

UV-LED Maskers 4" & 6"

UV-KUB Z

UV-LED Flood Exposure & Masking System



**“Benefits of UV-LED source:
low power consumption, very long lifetime”**

Min. < 2 μ m feature size

Up to 4" or 6" exposure area

365nm UV-LED source, +/- 5nm

10.000 hours of LEDs lifetime

2 exposure modes: continuous or flashing

Compatible with all UV photoresists sensitive to 365nm

Benefits

No warm-up nor cold down required

Touch-screen operated

Equipment fully closed

No need to operate in cleanroom

Handy & compact equipment, **UV-KUB Z** is equipped with a 365nm monochromatic & collimated UV Light source based on LED technology.

High quality collimation

Divergence angle below 2° offers the possibility to work in masking mode on thick resist layers without altering the rendering of edges of the patterns.

High-quality collimation allows to reach resolution down to the micrometre scale **without needing vacuum contact mode**.

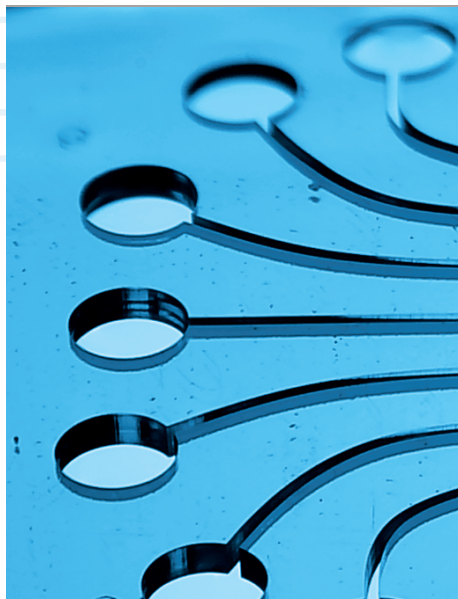
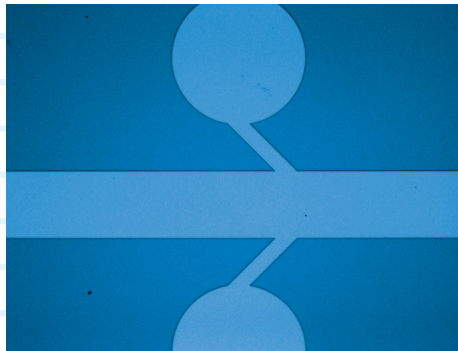
Led technology

Perfectly **monochromatic** exposure light source.

Cold UV source, prevents undesirable thermal effects.

Operate in **continuous or flashing mode**.

Benefits of UV-LED source: low power consumption, very long lifetime.



PERFORMANCES

Minimum feature size	< 2µm
Divergence half-angle	< 2°
Number of programmable cycles	10
Exposure cycles (continuous or cyclic)	From 1s to 1h59min
Contact modes	Hard (physical) or Soft (proximity) contact

EXPOSURE AREA

Maximum exposure area	4"	6"
Maximum substrate size	Ø 4"	Ø 6"
Maximum mask size	Ø 5" *	Ø 7" *
Substrate warm-up during exp.	< 1°C	
Compatible film photomask	Chrome and flexible film photomasks	
Compatible photoresists	Compatible with all UV photoresists sensitive to 365nm	

*Optional adaptaters available on request

UV-LED SOURCE

Available wavelengths	365nm +/- 5nm
Power density (RMS)	Min. 40mW/cm² +/- 5%
Exposure homogeneity	+/- 5%
LEDs Lifetime	> 10 000 hours

USAGE FEATURES

Color touchscreen	5.7"
Exposure modes	Continuous or Flashing
Included equipment	UV exposure area fully closed
Cleanroom type environment	Not required, due to its dust-proof protective cover

GENERAL SPECIFICATIONS

Size (L x W x Ht)	260 x 260 x 260mm
Weight	8,2kg / 18lbs
Power supply	100-110V / 220-240V - 50Hz
Power consumption	180W
Operating temperature	From 15° to 30°C / Stability +/- 1°C

