

NeXpectrum

Next Generation Laser Technology

New Laser Technology

NXP-VII Laser Series & Automation



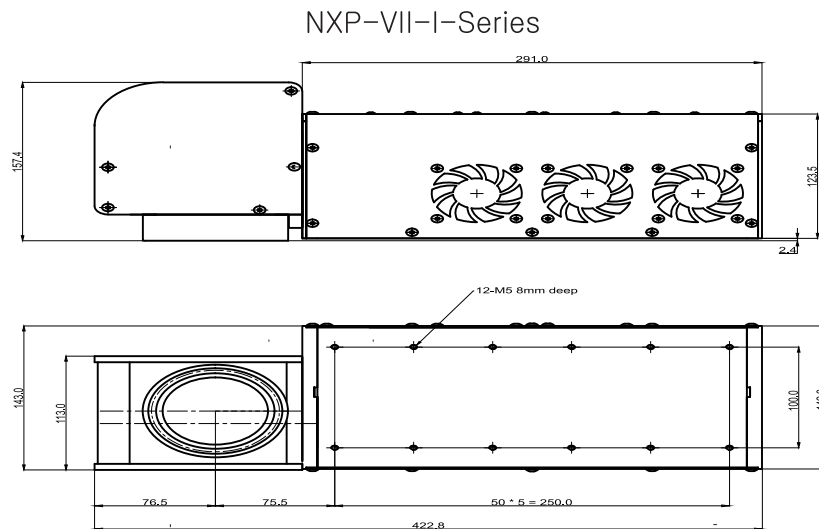
Nd:YVO4 Laser System

Laser Head



- DEDPSS (Diode End Direct Pumping Solid State) Laser
- Precise Marking Performance (10~25um Beam Spot)
- High Beam Density (Using 50~200um Single Emitter LD)
- Extremely Portable and Compact design (Fiberless)
- Competitive Price and Lifetime (Replaceable LD/100,000h)
- Compact Air Cooling System (High Temperature Stability)
- Two Year Warranty

Body Dimension



NXP-VII-I-Series

Wavelength	1064nm	
Pulse Peak Power	10~150KW	
Pumping Crystal	YVO4	
Cooling	TEC	
Aiming Diode	RED(632nm)	
Dimension	480mm x 160mm x 150mm	
Source LD	808nm Single Emitter	
Weight	About 12 Kg	
Power	CW 5W~40W	
Pulse Width	~ 10ns @25KHz	
Frequency	1 - 500 KHz	
Pulse Energy	~ 0.3 mJ @15KHz	
	Mode	TEM00
	M2	~ 1.05
BEAM	Stability	<+/-0.1 mrad
	Polarization	> 1:100
	Diameter	0.4~ 8 mm(option)
	Divergence	~ 2.5 mrad
Operating Temp.	10 - 35 C	
Humidity	10 - 90%	

Marking Area, FFL

(Unit : mm)

F-Theta Lens	FFL	Work Area
100 mm	99.98	70 X 70 Max.
160 mm	184.4	100 X 100 Max.
210 mm	265	150 X 150 Max.
254 mm	300.4	185 X 185 Max.
420 mm	535	300 X 300 Max.

Dual Laser

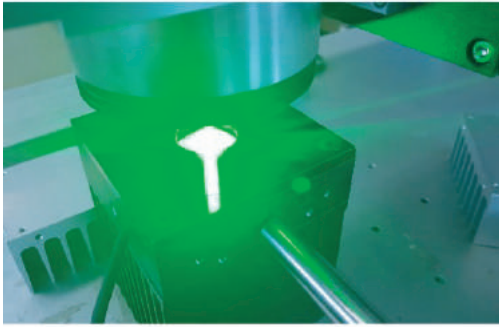


Scan Head Specification

TYPE	Normal(N)	High Speed (H)
Speed	1~1500mm/sec	1~6000mm/sec
Input Beam	10mm Max.	
Command	XY2-100 Digital protocol	

Customized Laser(Green, UV, CO2)

Green Laser(532nm)



NXP-VII-G-Series

Wavelength	532nm
Pulse Duration	>10ns
Power	2W
Pulse Energy	1mJ
Frequency	1 ~ 30KHz
Temp Range	0 ~ 40 °C
M2	1.2 (2.0 MAX)
Output Beam Dia.	3 ~ 4 mm

UV Laser(355nm)



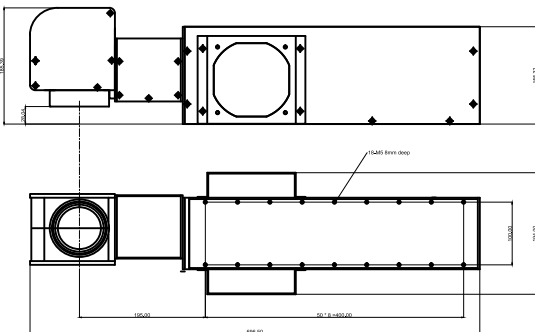
NXP-VII-U-Series

Wavelength	355nm
Pulse Duration	>10ns
Power	1W
Pulse Energy	1mJ
Frequency	1 ~ 20KHz
Temp Range	0 ~ 40 °C
M2	1.2 (2.0 MAX)
Output Beam Dia.	1.5 ~ 2 mm

CO2 Laser(10.6um)



Body Dimension

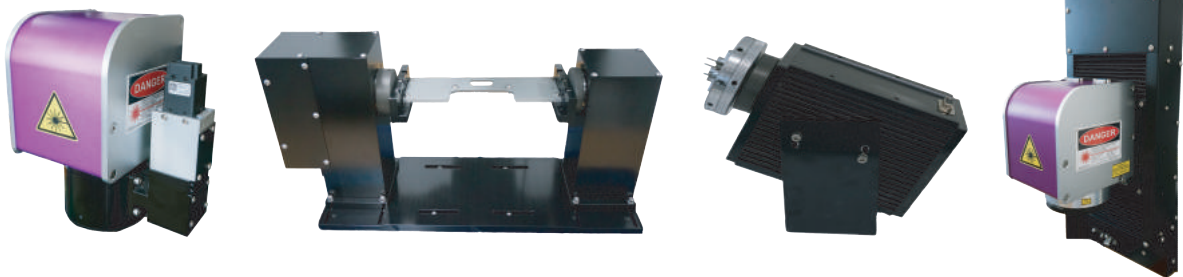


NXP-VII-C30

Wavelength	10.6um
Rise Time	<100M Sec.
Power	30W
Power Stability	+/-2% (after 2min Power ON)
Polarization	Linear
Cooling	Air
Weight	15Kg
M2	≤1.2
Output Beam Dia.	2±0.5mm(Source 기준)

※본 레이저 사양은 기본 공급 사양입니다.
각 공정에 따라 사양이 달라질 수 있습니다.

Automations



샘플사진 (Samples)



(주)넥스펙트럼

생산제품 : Diode Laser Source, Pumped Laser Source,
Laser System & Laser Automation

레이저기술센터: 경기도 군포시 고산로 148번길 17 군포IT밸리
A-1701호

전화 : (031)427-6212(대표)

Fax : (031)427-6214

E-mail : nexpectrum@nexpectrum.net

Web Site : www.nexpectrum.net

Blog: blog.naver.com/nexpectrum04