

## 266 nm UV Passive Q-switched Pulse Laser MPL-F-266

**Model #:** MPL-F-266

**Description:** Passively Q-switched 266 nm UV laser, 0.1 ~ 5  $\mu$ J, 1 ~ 20 mW average power.

**Features:** Single pulse energy up to 5  $\mu$ J, TEC cooling, lightweight and compact, superior beam quality, long lifetime and high reliability, fiber coupling option available, controllable or uncontrollable option.

**Application:** UV curing, micro-electronics, CD carving, laser medical treatment, lab applications etc.



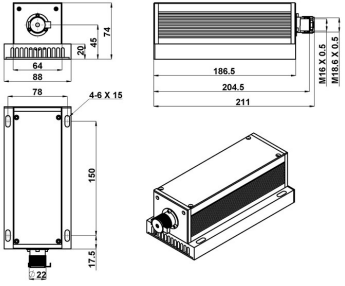
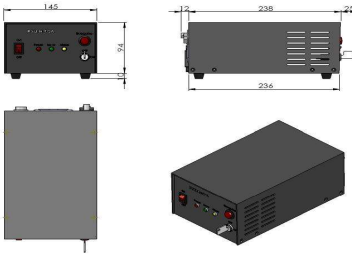
### Specifications

Wavelength (nm)		266 $\pm$ 1
Output Power (mW)		>1 ~ 20
Transverse Mode		Near TEM <sub>00</sub>
Operating Mode		Frequency conversion of Q- switched pulsed laser
Pulse Energy ( $\mu$ J)		0.1 ~ 5
Pulse Duration (ns)		~5
Peak Power (W)		20 ~ 1,000
Repetition Rates (KHz)	Fixed	Specified One rep. rate, such as 1k to 4kHz, with stable pulse energy, duration and period).
	External Trigger	Different rep. rate in the range of 1k to 4k can be obtained by input an external TTL signal.
	QCW	QCW state with one rap. Rate between 5k ~ 7kHz
Average Power (mW)		Pulse energy ( $\mu$ J) x rep. rate (kHz)
Average power stability (over 4 hrs.)		<5%, <10%
Warm-up Time (minutes)		<10
M <sup>2</sup> Factor		< 1.5
Spectral Purity		> 99%
Beam Parameters*		Elliptical 4:1; beam diameter ~ 2mm
Polarization Extinction Ratio		>100:1
Beam Height from Base Plate (mm)		45
Operating Temperature ( $^{\circ}$ C)		10 ~ 35
Power Supply (90-264VAC)		PSU-H-FDA
Expected Life Time (hrs.)		5000
Warranty Period		1 year

\*Because of the walk-off effect of nonlinear crystals, the beam quality at 266nm is not as good as that at 1064 or 532 nm.

### Ordering Information: MPL-F-266-A-B-C

A:average power	A: rep. rate	B:power stability
5 – up to 5 mW/1 $\mu$ J	1 - Fixed one rep. rate	10 – 10%
10 – up to 10 mW/2 $\mu$ J	2 - Variable 1 ~ 4000Hz	5 – 5%
20 – up to 20 mW/3 $\mu$ J	3 - QCW 5k~ 7k Hz	3 – 3%

<p>MPL-F-266L (with 266/532/1064nm laser included)</p>	<p>PSU-H-FDA</p>
 <p>211 (L)×88(W) ×74(H) mm<sup>3</sup>, 1.6 kg</p>	 <p>153 (L) ×155(W) ×92 (H) mm<sup>3</sup>, 1.5kg</p>
<p>MPL-F-266L (266/532/1064 nm outputs included)</p>	<p>PSU-H-FDA (drawing)</p>
	
<p>MPL-F-266 (266 nm only)</p>	<p>UV Prism</p>
