

Quick Installation Guide for Dual Motor Focus Controller v3

The evolution of technology in astronomy requires a system which will assist the focusing of the telescope with great accuracy. Fast optics and modern camera devices require automatic focusing in every small period of time as temperature can affect focal length and modify the optimal focus position. Pegasus Dual Motor Focus Controller (DMFC) has been developed to meet these requirements. Controller supports two kind of motor types: DC motors by its Pulse Width Modulation duty cycle control & High Resolution Unipolar or Bipolar Stepper motors for absolute position focusing. Controller can be operated manually by the digital encoder on its side or by PC (USB2 connectivity).



- Plug the temperature sensor into controller's "Sensor" socket.
- Plug the Serial cable to controller and stepper motor socket.
- Motor mode is "Stepper" at default setting. You can change and store this setting from the standalone software.
- Plug power cord into controller (Power Requirement: DC 12V/1A).
- Plug USB type B cable into controller's "usb" socket.
- Controller will power on and led will turn to green. (Device is ready for operation).

For Manual Operation: Use Digital Encoder Knob on the side. Press the Knob to select speed mode (*Green for normal speed, Orange for 1:10 speed reduction*). Rotate the knob (clockwise / anti-clockwise) to emulate your focuser's knob functionality.

For PC Operation: Download the required latest software (standalone program / ASCOM6 driver / Indilib driver) from <http://pegasusastro.com/support>

(Please note: "Windows Update" will install the required device drivers for the device).

Follow the instructions in the detailed product manual on how to use the DMFC with your computer.



What is in the Standard package

- Dual Motor Focus Controller v3
- Temperature Sensor 1m length
- USB type B cable

What is in the Premium package

- Dual Motor Focus Controller v3
- Cigarette Lighter Adapter (3Amps fuse)
- Temperature Sensor 1m length
- High Resolution Stepper Geared Motor Enclosure (Step Angle 7.5, Deg 120, Gear Ration 1:120)
- Universal Black Anodized Aluminum L shaped bracket for Motor
- Different sizes of screws and spacers
- Motor Coupler (5mm to 8mm)
- Serial Cable for Stepper motor (1.5m)
- USB type B cable

Technical Specifications

Power Supply Voltage	12V DC
Motor Compatibility	DC motor – adjustable frequency PWM Unipolar Stepper motors Bipolar Stepper motors
Motor Output	DC motor: max 1.0 Amp. Unipolar / Bipolar stepper motors: max 2.0 Amps (1.0 Amps per phase)
USB Connectivity	USB 2.0 Type B plug
Thermal Sensor Resolution	9-bit Celsius temperature measurements. (measures every 30sec)
Power Input Connector	2.1mm DC - Centre Positive
Motor Connector	D Sub 9 female connector
Dimensions	66mm x 66mm x 28 mm