HLD117DM
High Precision Stage with Linear Motor Technology for Leica DMI Microscopes

Prior’s newest stage technology, the HLD117DM stage with Linear Motor Technology brings a new level to precision in microscope automation.

Features of the HLD117DM include:
• Superior repeatability - 0.15μm*
• Faster scanning speeds up to 300mm/sec
• Low profile
• Ultra quiet operation
• Super smooth movements
• Flat top design
• Integrated 50 nanometer encoders standard
• Compatible with Prior NanoScan Piezo Z stages
• Fixed stage cable eliminates cable drag improving performance
• Integrates/compatible with most imaging software
• Range of standard sample holders

General Specifications
• Travel range: 120 mm x 72 mm
• XY repeatability: 0.15μm*
• Minimum step size (resolution): 0.05μm
• Metric accuracy (per mm of travel): 0.045μm**
• Minimum velocity: 1 micron/second
• Maximum velocity: 300 mm/second
• Squareness: 20 arc/second**

• Motors: high precision linear DC servo
• Linear slides: precision 3mm crossed roller way
• Limit switches: X and Y standard
• Stage profile: approximately 32.5 mm
• Weight: approximately 7 kg
• Maximum load capacity: 6 kg

*Mean value
**Based on performance with IST enabled and measured over full travel of the stage.
HLD117DM Stage With Linear Stage Technology Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>DMLDXY</td>
<td>ProScan linear motor XY stage kit including ProScan III LD controller, HLD117DM linear stage, PS3J100 joystick and H473XR universal specimen holder for slides/petri dishes</td>
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<tr>
<td>HLD31XYZ</td>
<td>ProScan III LD linear motor controller</td>
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<tr>
<td>HLD117DM</td>
<td>Prior linear motor stage for Leica DMI microscope</td>
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