Quick Installation Guide for **D**ual **M**otor **F**ocus **C**ontroller v3.2

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 after 3 seconds.
- 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 package

- Dual Motor Focus Controller v3
- Temperature Sensor 1m length
- USB type B cable
- Cigarette Lighter Adapter to 2.1mm / 1.8m (3Amps fused)

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	RJ45 female connector
Dimensions	66mm x 66mm x 28 mm

Device is covered by two (2) years warranty
For any questions or support contact: info@pegasusastro.com

Designed and Assembled in Greece