ATLAS

USER GUIDE

ATLAS

OVERVIEW

CABLE PORTS

Both cable ports are **Eclipse Ports**. They are universal: each port is an input and an output.

Cable ports swivel 90 degrees for maximum mounting flexibility.

QUICK-RELEASE MOUNTING BLOCK

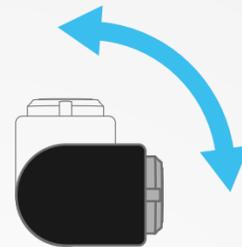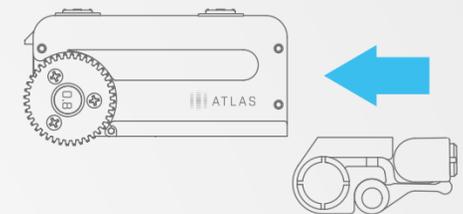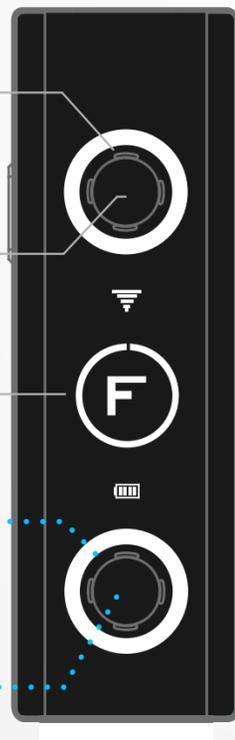Sliding design allows you to remove Atlas from your rig while leaving everything in tact.

The two joysticks are linked, their function is identical. This provides maximum functionality in all mounting scenarios.

ECLIPSE LIGHT
Indicates Atlas status and operation

JOYSTICK

OLED DISPLAY

ATLAS

F

0.8

ADJUSTABLE LEVER
Can accommodate out-of-spec rods. Tighten screw for desired hold.

15/19mm ROD CLAMP

0.8 PITCH DRIVE GEAR

LENS LIGHT
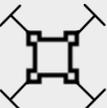
WHAT IS A SMART MOTOR?

Unlike traditional systems, Atlas does not require a separate brain or MDR. The entire system is built into the motor housing.

## PLEASE READ ENTIRE USER GUIDE BEFORE FIRST CALIBRATION

3

SETUP MENU

Press joystick right or left to enter the Setup Menu. To exit, navigate to the Exit screen.

|		
	CALIBRATE	Choose between Auto and Manual Lens Calibration. More info page 7.
	MODE	Set Atlas to the mode it is to perform: Focus, Iris, or Zoom. Set the mode first, BEFORE lens calibration. The letter indicating your current mode, F,I, or Z, appears on the home screen. Default Mode is Focus.
	TORQUE	Set your desired torque (gain) level. 0 is the lowest, 10 is the highest. Set the gain higher for stiffer lenses, lower for smoother action. Default Torque setting is 5.
	DIRECTION	Change the direction of motor operation, Forward or Reverse. Default setting is Forward.
	FLIP DISP	Flip Atlas display 180 degrees. This allows you to mount Atlas to the top or bottom rails of your rig. Default orientation is Up.
	LED LITES	Set the brightness of the Eclipse lights. 0 is off, 10 is the brightest. Default brightness is 5.
	LENS LITE	Set the brightness of the Lens Light. 0 is off, 10 is the brightest. Default brightness is 5.
	POWER SAVE	Enabling power save mode dims your display when you haven't used it in a while, extending your battery life.
	AUDIO	Enable or disable the Atlas audio feedback. Default audio is on.
	RADIO	Change the radio channel to match your wireless controller. Channels range from 1 - 10. Default channel is 0.
	DIAGNOSTICS	The Atlas diagnostics screen
	S.BUS CHANNEL	Assigns the channel used for motor control when using Futaba etc. controllers.
	EXIT	Navigate to the Exit screen and press joystick in to return to the home screen.

ATLAS SETUP

1

Mount Atlas to your rig's top or bottom rail, or gimbal rail system. Use the sliding rail clamp to get Atlas positioned correctly. If necessary, adjust the lever screw to make sure the mount is tight and secure.
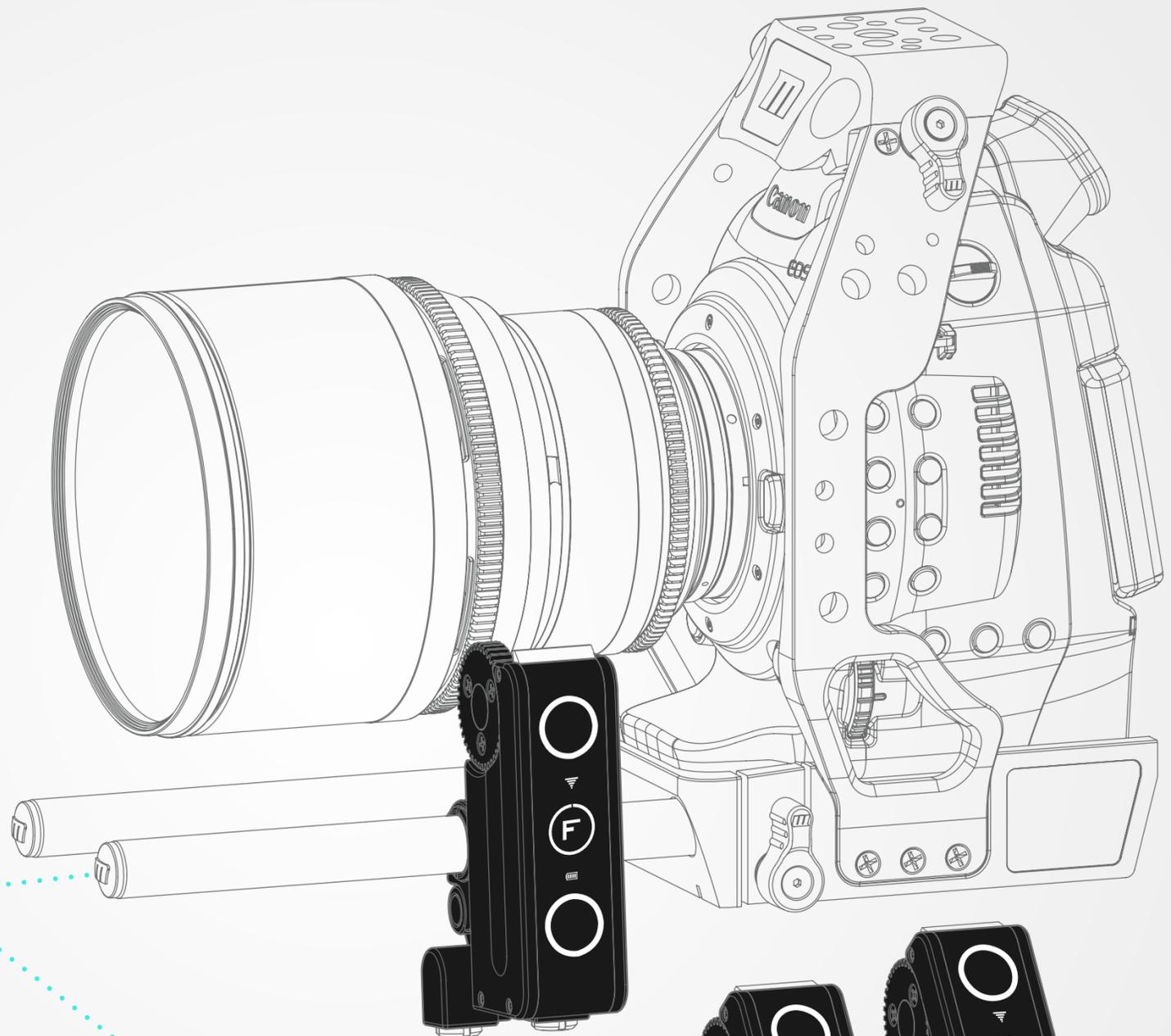
OPTIONAL:
Use a Redrock Dogbone for increased mounting flexibility. The Dogbone can help position the Atlas more precisely and securely, especially when using multiple motors. The Dogbone also makes it possible to position the Atlas at nearly any angle, so the screen is always visible.
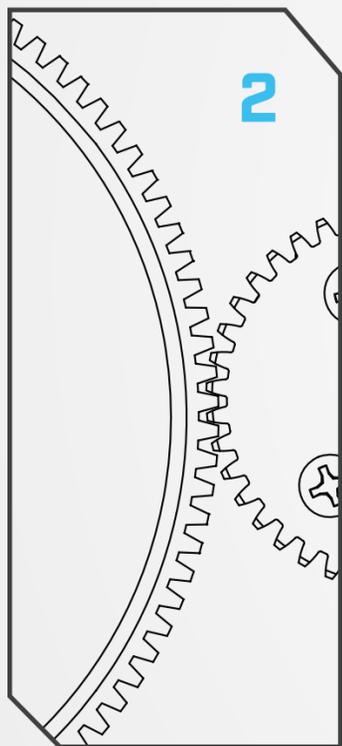**Dogbone Rail Clamp** PN 2-135-0001
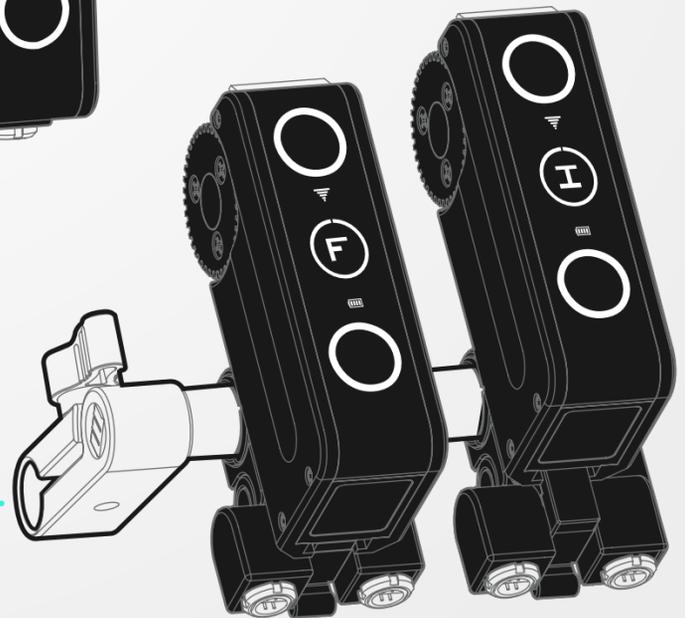
ATLAS SETUP

2
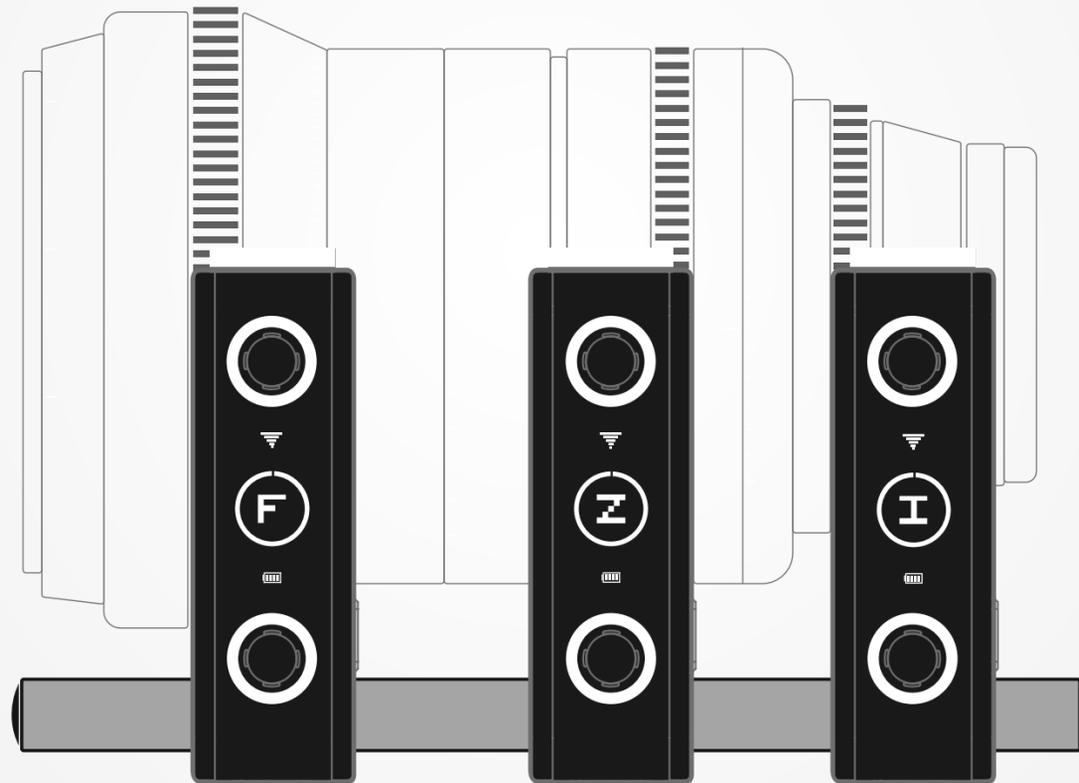
Make sure motor is positioned somewhere in the middle of the lens' focus/iris/zoom range. **Avoid starting at either end of the lens' range.**

3

Press drive gear against the lens using light pressure until teeth interlock, then tighten clamp. **Avoid mounting motor with excess pressure on lens.** See Figure Below

4

Cable Up. Connect your battery to the Focus motor as outlined below. Follow the instructions per your motor controller on page 8.

JUMPER CABLES

Redrock Eclipse Jumper Cables are ideal for daisy-chaining between FIZ motors. PN 2-100-3003

POWER
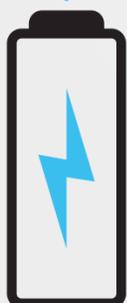
5

Power Atlas via a Redrock powerDock, battery (with a p-tap to Eclipse cable), or by daisy-chaining with another Eclipse product (i.e. Navigator, with built-in LP-E6 port.)

IF USING MULTIPLE ATLAS MOTORS: Connect your battery to the FOCUS motor directly. Then daisy-chain the other motors from the Focus motor in any order.

CALIBRATION

SPECIFY MODE BEFORE CALIBRATING MOTOR

Atlas default mode is Focus (F). If using multiple Atlas motors, set each mode BEFORE calibration. From the Atlas home screen, navigate to the 'Mode' screen and choose between Focus, Iris, or Zoom. Press in joystick to select.

AUTO CALIBRATION

Mount motor to lens as explained on Page 6, with light pressure and in the middle of the lens. **Press in and hold joystick for 2 seconds.** Atlas will perform auto calibration.

Alternatively, you can navigate to the Calibration screen in the Setup Menu. Press joystick up to choose Auto Calibration.

MANUAL CALIBRATION

1. Mount motor to lens as explained on Page 6, with light pressure and in the middle of the lens.

2. Navigate to the Calibration screen in the Setup Menu. Press joystick down to choose Manual Calibration.

3. Press joystick UP until you reach the end of your lens. Press joystick IN to set.

4. Press joystick DOWN until you reach the end of your lens. Press joystick IN TO set.

Eclipse lights temporarily indicate Calibration status:

YELLOW Calibration In Progress

GREEN Successful Calibration

RED Unsuccessful Calibration, Try Again

CONTROLLERS

ECLIPSE MOBILE APP

Free WiFi controller for Atlas and configuration tool for all Eclipse products.

Coming soon for Android and iOS. Subscribe to our newsletter for more info.
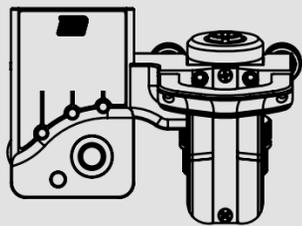
NAVIGATOR COMMAND MODULE

Full featured controller includes wireless or wired connectivity to Atlas.

To control Atlas wirelessly, set the radio channel on both the Atlas and Navigator to your desired channel. See Navigator User Guide for more info, troubleshooting, and tips.

To control Atlas wired, set the radio channel on both devices to 0, and connect them with an Eclipse cable.

microREMOTE HANDHELD

Professional wireless remote lens controller, compatible with the single channel Atlas setup.

Set the radio channel on your microRemote Handheld and the Atlas to your desired channel. See microRemote User Guide for more information on radio channels.

TECH SPECS

General

POWER	MATERIAL	DIMENSIONS	WEIGHT
12VDC to 18VDC	Aircraft Grade Aluminum	L: 96mm x W: 29mm x D: 71mm	238 Grams

Connectors

Connector 1	Eclipse Net Power and Communications
Connector 2	Eclipse Net Power and Communications
Connector 3	Mini Control Port S.Bus

Rigging

Rod Clamp	Lens Gear	Run/Stop Capable	Clamp Style
15/19 mm	0.8	Yes	Removable

Other

WiFi	RF	NFC	Display	Audio	Firmware Updates	Warranty
Yes	2.4Ghz	Yes	OLED	Yes	Click Here to Check	1 Year

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 Eclipse system 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

FC

RoHS
Compliant

TROUBLESHOOTING

1. **LED's are constantly blinking**
Atlas requires calibration. See page 7.

2. **Motor movement is jittery/too sensitive**
Torque level is likely too high for your lens. Reduce the torque value.

3. **Motor movement is weak/slow/under-responsive**
Torque level is likely too low for your lens. Increase the torque value.

4. **Motor won't reach the endpoints of your lens**
Increase torque level.

5. **Intermittent communications:**

Make sure S.Bus Channel is set to 0 if not using S.Bus Controller

Wireless:
a. Make sure you are not connected via Eclipse Cables
b. Make sure your Atlas and controller are set to the same channel
c. Possible wireless interference. Change to a different radio channel

Wired:
a. Make sure radio channel on Atlas and controller are set to 0

6. No communication/control:

a. Confirm you are connected with the correct controller. Atlas indicates the connected controller via display icon
b. Make sure your Atlas and controller are set to the same channel
c. Check to be sure you are using the correct control. i.e. Atlas top wheel = Focus, top wheel = Iris, and joystick = Zoom.

7. Display is blank
Automatic power saving feature is engaged. Press joystick.

8. Display/LED/Lens Lights are dim
Turn the Power Save feature to OFF in the setup menu. You can also customize the brightness of the lights in the setup menu.

9. Display is upside down
Depending on how you mount Atlas, the display may need to be flipped. Navigate to FLIP DISP in the setup menu.

10. Motor direction is backwards
When using Nikon lenses and others, the Atlas direction may feel reversed. Enter the Motor Settings screen, select 'Direction' and set to 'Reverse.'

Troubleshooting Checklist

• Power cycle system
• All batteries are fully charged
• Check that all cables are plugged in to correct ports and fully seated
• Make sure lens is calibrated properly
• Check that torque setting is not too high or low
• Check for radio interference
• Make sure wireless channel matches on Atlas and controller
• Make sure lens gear and motor gears are properly meshed
• Calibrate after any lens change or motor reposition

Most potential issues that you may encounter with your Atlas can be solved by reviewing this list.

If you are still experiencing issues with your microRemote after consulting the Troubleshooting solutions
please contact Redrock Support toll free at 1-888-214-3903 or support@redrockmicro.com.