

## 223 nm LD Pumped All-Solid-State Electric-optic Q-switched Pulsed Laser EO-XS-223

**Model #:** EO-XS-223

**Description:** Diode-pumped all-solid-state Electric-optic modulated UV laser at 223 nm EO-XS-223 features high average power, high repetition rate, and short pulse duration.

**Application:** Scientific experiments, biology, instrumentation, fluorescence lifetime measurement, optical instrument, etc.

### Specifications

|   |   |
|---|---|
| Wavelength (nm)                                   | 223.5 ±1  |
| Operating Mode                                    | Electric-optic Q-switched                                     |
| Output Power (mW)                                 | 1 ~ 30<br>Average Power = pulse energy (μJ) x rep. rate (kHz) |
| Repetition Rate (kHz)                             | 10  |
| Pulse Width (ns)                                  | ~ 4 (at 10 kHz)   |
| Single Pulse Energy (uJ)                          | 1 ~ 3 (3uj @ 10kHz)   |
| Average Power Stability (rms)                     | 3%, 5%  |
| Peak Power (kW)                                   | ~ 0.75 (@10kHz)   |
| Warm-up Time (minutes)                            | <10   |
| Beam Divergence, Full Angle (mrad)                | <5.0  |
| Beam Diameter at aperture (1/e <sup>2</sup> , mm) | <8  |
| Beam Height from Base Plate (mm)                  | 68.5  |
| Cooling Method                                    | Air cooled  |
| Beam Operating Temperature (C°)                   | 10 ~ 35   |
| Power Supply (90-264VAC or 5V DC)                 | PSU-AOM (3U)  |
| Expected Lifetime (hours)                         | 10000   |
| Warranty Period                                   | 1 year  |

