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

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-

1

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₹8,16,300

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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.

|                                                                                                                                                                                                                     |                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Moving Magnet Track Linear Mtor                                                                                                                                                                                     | 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): |
| Hardware & Interface Connectivity                                                                                                                                                                                   |                                 |
| Moving Magnet Track Linear Mtor                                                                                                                                                                                     | Type of Drive:                  |
| Power Supply Required and Sold Separately:<br>USA: <a href="#">#70-960</a><br>Europe: <a href="#">#70-960</a><br>Japan: <a href="#">#23-662</a><br>Korea: <a href="#">#33-773</a><br>China: <a href="#">#70-960</a> | Power Supply:                   |
| RS-232                                                                                                                                                                                                              | Computer Interface:             |
| Environmental & Durability Factors                                                                                                                                                                                  |                                 |
| 10 - 40                                                                                                                                                                                                             | Operating Temperature (°C):     |
| Regulatory Compliance                                                                                                                                                                                               |                                 |
| <a href="#">Compliant</a>                                                                                                                                                                                           | RoHS 2015:                      |
| <a href="#">View</a>                                                                                                                                                                                                | Certificate of Conformance:     |
| <a href="#">Compliant</a>                                                                                                                                                                                           | Reach 247:                      |
| Canada                                                                                                                                                                                                              | Country of Origin:              |
| Edmund Optics India Private Limited                                                                                                                                                                                 | Imported By:                    |

## 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.

