AQE Series 180mJ Diode Pumped Actively Q-switched Laser



The AQE series is a self-developed stack-pumped actively Q-switched laser by RealLight, which utilizes our proprietary diode laser arrays for multi-directional uniform pumping, delivering actively Q-switched laser output with high energy, high stability, and excellent beam uniformity. Featuring a hermetically sealed laser resonator and an integrated driving control circuit, this product is widely used in fields such as aesthetic medicine, radar ranging, precision machining and scientific research.

Key Features

- Multiple wavelengths available: 1064/532/355/266nm
- Conduction cooling, high stability
- Supports both internal and external trigger functions
- Excellent beam uniformity, stable pointing
- Wide-temperature operation products are available for customization

Applications

Spectrum analysis

Biomedicine

Laser manufacturing

Radar ranging

Scientific research

Technical Specifications

	Optica	ıl Paramete	rs		
Wavelength (nm)		1064	532	355	266
Repetition rate (Hz)		1~10			
Pulse energy (mJ)		180	100	50	20
Pulse width (ns)		≤10			
Power stabilty (RMS)		≤8%			
Full angle divergence typ. (mrad)	Horizontal @1/e ²	≤4			
	Vertical @1/e²	≤4			
Beam diameter (at output port, mm)		6			
Cooling method		Air cooling			
Laser dimensions (W×H×L,mm)		160×85×230			
Operation temperature (°C)		10~35			
Storage temperature (°C)		-20~60			
	Drive	r Parameter	'S		
Supply power voltage		24VDC			
Control interface		J30J~21P			
Power consumption (W)		200W			
Trigger mode		Trigger In/Out			

All the data in the above table are the typical values obtained from the tests at room temperature of 25 °C, and the final data is subject to the final test report.

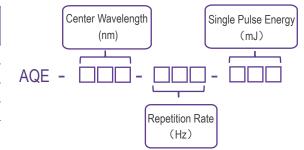




Order Information

Part Numbering Schema

Wavelength (nm)	Part Number	Repetition rate (Hz)	Pulse energy (mJ)
1064	AQE-1064-10-180	10	180
532	AQE-532-10-100	10	100
355	AQE-355-10-50	10	50
266	AQE-266-10-20	10	20



Mechanical Drawings (in mm)

