

UV-KUB 9

UV LED high-powered large surface exposure system

- ▶ Very compact system
- ▶ curing of blue tape for dicing
- ▶ Wafer bonding and temporary bonding applications
- ▶ Perfectly monochromatic at 365nm
- ▶ Compatible with 4, 6, or 8 inches wafer and 7 or 9 inches mainframe.



UV-KUB 9

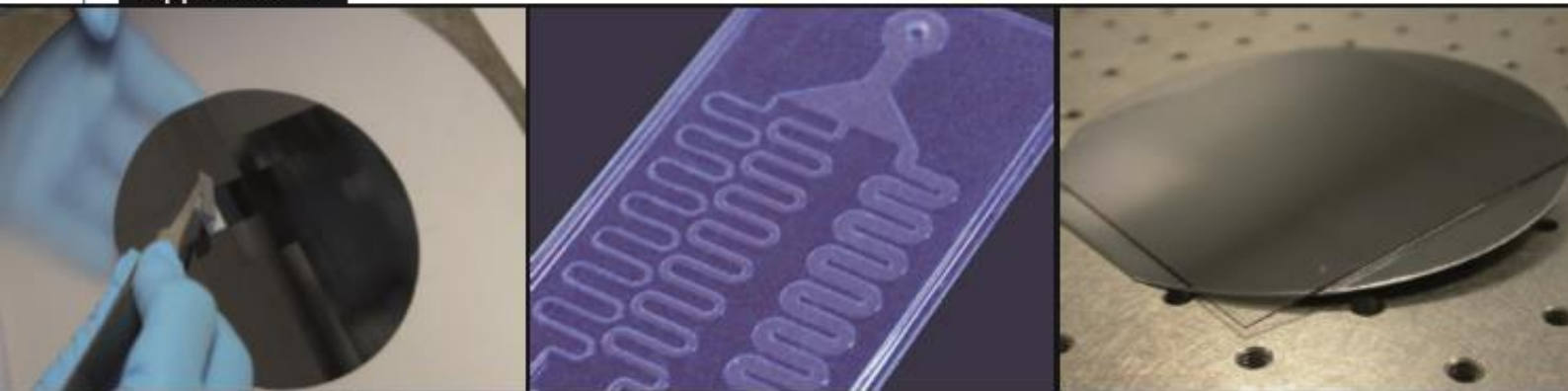
Kloé has extensive experience in photolithography through its Dilase direct laser writing technology, and thus introduces the UV-KUB system for the curing of UV light photosensitive materials. UV-KUB 9 is a UV LED high power curing system working with light source at 365nm. This is a very compact table-top system capable of exposing until 9 inches in diameter surfaces with a homogeneity better than 10% on all the working surface. This system is currently used for wafer bonding, temporary bonding and dicing blue tape curing applications.

Features

- Compatibility with 4, 6, or 8" wafers and 9" (for 8" wafer) and 7" (for 6" wafer) mainframe.
- 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.
- Higher power density (145mW cm²).
- Long lifetime (based on LED system) : > 10000 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.
- Low consumption.



Applications



Performances

- The UV-KUB 9 system is ideal for a broad range of applications in laboratories and R&D groups dealing with blue tape for dicing.
- It is also very well adapted for wafer bonding and temporary bonding application.

Emission spectrum	365 nm ± 5 nm
Illumination	145 mW/cm ² +/- 5%
Heating of the wafer during the insolation	< 2°C
Insolation cycle	From 1 second to 1 hour
Number of memorized cycles	10
UV-KUB 9 dimensions	350x350x350mm
UV-KUB 9 weight	22kg - 44 lbs
Color touch screen	5.7 inches diagonal
Power supply	110V/60Hz - 230V/50Hz
Maximum consumption	800Watts
Exposure time for blue tape curing	ADWILL D650 : 15 sec ADWILL D175 P370 : 45 sec