Laser Direct Imaging
PLI 500 Speedlight 2D with Automation
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TECHNICAL SPECIFICATIONS

<table>
<thead>
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<th>PLI 500</th>
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<tr>
<td>Throughput (18 mJ/cm²)</td>
<td>Up to 320 exposures/hour (160 two-sided DCBs/hour)</td>
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<tr>
<td>Resist pattern</td>
<td>Minimum feature (line/space): 25 µm* Roughness: ± 2.5 µm Data resolution: 2 µm Depth of field: ± 300 µm</td>
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<tr>
<td>Registration</td>
<td>Front to back side: up to ± 10 µm</td>
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<tr>
<td>Panel format</td>
<td>Size, max.: 660 x 650 mm (expandable to 660 x 850 mm) Thickness: 0.05 mm – 8 mm Exposure field width, max.: 650 mm</td>
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<td>Panel weight</td>
<td>Max. 3 Kg</td>
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<td>Light source</td>
<td>Laser diodes with 405 nm wavelength</td>
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* Requires appropriate resists as well as appropriate upstream and downstream process designs.

FEATURES

- Max. throughput of up to 320 exposures/hour.
- Pilot panel scaling: Up to 10 pilot panels.
- Traceability: Flexible serialization. Various possibilities* to expose the serial number of the panel, or individual regions of the panel with ascending numbers. Even with several different sequences of numbers.
- Multispool: Handling spool data for several imaging systems.
- Order statistics.
- Registration accuracy peaking in ± 5 µm @ 3 Sigma** with patented corner registration.
- Line enlargement or thinning compensates for line thickness modifications due to downstream processes.
- “Step and Repeat”: Partial registration up to 64 regions with all registration methods mentioned.
- Smart Service Concept.

* Offers a wide range of customization options.
** Depending on method and registration mark quality and accuracy.

- MultiScan technology (9 polygons, 288 diode lasers) for high-throughput/high accuracy exposures.
- Conductive pattern determined in real time for each exposure.
- Registration/alignment and scaling in real time.

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