

- SETTINGS**
Load, save or create new objective settings. Factory reset also available
- MODE**
Switch the mode of the PureFocus unit between stepper and piezo.
- SETUP**
Ability to live-view the PureFocus sensor directly, running at a significantly lower update rate.
- PID**
Sets servo proportional, integral, differential parameters for optimum performance.
- OFFSETS**
Move between 5 stored offset positions.
- PINHOLE**
Allows for manual adjustment of the pinhole centre and width. Used for a full manual setup.
- LASER**
Allows manual adjustment of the laser power to any level between 0 and 4000.
- FLAGS**
Adjust the threshold levels that define the 3 flag conditions.
- Z-SCAN**
Troubleshoot or assess error signals, using simple Z scans with sensor measurements saved at each Z point.
- SEARCH**
Two features which allow focus to be found in two different situations. Used when the Focus flag is false.
- Z-SPEED**
Settings to adjust Z speed and acceleration.
- DIAG**
Troubleshoot a PureFocus system during customer support. Log coms between the GUI and PureFocus.
- ABOUT**
Information on current version number.

OBJECTIVES
OBJ1 to OBJ6 are shown on the display of the controller. When an objective is selected, parameters for that objective are loaded and restored.

Objective parameters can be saved and loaded to and from external files via the settings drop down menu.

FLAGS
Utilises three flags that are updated in real time to help inform the user of the current state of the system.

IN FOCUS
The unit has a sample in focus.

SAMPLE DETECTED
The unit recognises a sample via light reaching the sensor, and or the sample is in focus

CORRECT INTEFACE
Focus locked on the correct interface

SERVO
Toggles servo on and off. When servo is active SRV is shown on the display of the controller and Z position control becomes automated by the PureFocus.

When servo is inactive MAN is shown on the display of the controller, when in this focus mode the Z position can be manually adjusted using the digipot.

MEASUREMENTS
Shows the signals and measurements coming from the PureFocus sensor: A, B, A+B, A-B and ERROR which is the error signal used to steer the focus when the servo is active. Some of these values have visual and numeric indicators to aid the eye.

ZERO TARGET & TARGET
Value of TARGET can be set as the current error signal value via the 'Target' button. Current target value can be set to zero by pressing the 'Zero target' button.

OFFSET POSITION
Shows the current and default offset position values. Changing the offset this will provide optimum sharpness of the image.

OFFSET/FOCUS
Toggles between Offset and Focus mode. When Offset mode is selected an OFF is shown on the controller display and the digipot adjusts the offset, when Focus mode is selected a FOC is shown on the controller display and the digipot adjusts the Z position.

SPEED
Sensitivity of the digipot can be adjusted for offset and z control independently using speed option.

UPDATES CAN BE DOWNLOADED FREE

HALT Z
Emergency stop button to instantly stop motion of the Z-axis

STEP DOWN
Basic functionality to step the Z-axis down by desired step size.

STEP UP
Basic functionality to step the Z-axis up by desired step size.

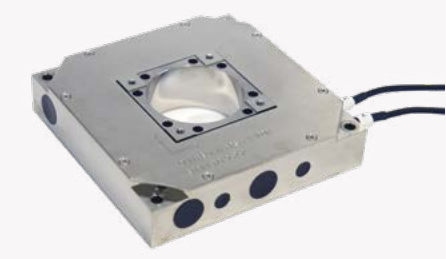
LIFT TO LOAD
Moves the Z-axis to a fixed distance to insert or remove a sample.

GO HOME
Moves the Z position to the home position.

ZERO Z / SET HOME
Set a Z-axis home position.

Runs on Windows 7 to 10, 32-bit and 64-bit.

PRIOR SCIENTIFIC RANGE



Queensgate Nanopositioning Devices & Sensors



Motorized Stages



Controllers



Metal Halide/LED Illumination Systems

Visit www.prior.com to see our full range