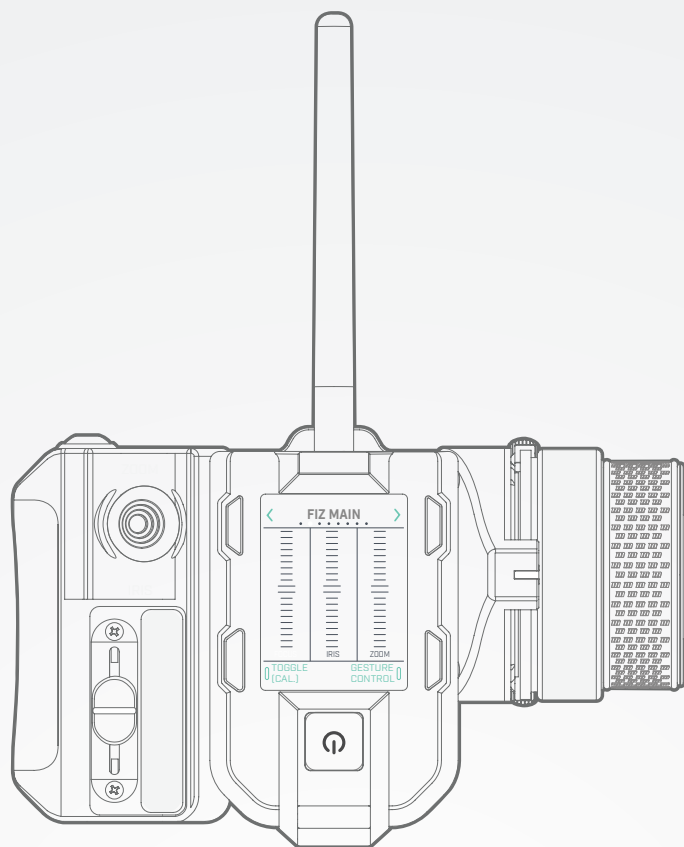


COMMANDER™

for FREEFLY MoVI Pro / XL

USER GUIDE





COMMANDER™

for FREEFLY MoVI Pro / XL

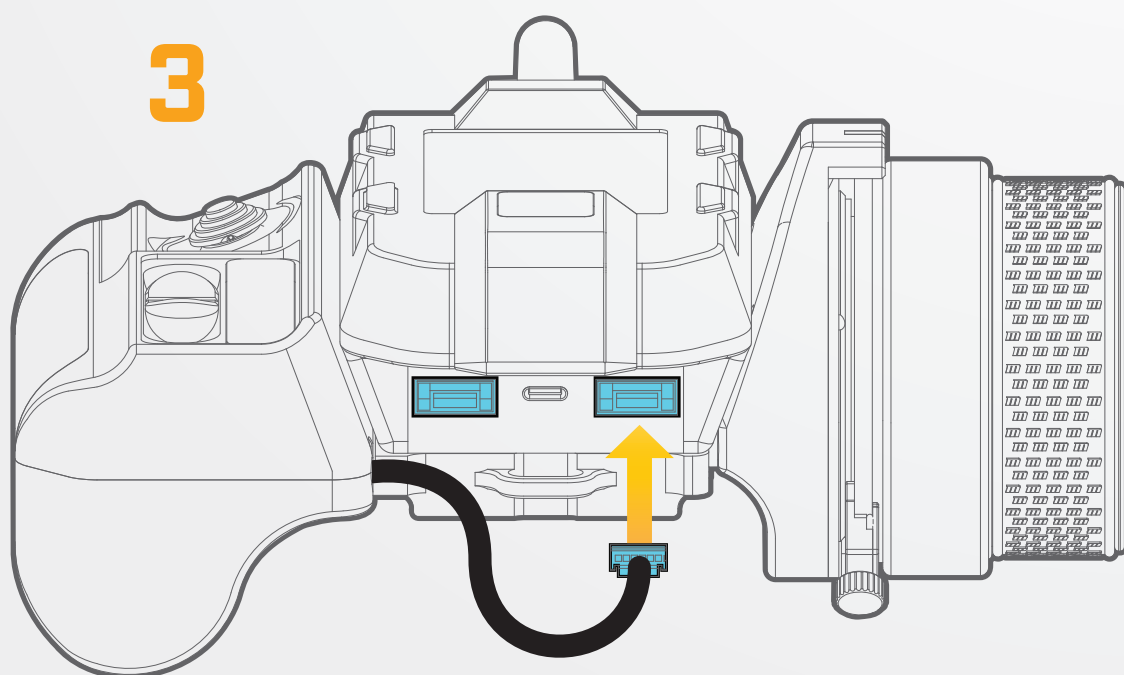
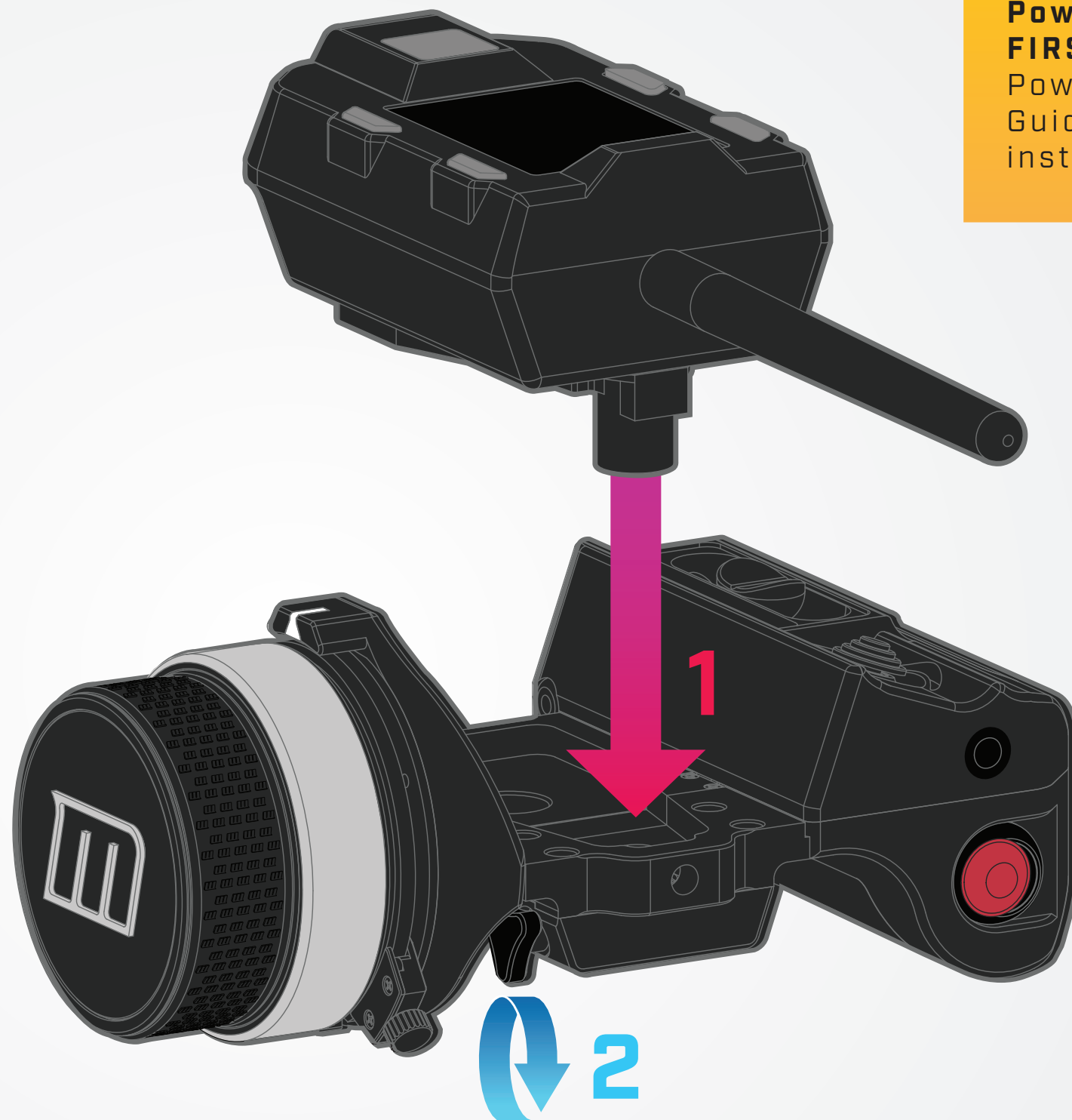
SETUP	3
CONTROLS	4
ADVANCED FOCUS	5
INDICATORS	6
GIMBAL MODE	7
DUAL OPERATION	8



If you intend to use OPTIONAL PowerDock to provide external power to MIMIC, **install the PowerDock FIRST**. See PowerDock User Guide for instructions.

SETUP

1. Insert Freely MIMIC into the Commander's 'cradle.'
2. Secure MIMIC's 15 mm post by tightening triangular locking screw.
3. Connect the 6 pin JST-GH connector from Commander to either **COM 1 or COM 2** of the MIMIC. (Some Freely applications use a specific port for their use.)
4. Using the MIMIC buttons, scroll to the FIZ screen. The Commander now controls MoVI FIZ operation.



NOTE:
Commander draws power from MIMIC. Power up MIMIC before attempting to use Commander.

CONTROLS



IMPORTANT:

The zoom controller automatically calculates its zero position EACH power up. This is to always ensure a full range of motion. **DO NOT TOUCH** joystick while Commander is powering up.

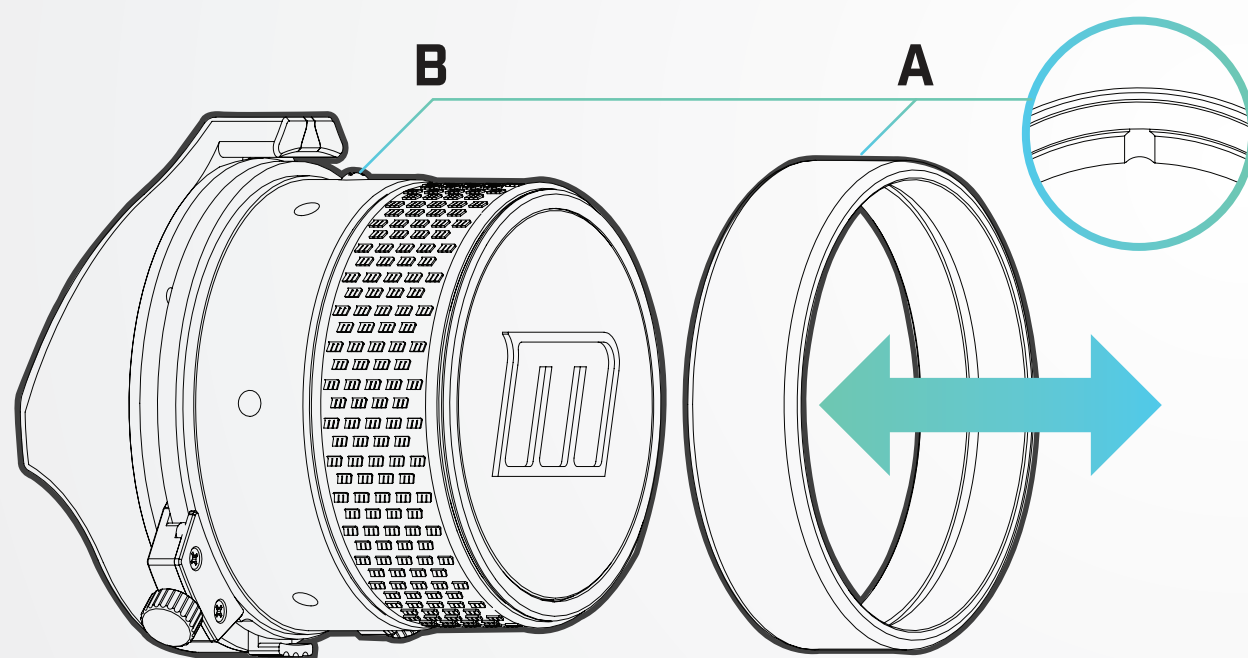
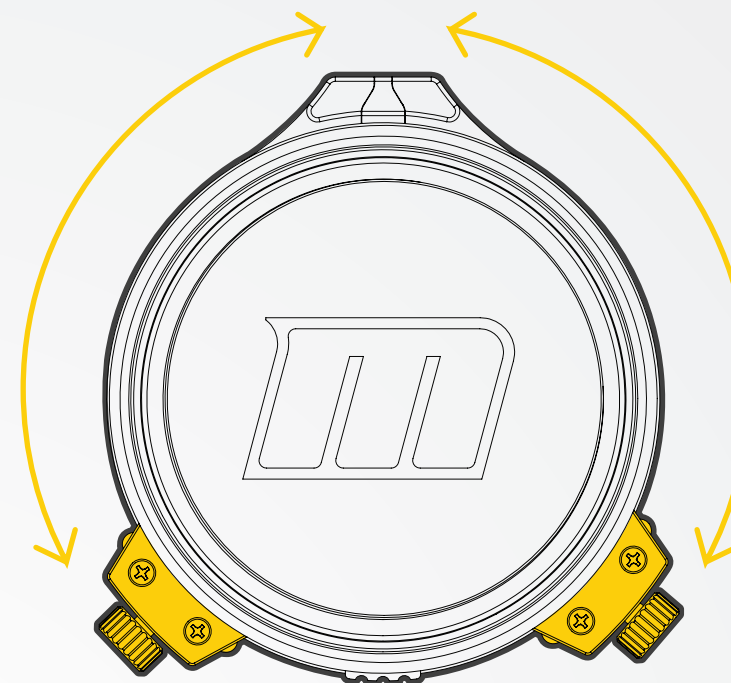
* **RUN/STOP** works for supported cameras only. Reference Freely Documentation.

ADVANCED FOCUS CONTROL

ADJUSTABLE HARD STOPS

Rather than relying solely on marks on the marking disk, the adjustable hard stops can help you achieve greater accuracy and repeatable focus.

Loosen the hard stop thumb screw. Slide to desired position. Tighten thumb screw.



REMOVABLE MARKING DISC

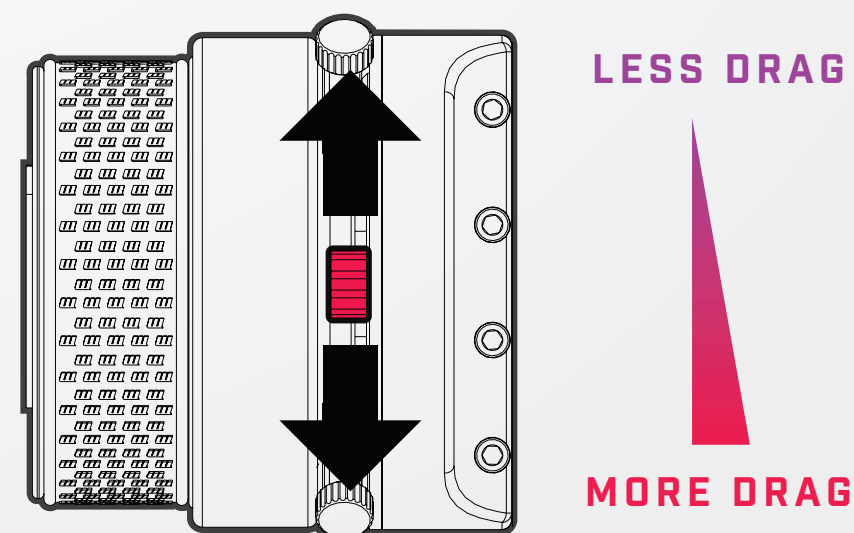
Map out all your lenses in advance on their own individual marking discs for fast, accurate lens changes.

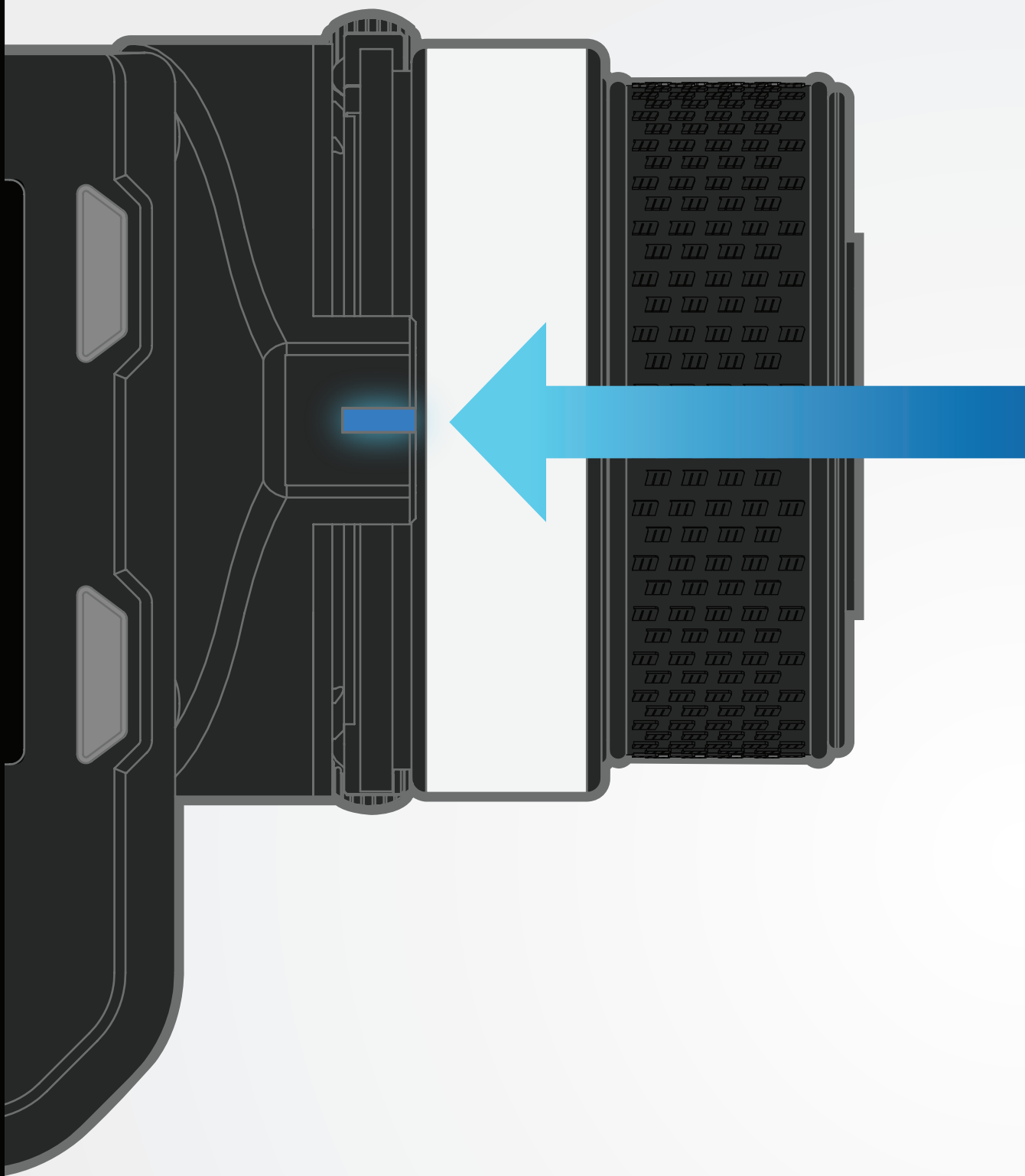
To remove from the Commander, pull the disc straight off. To install, line up the notch in the disc [A] with the notch on the Commander [B] and push in firmly.

ADJUSTABLE WHEEL DRAG

Fine tune the feel of the Commander's focus wheel to your exact preference or to the requirement of each specific shot.

Move the adjuster up for less drag and a looser, quicker feel. Move the adjuster down for more drag and a tighter, slower feel.





INDICATORS

The Commander's Focus Indicator color designates its mode of operation.

Continue reading this User Guide for more detailed information about each mode.



WHITE

Normal FIZ operation. All control inputs are used to control the lens motors. Default mode.



BLUE

Gimbal mode. The joystick controls gimbal pan/tilt/roll, not the Zoom motor.



CYAN

Ultra Mode. Commander joystick is disabled, Navigator controls Zoom/Gimbal movement.



RED

Camera is recording. Follow the MoVI Pro User Guide for enabling Run/Stop.

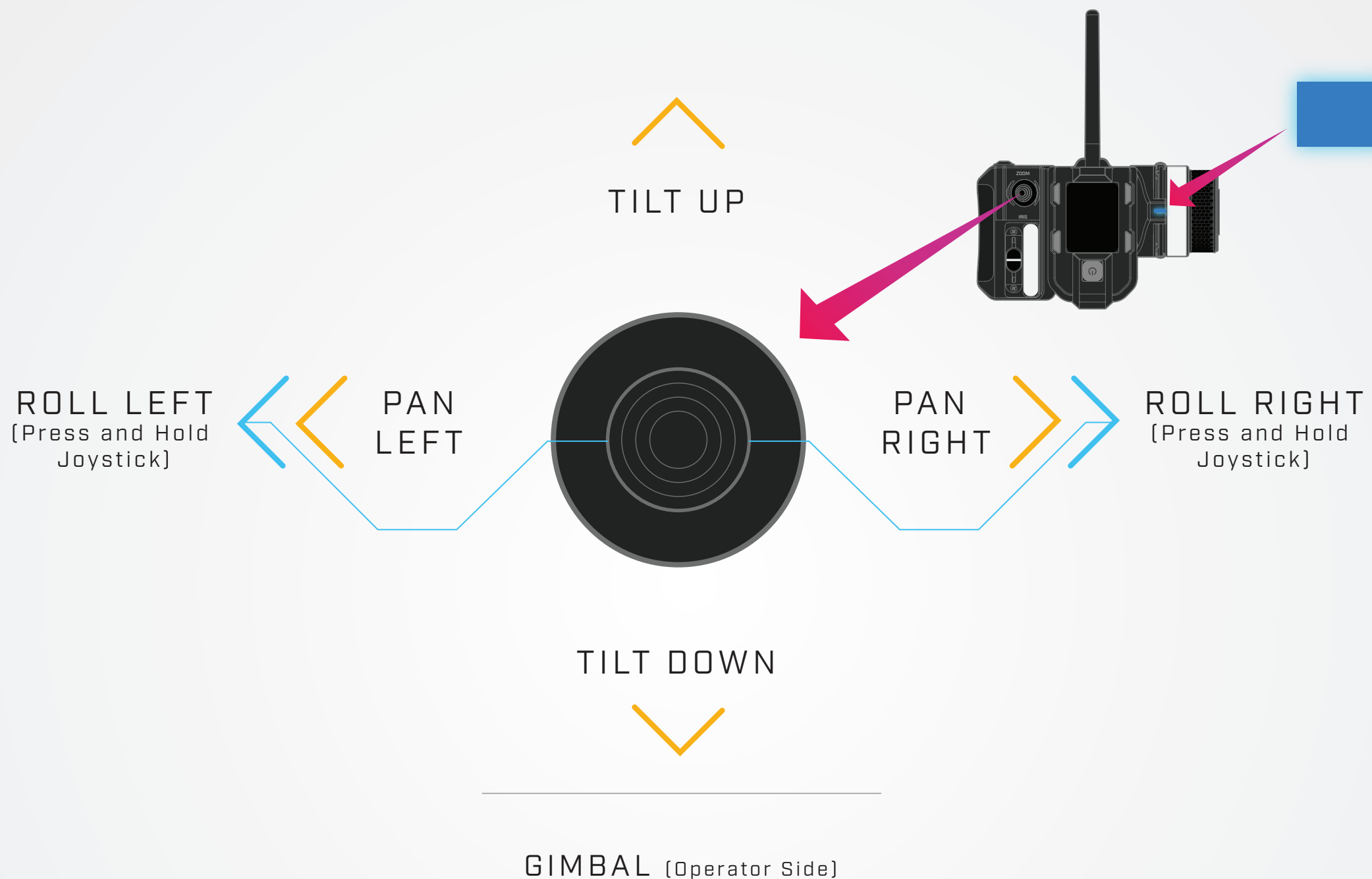


YELLOW

Calibration mode.

GIMBAL MODE

Double click the joystick to enter gimbal mode from default white mode. The Indicator will turn blue.



INVERT AXES

Use the Mimic controls to invert the pan or tilt direction [Up is down, left is right, etc.] Follow Freely Mimic User Guide.

EXIT GIMBAL MODE

Double click the joystick to cycle through modes.

DUAL OPERATION

Adding a Navigator adds a whole range of Dual-op possibilities.

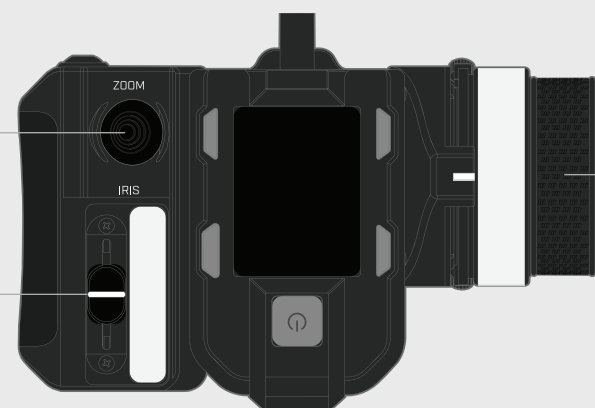
Mount Navigator to the MoVI Pro, connect to Comm 1/Comm2, and set it to MoVI Pro Mode [See ***Navigator for MoVI Pro User Guide***.] Commander defers control to the Navigator differently depending on which mode the Commander is in [shown below.] Toggle Commander modes by double clicking the joystick.



WHITE
(DEFAULT)

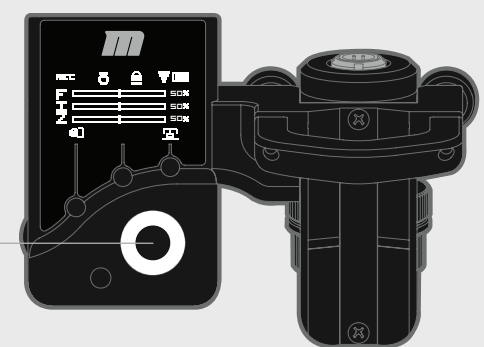
ZOOM

IRIS



FOCUS

PAN/
TILT/
ROLL



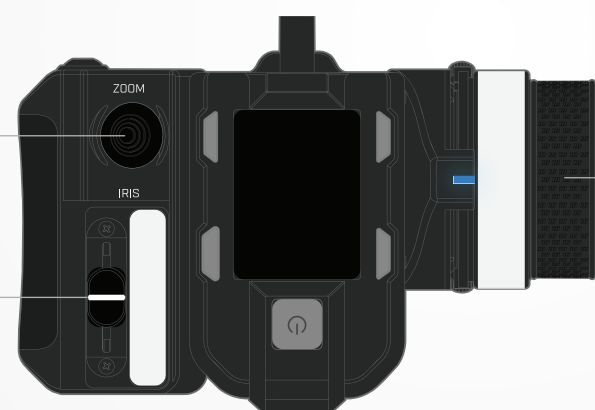
*Navigator is in Gimbal Mode 



BLUE
GIMBAL MODE

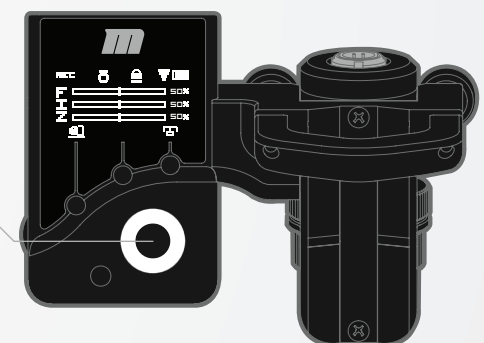
PAN/
TILT/
ROLL


IRIS



FOCUS

ZOOM

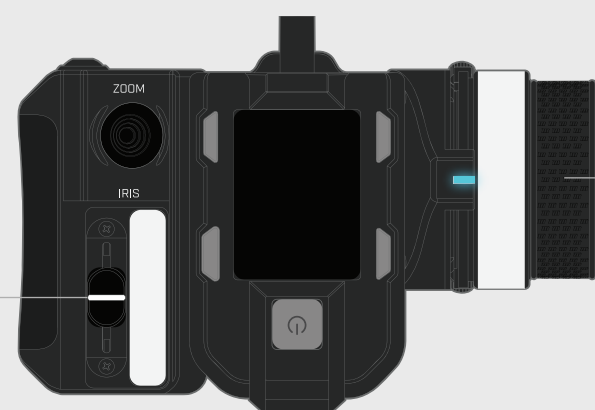


*Navigator is in Lens Mode 



CYAN
ULTRA MODE

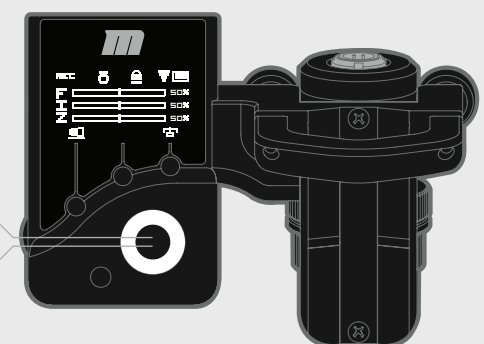
IRIS





FOCUS

PAN/
TILT/
ROLL

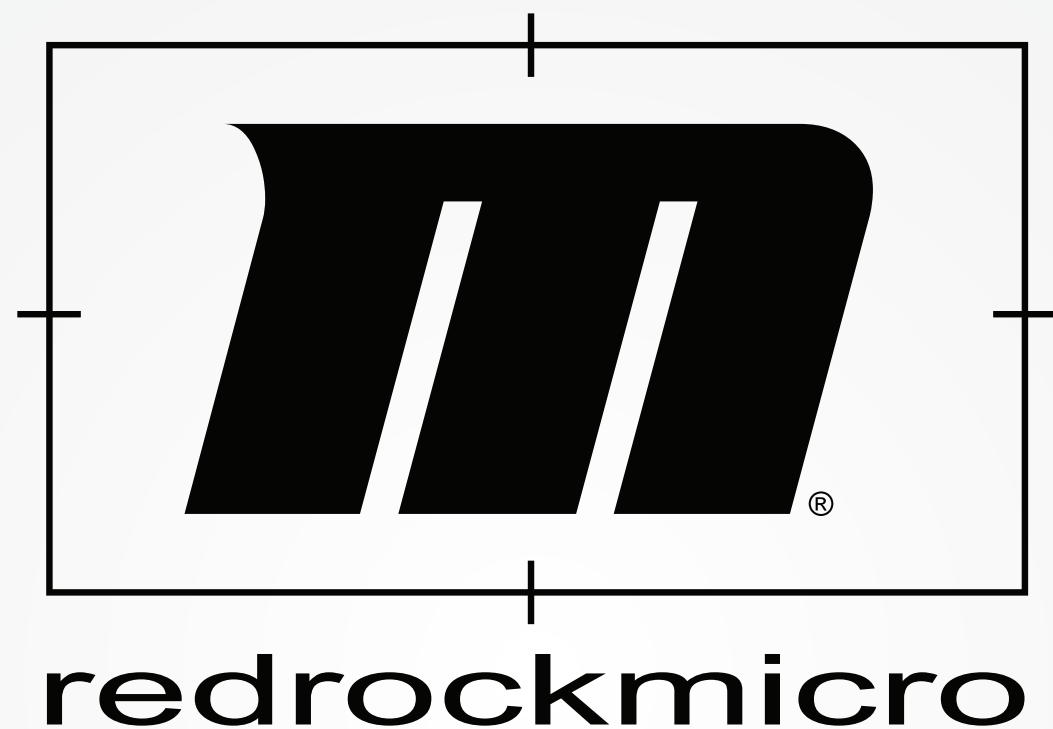
ZOOM



*Toggle between Lens & Gimbal Modes  

NOTE:

The controls are set as shown when the motors are plugged into their correct ports [focus motor into focus port, etc.] You can reassign controllers by plugging motors into different ports. For example, to control Iris with the Navigator joystick, plug the iris motor into the Zoom port on the MoVI.



Redrock Micro provides a one year limited warranty for Redrock products that contain electronic components. This limited hardware warranty covers defects in workmanship and materials of our products for up to one year, and does not cover damage to this product that results from improper installation, accidents, abuse, misuse, negligence, natural disaster, insufficient or excessive electrical supply (if applies), damage from incorrect cabling, abnormal mechanical or environmental conditions, dust or any unauthorized disassembly, repair or modification.

The COMMANDER complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (I.) this device may not cause harmful interference and (II.) this device must accept any interference received, including interference that may cause undesired operation.

Minimum Voltage 12VDC, 3A
Maximum Voltage 18VDC, 3A

