

# 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

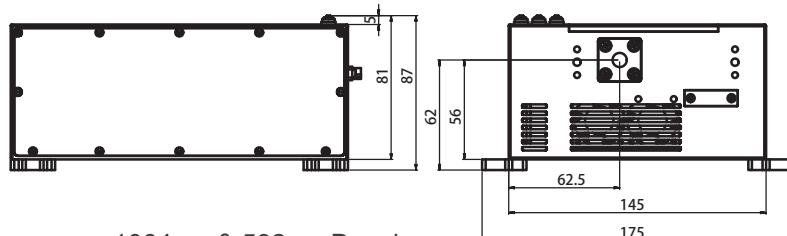
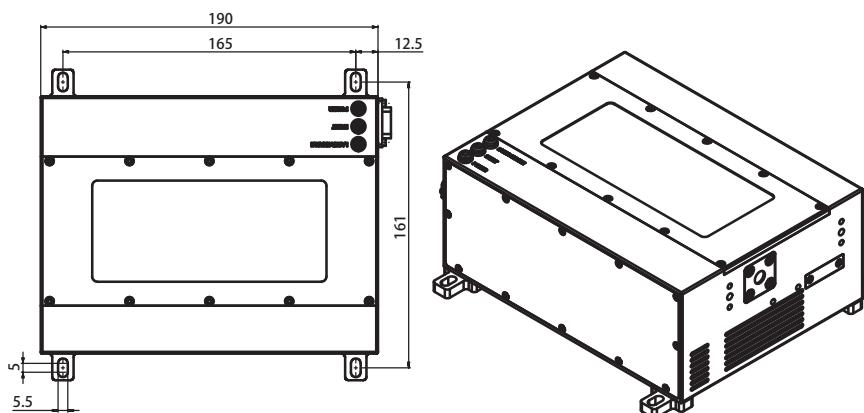
Optical Parameters							
Wavelength (nm)	1064	532	355	266			
Repetition rate (Hz)	1~10						
Pulse energy (mJ)	180	100	50	20			
Pulse width (ns)	$\leq 10$						
Power stability (RMS)	$\leq 8\%$						
Full angle divergence typ. (mrad)	Horizontal @ $1/e^2$	$\leq 4$					
	Vertical @ $1/e^2$	$\leq 4$					
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						
Driver Parameters							
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.

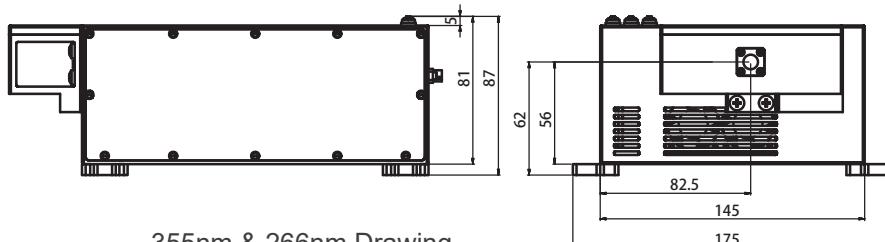
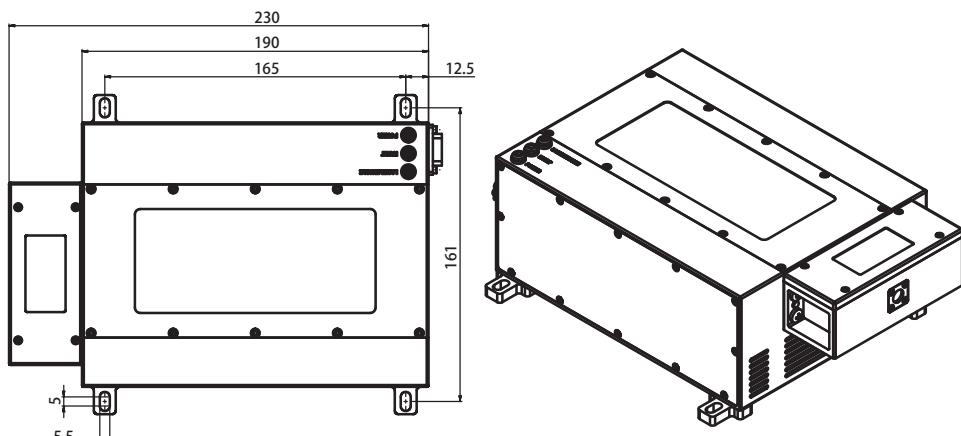
## Order Information

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)



1064nm & 532nm Drawing



355nm & 266nm Drawing

## Part Numbering Schema

