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

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Stock **#70-564** **2 In Stock**

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1

+

S\$12,950⁰⁰

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Product Downloads

General	
Type:	
Metric	
Encoder:	
Yes	
Manual Control/ LED Indicators:	
Yes	
Manufacturer:	
Zaber Technologies Inc.	

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.

Moving Magnet Track Linear Motor	Type of Motor:
Linear Analog Encoder	Encoder Type:

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):
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Hardware & Interface Connectivity

Moving Magnet Track Linear Motor	Type of Drive:
Power Supply Required and Sold Separately: USA: #70-960 Europe: #70-960 Japan: #23-662 Korea: #33-773 China: #70-960	Power Supply:
RS-232	Computer Interface:

Environmental & Durability Factors

10 - 40	Operating Temperature (°C):
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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.