UV and DUV Exposure Sources

Innovative, Integrated and Adaptable
The Abet Gen II optical design, shared with all the solar simulators on the preceding pages, dramatically increases the percentage of photons reaching the work plane. All components are integrated in a single housing. 4x4 and 6x6 inch illuminated fields are most popular, other field sizes are available.

Dichroic reflectors are available to narrow down the spectral range. Additional spectral shaping can be achieved with filters, e.g. Model 12075 T-Topping for SU-8 resist, frequently used for MEMS generation.

Ordering Information
A small sampling of Abet UV and DUV exposure systems and accessories. Please contact Abet with your UV source and mask alignment requirements.

12002  200 W Hg Source, 4x4 in, 350-450
12008  1 kW DUV HgXe source, 6x6 in
12075  T-Topping filter for SU-8

Specifications
- Gen II Optics for High Efficiency Illumination
- Hg and HgXe 200 W to 1 kW Lamps
- +/- 5% Uniformity
- Long Life Shutter Included
- Digital Shutter Timer Included
- HEPA Filtered Cooling
- Ozone venting attachment for DUV

Irradiance uniformity…………………………………. +/-5% or better
Electronic shutter (long life) ……………………………. included
Electronic shutter timer …………………………………. included
Elapsed Time Meter …………………………………… included
Working Distance……………………………………….. 8 in/200 mm (typical)
Universal Input 90-250V, 50-60Hz, power supply included
Standard Output Direction………………………………Down
  Horizontal output optional
HEPA filtered cooling fan……………………………… included

Below are typical output powers in the 350 to 450 nm spectra region for two different wattage sources. Information on other spectral regions is available on request.

<table>
<thead>
<tr>
<th>Work Plane Size</th>
<th>200 Hg Watt Systems</th>
<th>500 Hg Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 2 Inch</td>
<td>378mW cm²</td>
<td>865mW cm²</td>
</tr>
<tr>
<td>4 x 4 Inch</td>
<td>94mW cm²</td>
<td>215mW cm²</td>
</tr>
<tr>
<td>6 x 6 Inch</td>
<td>42mW cm²</td>
<td>97mW cm²</td>
</tr>
<tr>
<td>8 x 8 Inch</td>
<td>23mW cm²</td>
<td>52mW cm²</td>
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</tbody>
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Abet Technologies Model 12002 200 W Hg source with a mask aligner for SU-8 based MEMS.

Abet Technologies regularly continues to upgrade our products, therefore all specifications are subject to change without notice.