode; pan is controlled by gimbal handlebars. Satellite controls tilt.	Satellite has full control over gimbal Pan/Tilt/Roll.	Satellite has full control until released, then pan returns to center.	Turns off motor function without powering down the gimbal.

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.
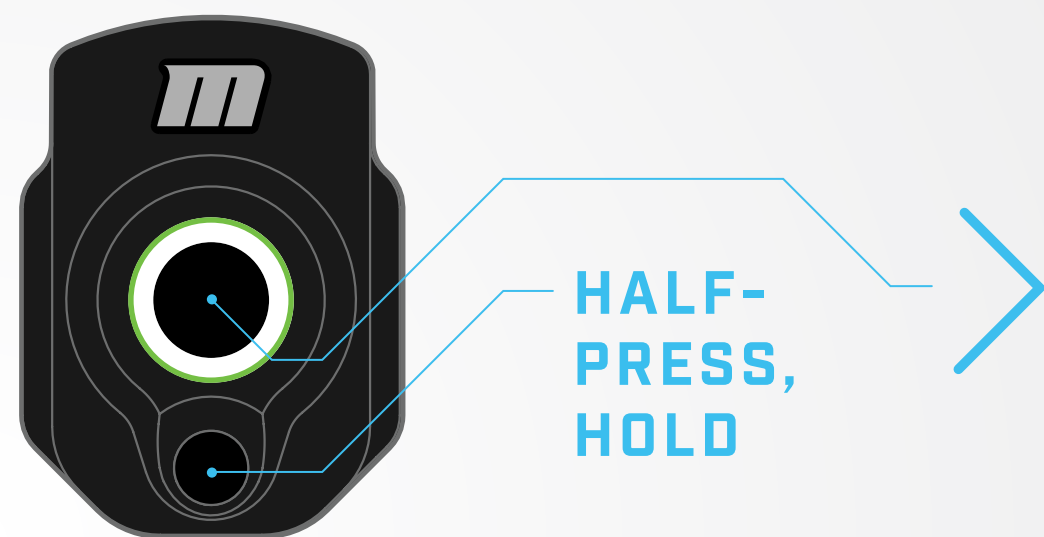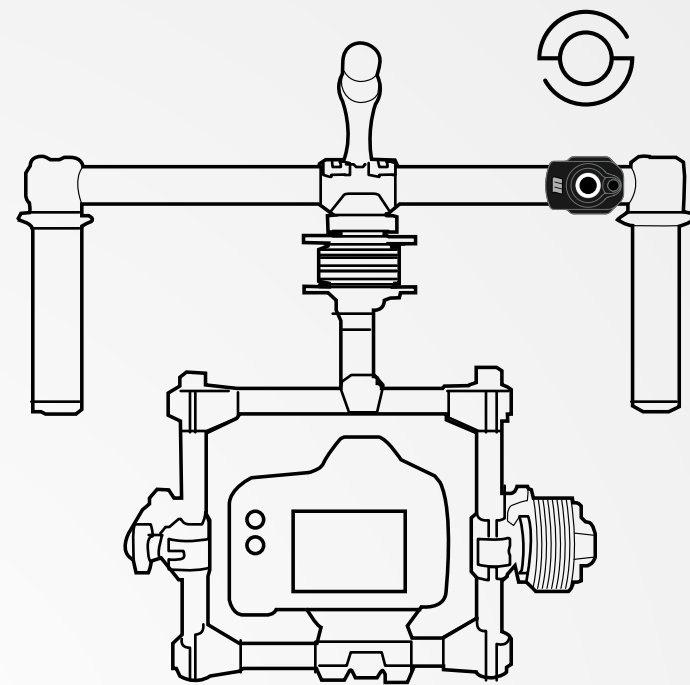
HALF-PRESS, HOLD

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.

HALF-PRESS, HOLD
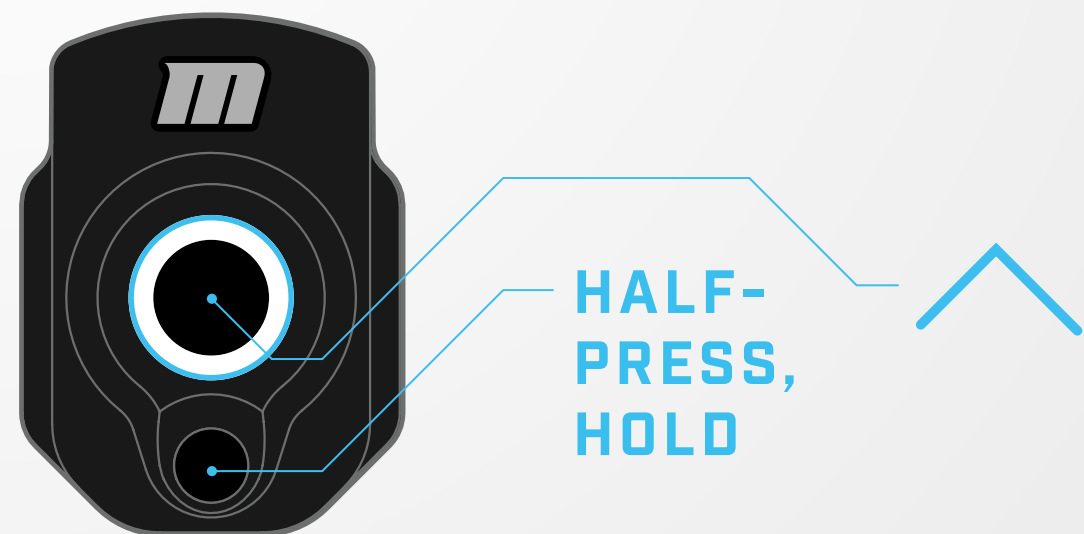
ROTATED MODE

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.

PRESS IN, HOLD

HALF-PRESS
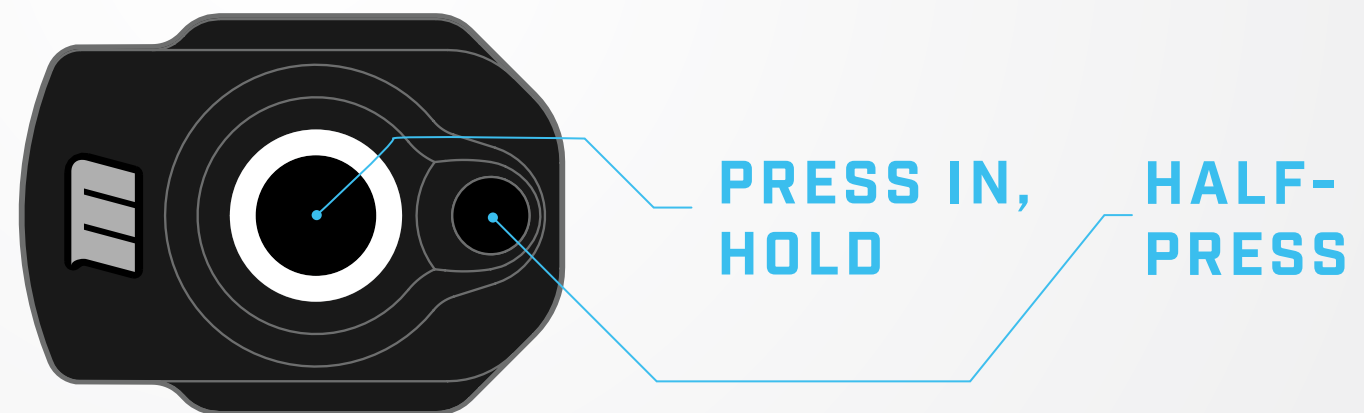
Once Rotated Mode is engaged, Pan and Tilt can be inverted as described on Page 7

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. Half-press and hold Action Button while powering up Satellite. 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.

1 HALF-PRESS, HOLD. POWER ON — RELEASE

2 ROTATE JOYSTICK 360° — HALF-PRESS