

# UV-KUB 2 Mask Aligner

## UV LED masking system

- ▶ Very compact table-top system
- ▶ Perfectly monochromatic at 365nm
- ▶ Hard and soft contact up to 4 inches wafer
- ▶ Compatible with all photoresists
- ▶ Resolution : 2  $\mu$ m



# UV-KUB 2

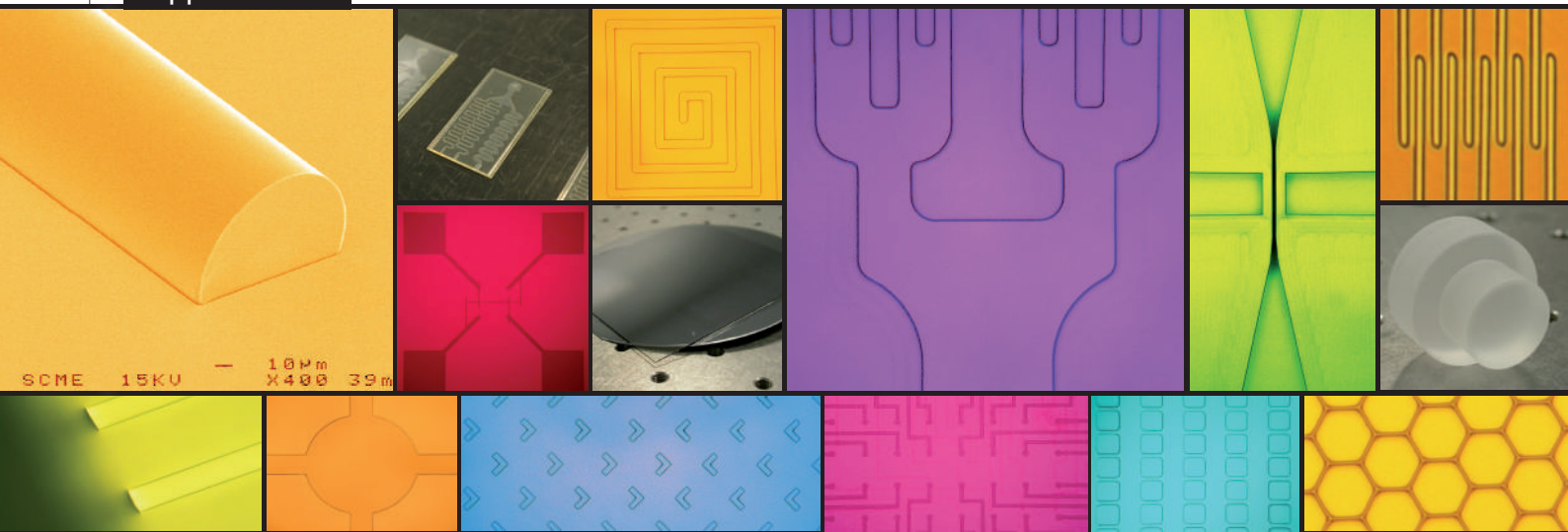
Kloé has extensive experience in photolithography through its Dilase direct laser writing technology, and thus introduces the UV-KUB system for the curing of UV light photosensitive materials. The UV-KUB is an exposure and masking system based on UV LED with available light sources at 365 nm or at 405 nm, depending the version. This is a very compact table-top system capable of exposing up to 4 inches diameter wafer. 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.



## Applications



## Performances

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

Resolution	2 $\mu$ m
Emission spectrum	365 nm / 405 nm
Illumination on the surface of a 4 inches wafer	25 mW / cm <sup>2</sup> $\pm$ 10 %
Heating of the wafer during the insolation	< 1°C
Insolation cycle (continuous/discontinuous)	from 1 second to 18 hours
Number of memorized cycles	10
UV-KUB dimensions	260 x 260 x 260 mm
UV-KUB weight	8,2 kg / 18lbs
Color touch screen	5.7 inches diagonal
Power supply	110V / 60Hz or 230V / 50Hz
Maximum power consumption	180 Watts