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

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## Product Downloads

### General

Metric **Type:**

Yes **Encoder:**

Yes **Manual Control/ LED Indicators:**

Zaber Technologies Inc. **Manufacturer:**

Requires a 24-48 VDC power supply and either [#15-](#) **Note:**

[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

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

**Guide System:**  
Crossed-Roller Bearing

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

**Travel (mm):**  
110

**Accuracy (µm):**  
1

**Height (mm):**  
44

**Load Capacity (kg):**  
12

**Repeatability (µm):**  
<0.08

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

**Weight (kg):**  
3.76

## Electrical

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

## Hardware & Interface Connectivity

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

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

**Computer Interface:**  
RS-232

## Environmental & Durability Factors

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

## Regulatory Compliance

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

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

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

## 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.