

UV-KUB Z

4" version

6" version

UV LED masking system

Very compact table-top system for soft lithography

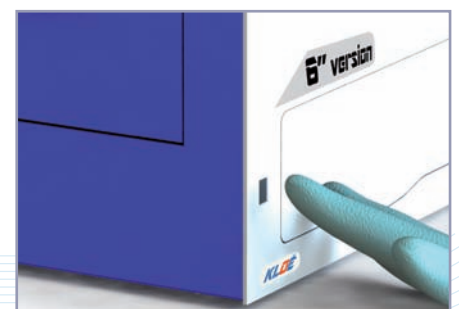
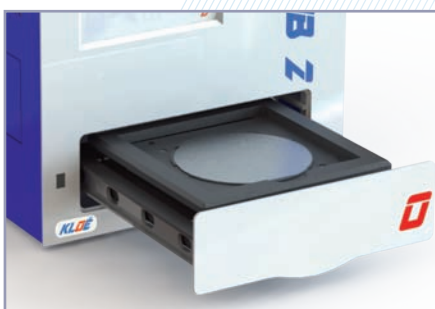
Perfectly monochromatic at 365nm +/- 5nm

Hard and soft contact up to 4" wafer version 4"

Hard and soft contact up to 6" wafer version 6"

Compatible with all photoresists

Resolution: 1µm



UV-KUB 2

4" version

6" version

UV LED masking system

Kloé has extensive experience in photolithography through its Dilase direct laser writing technology, and thus introduces the UV-KUB system for the curing of UV light photosensitive materials. The UV-KUB 2 is an exposure and masking system based on UV LED with available light sources at 365nm. This is a very compact table-top system capable of exposing up to 4" diameter wafer or 6" wafer, depending the version. The UV-KUB system is compatible with hard (physical) or soft (proximity) contact processes, and features variable mask to substrate distance control.



Features

- A perfectly monochromatic exposure light source over the whole working surface: higher curing efficiency
- Cold UV exposure conditions and real time in-situ temperature control of the substrate environment: providing homogeneous exposure over the whole surface, therefore prevents undesirable thermal effects
- Long lifetime (based on LED system): > 10 000 hours of efficient use
- User-friendly touch screen interface for exposure cycles programming
- Continuous or cyclic exposure modes available
- No warm-up time required
- Computerized control of UV source intensity adjustment is intuitive and straightforward
- UV exposure chamber is totally hermetic: guarantees user safety
- Automated wafer loading and unloading system
- Low consumption

Performances

- The UV-KUB 2 systems are ideal for a wide range of applications in laboratories and R&D groups dealing with microfluidics, optics, biotechnology, microtechnology, photolithographic processes requiring 1 masking level, wafer bonding, simple layer or adhesive curing, connections, assemblies and biological or cells cultures.

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|---|------------------------------|
| Resolution | 1µm |
| Emission spectrum | 365nm +/- 5nm |
| Illumination on the surface of a 4 inches wafer | 35mW/cm ² +/- 10% |
| Heating of the wafer during the insolation | < 1°C |
| Insolation cycle (continuous/discontinuous) | From 1 second to 1 hour |
| Number of memorized cycles | 10 |
| UV-KUB dimensions | 260x260x260mm |
| UV-KUB weight | 8,2kg / 18lbs |
| Color touch screen | 5.7 inches diagonal |
| Power supply | 100V/240V - 50Hz/60Hz |
| Maximum power consumption | 180 Watts |

