ES10ZE Focus Controller

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Motor Controllers for Affordable Focus Control

Features

Prior Scientific has introduced a new focus only control system for modern microscopes. Ideally suited to those applications involving extended focus or Z-stacking, the ES10ZE offers a low cost, compact, yet powerful system to automate a microscope focusing mechanism. The controller provides a clear display showing the current position at all times while separate controls are provided for rapid movement up or down along with the facility to change the speed of the focus movement. A manual focus knob is also provided for manual fine focusing and ease of operation.

The ES10ZE is compatible with the world's leading imaging software packages which means it can be controlled from most imaging platforms, making extended focus images very easy to generate. The system can be used on many different microscopes including inverted and upright compound microscopes plus stereomicroscopes. For the most demanding applications the ES10ZE will also support encoders ensuring the very best in terms of precision and accuracy.

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ES10ZE Focus Controller

General Specifications

Resolution: Programmable to 10 nanometers. Factory default is 100nm. Minimum resolution with optional encoder is 50nm.
Speed: 1600 microns/second
Controller Size: 165 mm wide x 125 mm deep x 60 mm tall
Power: Universal external power supply. Input 100-240V, 50/60Hz., Max 1.6A
Computer Interface: RS232/USB, 9600 baud
Communication Protocol: 8 bit word, 1 stop bit, no parity, no handshake
Motor: 4 phase, 1 Amp per phase, 1.8 degree stepping motor
Finish: Painted black
User Interface: Large digipot knob for manual control. Buttons for: set zero, speed setting, move up, move down
Display: Position

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Focus Controller

Part Number	Description
ES10ZE	Focus only controller for encoded or non-encoded focus motors with manual focus knob and RS232/USB communication.

Focus Drive

Part Number	Description
H122*	Standard focus drive that clamps onto the coarse and drives the fine focus. *Requires focus sleeve.

Focus Sleeve

Part Number	Description
H2581	Leica DM4000/5000/6000 & 3000B/4000B/5000B/6000B
H2754	Leica DM2500
H968	Leica DMR, DMIRB
H557	Motic
H2531P	Nikon 50i, 80i and TE2000
H2531	Nikon AZ100 - Lower focus only
H556	Nikon Diaphot/Epiphot 300, TE200/300, Labaphot2, Microphot SA, LV100, E400/600/800, Optiphot 150/300, Optiphot II, L150, L200
SP019	Nikon MM40L3
H528	Nikon TS100
H2975P	Nikon Ti
H551	Olympus BH, IMT-2, PME-3, PMG-3, CK-2 & Navitar Micromate
H807	Olympus BX, IX, AX, MX, CK40, GX51, SZX9, SZX12
H2193	Olympus SZX16, MVX10
H550	Prior
H1713	Zeiss Axioskop 2, Axiovert 200 (mounts on LHS), Axioskop 40, Axiophot 2, Axioplan
H552	Zeiss (for accurate positioning use H122AXIO or linear scale kit) Note: not adaptable to Zeiss standard, Zeiss Axiotech Vario, Zeiss Universal
H2779	Zeiss AxioImager

Please contact Prior Scientific for additional focus sleeve models that may not be listed above.

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