

Starlight Instruments

When only the best will do!

ELECTRONIC FOCUSING SYSTEM
by Starlight Instruments



Available with your choice of motor styles:



Handy Stepper Motor (HSM)



Posi Drive Motor System (PDMS)

Order online at starlightinstruments.com

ELECTRONIC FOCUSING SYSTEM

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The Electronic Focusing System by Starlight Instruments (EFS) comes with a hand controller that allows the operator to manually adjust the focuser. Also included are the necessary power adapter and cables to interface the EFS to your system along with an ASCOM driver. The system offers all the standard features that Amateur Astronomers have come to expect



EFS Parts Include:

- Ethernet cable (red, Motor to Control Box)
- USB cable (silver, Control Box to PC)
- Coiled cable (black, Hand Controller to Control Box)
- Control Box (large rectangle box)
- Hand Controller (small rectangle box with gold knob)
- Motor (PDMS motor pictured, also available with the HSM motor)
- Power supply (Control Box to power source)

including the ability to correct backlash, temperature compensation, and extremely accurate focus. The ASCOM driver also offers several settings including braking of the focus motor and locking the focus motor and several speed options.

The EFS

- measures 4.13" (105mm) long, 2.87" (73mm) wide and 1.1" (28mm) thick,
- has connections on the rear for power, the hand controller, and a USB connection,
- connects to the focuser on the front of the EFS box,
- can be controlled by a computer via the USB interface.

The EFS package comes with an ASCOM driver which will also interface with any other ASCOM compatible telescope control program. The ASCOM driver requires at least the ASCOM platform V6.

ADDITIONAL FEATURES

The small hand controller that comes with the EFS system can offer interesting options. It plugs into the hand controller port on the back of the box. It allows you to control the movement of the focuser by turning the knob on the hand controller. By clicking the knob you can change the number of steps the focuser moves from 1 step to 10 steps to 100 steps per movement. A small light on the hand controller shows you what movement rate is set based on the color. As you rotate the knob you can feel detents. Each detent means the focuser will move by 1 step,

10 steps or 100 steps. This precision can come in handy when using a scope visually or doing planetary imaging and manually adjusting focus. Pressing and holding the knob turns extended functions on and off like temperature compensation, focus lock and zeroing the focus position. You also update the EFS system firmware by utilizing the hand controller. All of these functions are well explained in the EFS user manual. Also note that you don't have to have the hand controller plugged in to use the focus controller with a computer.

MULTIPLE FOCUSERS TO CONTROL

The EFS can be used with a variety of focusers and focus motor add-ons.

- The HSM20 will fit any Feather Touch Micro Focuser, Feather Touch retrofit pinion assembly upgrade, and Feather Touch Crayford Focuser.
- The HSM30 will fit any 2.5", 3.0" and 2.0" Feather Touch Rack/Pinion Focuser, and Astro Physics 2.7" with Feather Touch pinion assembly upgrade.
- The HSM35 will fit any 3.5" Feather Touch Focuser, Astro-Physics 3.5" and 4.0" with Feather Touch pinion assembly upgrade.

For heavier image trains and non Feather Touch Focusers, Starlight Instruments offers the Posi Drive Motor System (PDMS) which can lift in excess of 56 pounds.

To place an order, or for additional product specifications and resources, visit starlightinstruments.com.



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