



# primelite ALE/1

## High Performance Multispectral LED Light Engine

### ALE/1.2 – Exposure Subsystem (385/405nm)

#### Maximum Performance and Modularity

The ALE/1.2 combines radiation power and spectral characteristics of a mercury discharge lamp with the TCO and process benefits of LED technology.

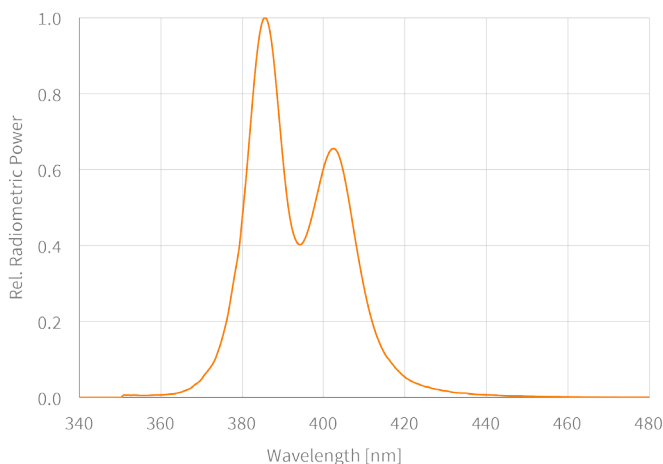
Profit from the benefits of LED technology with lower TCOs, long lifetime as well as unprecedented process and output stability. An intuitive user interface as well as extensive possibilities to set up and control exposure parameters help you to manage your processes.

Regarding the spectral composition of ALE/1 systems, there is an almost unrestricted choice: LED-Modules in the NUV, VIS, and NIR ranges are available. Exchanging LED-Modules is an easy task, which enables the end-user to adapt an ALE/1 setup to changing process requirements at any time.

Being a fibre-coupled light engine, the ALE/1 is designed to facilitate system integration into any production environment. Effective radiation is transmitted to the area of application using a flexible light guide.

#### Spectral Composition and Radiation Output

There are multiple 2 LED combinations available, depending on your application needs. Beside the shown 385/405nm setup there are, *i.a.*, 365/385nm, 365/405nm.



Radiation output* [in mW]	ALE/1.2		ALE/1.2+	
	Ø 5mm	Ø 6.5mm	Ø 6.5mm	Ø 8mm
Light guide				
385±10nm	5,100	5,900	9,200	10,800
405±10nm	3,600	4,200	6,500	7,600
Total 350-470nm	9,500	11,000	17,000	20,000

\* Measured at the end of light guide (length 1.5m) / ±10% deviation possible

#### Highlights

- Up to 20 Watts of UV
- Customized spectral composition
- Future-proof mercury-free light source
- LED process stability and TCO benefits
- Closed loop controlled output
- Easy to integrate in new and existing setups
- No external cooling required

#### System Properties and Specifications

Included emitters	2
Numerical aperture	0.6 (2α 70°)
Communication interfaces	Touch display, AUX, USB, PLC, and Fieldbus (e.g., CANopen)
Heat management	Internal water cooling
Dimensions (W H D)	28cm x 23cm x 40cm (11.0" x 9.1" x 15.7")
Weight	14.0kg (30.9lbs)
Power supply input	110-240VAC / 50-60Hz / 1,000W



**primelite**  
Advanced Light Engines

Primelite GmbH  
Tegernseer Platz 7  
81541 Munich  
GERMANY

Contact us:  
T +49 89 215 44 715  
E hello@primelite.de  
www.primelite.de