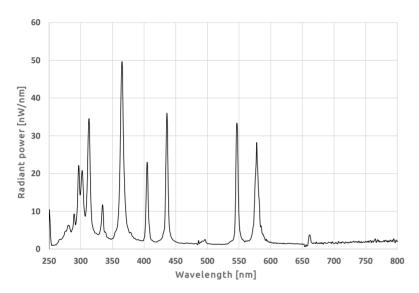
Deep UV illumination system



Lamp house with integrated ignition and ballast for 100 W HgXe lamps

With the LEJ deep UV illumination system you get an extremely stable UV radiation due to the low thermal drift and the very stable DC power supply by our ballast. Furthermore, our system allows reproducible mechanical adjustment of lamp, mirror and collector. Thus, the LEJ deep UV system is very suitable for wafer inspection and for illumination during optical review and analysis of photomasks, especially of structures and linewidths for defects and flaws.



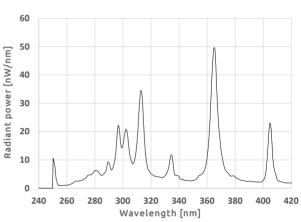


Fig. 1: Spectrum deep UV system without collector optics

Fig. 2: Spectrum deep UV system section UV range

HIGHLIGHTS

- No thermal drift
- Reproducible mechanical adjustment
- Ignition integrated in the lamp house
- Compact lamp house
- Safety circuit function
- Operating hours counter

APPLICATION AREAS

- Wafer inspection
- Analysis of photomasks
- Structure review
- Line width analysis
- Defect detection



Fig. 3: Deep UV illumination system

Deep UV illumination system



Lamp house with integrated ignition and ballast for 100 W HgXe lamps

Lamps house lh-qx-100.60	
Mounting	Lamp house over flange or ring dovetail Lamp via lamp adapter with x, y adjustment
Igniter	High voltage igniter integrated
Reflector	Mirror with x, y, z adjustment
Kollektor	with z adjustment
safety	According to EN 61010-1
Equipment protection class	I
Protection class	IP 20 (EN 60529)
Safety circuit	Shutdown at opening
Ambient temperature	0°C to + 40°C
Dimensions (HxWxD)	169 x 126 x154 mm
Weight	3.4 kg

Ballast ebqx 100-04		
Functions	100 W HgXe	
Lamp type	HAMAMATSU L8029-01, L2422-01	
Lamp connection	Socket M1 6+PE, Schaltbau	
safety	Safety circuit, overtemperature protection	
Input parameters		
Mains voltage	90 to 264 VAC	
Mains frequency	47 to 63 Hz	
Power consumption	170 VA	
Output parameters		
Operating mode	Constant current	
Power	Max. 130 W	
Output current	5.5 ± 0.3 A	
Open circuit voltage	60 ± 5 VDC	
Firing voltage	16.5 to 20 VDC	
Ignition voltage	External igniter	
Dimensions (WxHxD)	167 x 85 x 222 mm	
Weight	2.0 kg	

Ordering information Deep-UV illumination system		
Article	Item number	
Lamp house lh-qx 100.60	0000013780	
Ballast ebqx 100-04	000008708	
Ring dovetail/ Flange	Customer/application specific	
Collector adapter 4	Customer/application specific	
Lamp HAMAMATSU L8029 / L2422	0000013812 / 0000018455	

