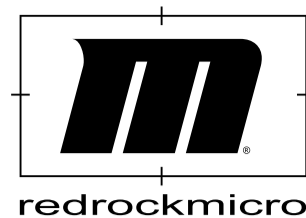


Getting the Most from your Lens Control Motors and the Freely MōVI Pro



The Freely MōVI Pro has added a built-in lens control brain that includes ports for controlling focus, iris, and zoom. MōVI Pro does not include motors, so you have your choice. Redrock Torque motors are a great solution for lightweight, inexpensive and professional lens control that plug-and-play with the MōVI Pro. To help you get the most from your Torque motors on the MōVI Pro we've put together this setup guide and a few troubleshooting tips. This guide is also good for any digital motor on the MōVI Pro.

General Setup Tips for Lens Control Motors on MōVI Pro (including Redrock Torque, SLS, and Atlas motors)

- 1** Make sure the motor isn't pressed too hard into the lens gear. The drive gear should be fully engaged with the teeth, but not forced into the lens gear. This requires more torque, and the controller may incorrectly interpret this as some issue with the lens (it's an endpoint, etc.). This is the most common setup-related mistake.
- 2** Make sure your lens is in the middle of the focus throw and not at one end or the other. If MōVI Pro calibration procedure can't move the lens in both directions, it may stall.
- 3** The side of the motor should be pressed against the lens. Never use the top of the motor's drive gear to drive the lens, it can cause downward pressures and create unnecessary stress on the motor.
- 4** If you are using Bush Pilot, always have it plugged in prior to calibration. Don't unplug Bush Pilot while in use.
- 5** Don't plug in or unplug motors while powered on. Only consider unplugging a motor in the most extreme situations (runaway motor, etc.).

MōVI Pro Bushpilot Setup (See Freely Support for Additional In-Depth Setup Guide)

- 1** Do a FIZ calibration on the Mimic as per Freely instructions.
- 2** Select Knob Calibration. Use the metal stop in the inner portion of the hand wheel as the centering point for center reference.
- 3** Then rotate counter-clockwise, then hit SET, then clockwise rotation, then SET you will be good to go.
- 4** Mimic has a *minimum* distance to the Mōvi Pro before RF saturation can potentially create connection issues and dropped signals. Follow Freely's recommendations and ensure you keep at least 5 feet distance between the gimbal and the Mimic/Bushpilot. See Freely Support for more information about RF Saturation.

Troubleshooting Tips

If you are experiencing difficulties calibrating or using your lens control motors, try the following:

- 1** Calibrate the motor without a lens attached. Try calibrating multiple times to ensure the controller moves the motor in both directions all times. If the motor does not calibrate correctly there may be something wrong with the motor or the MōVI Pro lens controller. If it does calibrate correctly, chances are the motor is pressed too tightly against the lens, or the lens may be too stiff to turn.
- 2** Check battery levels to ensure you aren't low on power.
- 3** Power off and restart the Mimic and the MōVI Pro.



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