

# ES10ZE Focus Controller

## Motor Controllers for Affordable Focus Control

### Features



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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.

# 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:** 2 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

## Focus Controller

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

## Focus Drive

Part Number	Description
<b>PS3H122*</b>	Standard focus drive that clamps onto the coarse and drives the fine focus. *Requires focus sleeve.

## Focus Sleeve

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

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

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Specifications subject to change without notice.

