



primelite ALE/1

High Performance LED Light Engine

ALE/1.1 – Exposure Subsystem (365, 385, 405, or 435nm)

Maximum Performance and Modularity

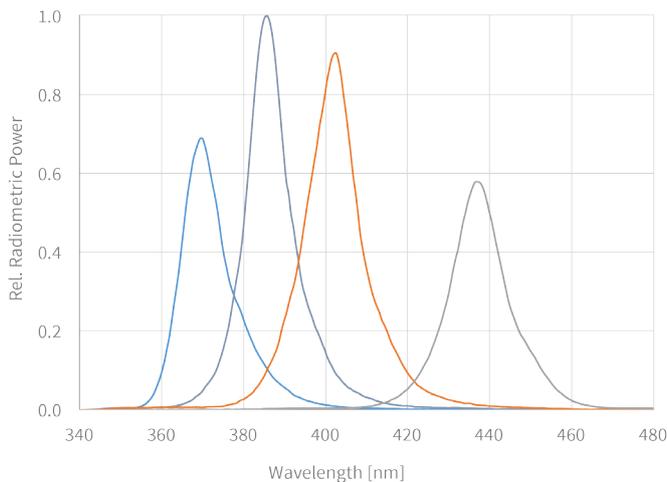
ALE/1.1 light engines provide high-intensity, monochromatic UV radiation output at spectra of 365, 385, 405, or 435nm – perfectly suited for different applications requiring UV exposure.

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.

Based on a platform concept the ALE/1 can be upgraded with up to 4 additional high performance LEDs. For instance, you may add 365nm and/or 405nm modules to your original 385nm configuration to extend the range of suitable resins. Exchanging LED-Modules is an easy task enabling end-users to adapt an ALE/1 setup to changing process requirements.

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



Radiation output* [in mW]	ALE/1.1		ALE/1.1+	
	Ø 5mm	Ø 6.5mm	Ø 6.5mm	Ø 8mm
Light guide				
365nm	5,500	6,500	9,500	11,500
385nm	7,500	9,000	14,000	16,000
405nm	8,000	9,500	14,500	17,000
435nm	5,000	6,000	9,000	10,500

* Full spectrum measured at the end of light guide (length 1.5m) / ±10% deviation possible

Highlights

- Up to 17 Watts of monochromatic UV
- 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	1
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



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