FocusDream
USB ASCOM control unit for electrical focuser
User guide

USB ASCOM FocusDream
Simple computer interface + Fast and precise adjustment

Electrical focuser type
SkyWatcher (Synta), ORION, Livenhuk and other DC motors.

Standard kit

Standard kit + FocusDream

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1. PURPOSE AND TECHNICAL FEATURES

FocusDream - control unit and modernization of electric focuser designed to expand the user and the technical capabilities of standard electrical and Moto focuser produced under the brands of Sky-Watcher (Synta), Orion, Levenhuk and others.

FocusDream allows the focus in manual and automatic mode directly from a PC, using standard programs such as astronomical MaximDL, FocusMax, BahtinovGrabber and other programs that support the ASCOM platform focusing section.

FocusDream also has its own utility FocusDream Control panel, which allows you to quickly refocus using the utility interface buttons, or use the left or right mouse buttons. Especially useful this tool is for amateur astronomers, planetary photography.

You can program the drive backlash compensation focuser (Backlash).
1. Included in unit

1. FocusDream control unit.
2. USB cable.
3. CD ROM with software and user manual FocusDream.

2. GETTING STARTED (for example, modernization of electric focuser Sky-Watcher)

1. Connect the control unit and the engine FocusDream electric focuser regular cable that comes with the focuser Sky-Watcher.

2. Connect the control unit FocusDream to the computer's USB port cable that comes with the modernization of the focuser. At the same time on the installation of new equipment a request to specify the path to the driver on the CD c software: "CD drive": \driverVirtComPort \ "...".

   After you install the equipment manager will be a new device - Virtual Communications Port (COMx). The device is ready to go!

3. FOCUS UTILITY FocusDream Control panel.

1. Utility FocusDream Control panel is located on the on the CD c software: "CD drive": \FocusDream Control panel \FocusDream Control panel.exe

2. When you run the COM port selection in the drop-down menu, select the port corresponding to the number Virtual Communications Port (COMx) in Device Manager. Use the "Connect / Disconnect" Link utility FocusDream Control panel with focuser.

3. The utility supports two control modes focuser: intermittent and continuous.

   Intermittent focuser control interface virtual buttons

   '+' "Or" - "located in a working window utility FocusDream Control panel. One click moves the focuser by the amount specified in the "Incremental".

   IMPORTANT! Emergency stop Electrical focuser by pressing the button STOP!
Continuous focuser control mode by left and right buttons of a mouse. Change the mode by pressing the middle mouse button or mouse wheel scrolling.

If you change the mode to continuous virtual focuser control buttons will be inactive, and they will flash the letters "M" and "C", which means the Mouse Control.

The focuser will move continuously by pressing and holding one of the buttons.

IMPORTANT! Continuous focuser control mode will be active only if the mouse pointer is in the FocusDream Control panel Utility window.

Is set in the "New position" a number from 0 to 10000 and clicking "Sync position" can be assigned to a new position focuser. This is required when the focuser is at the extreme positions (0 or 10000), and focusing is still not achieved.

In the "Current position" you can watch the current position of the focuser. Use the "Connect / Disconnect" you can disconnect FocusDream Control panel of Virtual Communications Port (COMx) at the end of the work, before exiting the application.
4. **FOCUSING** in astronomical programs supported ASCOM platform.

1. For FocusDream astronomical programs, supporting ASCOM platform, you must install the ASCOM Platform 6.1SP1 (http://www.ascom-standards.org). Next, you need to install FocusDream Ascom driver, located on the CD c software: "CD drive": \FocusDream Ascom driver \FocusDream Setup.exe. Interface initial settings, FocusDream Setup, same when focusing from any astronomical program that supports the ASCOM platform. Unlike FocusDream Control panel interface utility has an additional field to set the maximum position of the focuser - "Max focuser position" and the field "Backlash (steps)" - to set the drive backlash compensation focuser.

Further, the red figures, shows the sequence of actions when connecting FocusDream astronomical programs: MaximDL, Bahtinov Grabber and FocusMax.

Description focusing process in these programs can be found on the websites of manufacturers of these programs.
2. Working with the program MaximDL
http://www.cyanogen.com/
3. Working with the program Bahtinov Grabber
http://www.njnoordhoek.com/?m=200903
4. Working with the program FocusMax

http://www.focusmax.org/