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110mm Travel, Ultra Precision Linear Motor Stage, Integrated Controller, Linear Encoder

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General

Metric **Type:**

Yes **Encoder:**

Yes **Manual Control/ LED Indicators:**

Zaber Technologies Inc. **Manufacturer:**

Note:

Requires a 24-48 VDC power supply and either [#15-295](#) for USB connectivity or [#15-297](#) for RS-232 connectivity. A data cable ([#15-296](#) or [#15-299](#)) can be used to daisy chain multiple stages together to control simultaneously.

Type of Motor:

Moving Magnet Track Linear Motor

Encoder Type:

Linear Analog Encoder

Physical & Mechanical Properties

Linear (X) **Type of Movement:**

Crossed-Roller Bearing **Guide System:**

245 x 151.5 **Stage Size (mm):**

110 **Travel (mm):**

1 **Accuracy (µm):**

44 **Height (mm):**

12 **Load Capacity (kg):**

<0.08 **Repeatability (µm):**

0.00061 - 1200 **Speed (mm/s):**

3.76 **Weight (kg):**

Electrical

3000 **Maximum Operating Current (mA):**

Hardware & Interface Connectivity

Moving Magnet Track Linear Motor **Type of Drive:**

Power Supply Required and Sold Separately.
Power Supply:
 USA: [#70-960](#)
 Europe: [#70-960](#)
 Japan: [#23-662](#)
 Korea: [#33-773](#)
 China: [#70-960](#)

RS-232 **Computer Interface:**

Environmental & Durability Factors

10 - 40 **Operating Temperature (°C):**

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 247:**

Product Details

- 60, 110, 210mm Travel Options
- Up to 1200mm/s Speed
- Ultra-High Repeatability and Accuracy

Zaber™ Ultra High Precision Linear Motorized Stages are computer-controlled linear stages that utilize a moving magnet track linear motor and centrally located encoder to accurately and precisely position optical components or subsystems. These stages can connect directly to a computer's USB or RS-232 port and are compatible with [Zaber Launcher](#) and [Zaber's Motion Library](#) for quick set up and intuitive automation and control. The linear analog encoder has 1nm count size ensuring 1µm positional accuracy, < 0.08µm repeatability, and consistent minimal incremental movement steps down to 20nm. Zaber™ Ultra High Precision Linear Motorized Stages are driven by non-cogging ironless linear motors which allow for speeds up to 1200mm/s with a minimum speed and speed resolution of 0.61mm/s. These stages are designed with metric tapped holes for mounting and an indexed knob and push switch for manual control when needed.