FPD Lithography Systems

FX-67S2/67S

Gen 6 Plate FPD Lithography Systems
Delivering a High Resolution of 2 μm
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The FX-67S2/67S supports the production of small- and medium-sized panels from Gen 6 plates. The scanner method enables improved productivity, excellent resolution and high overlay accuracy.

Key Features

- **Multi-lens System**
  Both models feature the multi-lens system consisting of multiple projection lenses. This design enables a wide exposure field and excellent resolution.

- **High Throughput**

- **High Resolution**
  A new adjustment mechanism has been incorporated to further improve the resolution of the multi-lens system, which comprises multiple projection lenses. A new illumination system using our proprietary resolution enhancement technique has also been developed. Also incorporated is a new auto-focus system with optimized measurement points, enabling a high resolution of 2 μm (L/S) while also ensuring a wide depth of focus.

- **High Overlay Accuracy**
  The increased number of interferometer measurement axes and the newly designed measurement system have led to improved measurement stability and a high overlay accuracy of ±0.5 μm.

- **Improved Exposure Performance**
  The FX-67S2/67S employs a variety of calibration functions developed utilizing our unique technology and provides enhanced exposure performance stability.

### Performance

<table>
<thead>
<tr>
<th></th>
<th>FX-67S2</th>
<th>FX-67S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution (L/S)</td>
<td>2.0 μm (g+h+i-line)</td>
<td></td>
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<tr>
<td>Projection magnification</td>
<td>1:1</td>
<td></td>
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<tr>
<td>Overlay</td>
<td>≤ ±0.5 μm</td>
<td></td>
</tr>
<tr>
<td>Maximum plate size</td>
<td>1,500 mm × 1,850 mm</td>
<td></td>
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<tr>
<td>Takt time</td>
<td>57 sec./plate</td>
<td>61 sec./plate</td>
</tr>
<tr>
<td></td>
<td>Conditions: 1,500 mm × 1,850 mm, 4 scans, g+h+i-line, 30 mJ/cm²</td>
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</tr>
</tbody>
</table>

**WARNING**

TO ENSURE CORRECT USAGE, READ THE CORRESPONDING MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.

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