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

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⊖ 1 ⊕ C\$12,950⁰⁰

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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.