

ATLEX LR

A new generation of compact air-cooled, excimer lasers, designed for low duty cycle applications



ATLEX-LR main features:

- Laser head volume < 3L
- TMC (Total-Metal-Ceramic) vessel
- Integrated vacuum pump & halogen filter
- Totally air-cooled, active thermal management
- RS-485, RS232, USB and fiber optic interface for system integration
- Flushable optics holder
- Meets European CE-standard
- RoHS compliance

Characteristics:

- Optimized 193 nm laser performance for LA-ICP-MS
- Similar technical parameters as the ATLEX-I
- Extremely fast pulse rise-time and peak power density

ATLEX-LR Specifications:

Gas Medium	ArF
Wavelength (mm)	193
Max. Pulse Energy ¹ (mJ)	12
Max. stab. Energy (mJ)	10
Pulse Duration ² (ns)	5
Beam Dimensions ² (V × H) (mm)	4 × 6
Beam Divergence ² (V × H) (mrad)	1 × 2
Energy Stability (standard deviation) (%)	<2
Dimensions (L × W × H) (mm)	540 × 470 × 370
Weight (kg)	60
Cooling	Air
Power requirement	230 VAC / 6,3 A / 1 phase / 50-60 Hz

All specifications are typical data and subject to change without notice due to product improvements.

1. Measured at low rep.rates; allow 10% reduction of output energy and power for laser equipped with stabilization mode.

2. Typical value, FWHM