ALDI-PBD Series
Double-sided Maskless Exposure System for PCB

Advanced Laser Dynamic Imaging
Maskless Lithography

Aiscent Technologies, Inc.
ALDI-PBD Series
Double-sided Maskless Exposure System for PCB

Application:
High volume manufacturing of high-quality HDI; Quick Samples;
Small quality manufacturing of various PCB designs; All layer process
application including inner layer, outer layer and solder mask.

Product Features

Double-side Laser Dynamic Imaging Technology
Our proprietary patented technology of double-sided laser
dynamic imaging makes it possible to achieve super side-
to-side alignment accuracy and high throughput.

High Power Fiber Coupled Laser
Fiber coupled high power laser module gives lighting
exposure speed on all conventional photoresist. Flash
operation mode leads to energy scaling and long operation
life time.

Flexible Multi-Engine scanning Technology
Our modular optical engine gives the flexibility to adapt
variable imaging heads for all kind of application requirements.

Real-time Scaling and Regional Distortion Compensation Technology
The system generates images in real time, allowing the
dynamic compensation for substrate scaling and rotation.
Serial stamping and sub-panel distortion compensation
are optional.

All Layer Process Capability
Our superior exposure system applies to all layer processes
and different dry films, including inner layer, outer layer
and solder mask.

Technical Parameters

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Model</td>
<td>ALDI-PBD-836</td>
</tr>
<tr>
<td>Maximum substrate size</td>
<td>24”x32”</td>
</tr>
<tr>
<td>Substrate thickness</td>
<td>0~10mm</td>
</tr>
<tr>
<td>Minimum linewidth distance</td>
<td>28um</td>
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<tr>
<td>Linewidth uniformity</td>
<td>±2um</td>
</tr>
<tr>
<td>Alignment accuracy</td>
<td>±10um</td>
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<tr>
<td>Side-to-side alignment accuracy</td>
<td>6um</td>
</tr>
<tr>
<td>Light source life</td>
<td>10000hrs</td>
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<tr>
<td>Light source uniformity</td>
<td>&gt;95%</td>
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<tr>
<td>Alignment field of view</td>
<td>4.8mm x 5.7mm</td>
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<tr>
<td>Data format</td>
<td>Gerber274D/X:ODB</td>
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<tr>
<td>Wavelength</td>
<td>405nm</td>
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<tr>
<td>Production efficiency</td>
<td>10mJ/cm² 220piece/hr</td>
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<tr>
<td>(20”x24”)</td>
<td>40mJ/cm² 150piece/hr</td>
</tr>
<tr>
<td>Load/unload</td>
<td>Manual/Auto-loading option</td>
</tr>
</tbody>
</table>

25umL/S different angles exposure results for ALDI-PB Series

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