



KIMMON LASER SYSTEM

He-Cd Laser



**IK Series He-Cd Laser: 325nm (UV),
442nm (Blue) and Dual Wavelength**

Kimmon, the world's oldest and largest manufacturer of Helium Cadmium lasers, currently offers 18 models of our IK Series 325nm laser, 10 models of our IK Series 442nm laser, and 10 models of our IK Series Dual Wavelength laser. Our 35 years of He-Cd laser manufacturing experience allows Kimmon to provide He-Cd lasers with the highest; polarized output power, average lifetimes, and reliability. This superior performance over the past 3 decades along with the best warranty available has resulted in Kimmon having the largest worldwide installed base of He-Cd lasers.

Kimmon's He-Cd lasers are used in various applications, some of which are listed below. Please contact your nearest Kimmon office or agent for assistance in selecting the proper laser model for your application and budget.

Applications:

- Photoluminescence
- Raman Spectroscopy
- Biomedicine/Bioengineering
- Flow Cytometry
- Lithography/Grating Production
- Photopolymer Exposure
- Interferometry
- Printing/Plate making
- Precision measurement
- Holography
- Defect inspection
- CD Mastering

He-Cd LASER SPECIFICATIONS

442nm Lasers

Model	Wavelength (nm)	Specified Power (mW)	Mode (TEM)	Polarization	Polarization Ratio	Beam Diameter 1/e ² (mm)	Beam Divergence (mrad)	Noise (30KHz~10MHz) RMS(%)	Noise (30KHz~2MHz) P-P(%)	Power Stability @25°C (% 4hrs.
IK4123R-B	442	14	TEM ₀₀	Vertical	>500:1	0.9	0.5	2.0	5	±2.0
IK4153R-C		20				1.0				
IK4151R-C		25				1.1				
IK4301R-D		30				1.2	0.4	4.0	15	
IK4401R-D		50								
IK4601R-E		70				1.4	0.5	5.0	20	
IK4101R-F		100								
IK4121R-G		125								
IK4131I-G		150								
IK4171I-G		180								

325nm Lasers

Model	Wavelength (nm)	Specified Power (mW)	Mode (TEM)	Polarization	Polarization Ratio	Beam Diameter 1/e ² (mm)	Beam Divergence (mrad)	Noise (30KHz~10MHz) RMS(%)	Noise (30KHz~2MHz) P-P(%)	Power Stability @25°C (% 4hrs.
IK3023R-BR	325	2	TEM ₀₀	Random	>500:1	0.9	0.6	2.0	8	±2.0
IK3052R-BR		5	TEM _{MM}			1.5	0.8			
IK3031R-C		4	TEM ₀₀	1.0	0.4					
IK3072R-C		7	TEM _{MM}	1.8	1.0					
IK3083R-D		8	TEM ₀₀	1.0	0.4	6				
IK3101R-D		10		1.0	0.5					
IK3152R-D		15	TEM _{MM}	1.6	1.0	10				
IK3202R-D		25		1.2	0.4					
IK3151R-E		15	TEM ₀₀	1.2	0.4	3.0				
IK3252R-E		30	TEM _{MM}	1.8	1.0					
IK3201R-F		20	TEM ₀₀	1.2	0.4	4.0	15			
IK3401R-F		40	TEM _{MM}	1.8	1.0					
IK3452R-F		45		1.8	1.0					
IK3301R-G		30	TEM ₀₀	1.2	0.5					
IK3501R-G		50	TEM _{MM}	1.8	1.0					
IK3552R-G		55		1.8	1.0					
IK3802R-G		80	TEM _{MM}	1.8	1.0					
IK3102R-G		100		1.8	1.0					

Dual Wavelength Lasers

Model	Wavelength (nm)	Specified Power (mW)	Mode (TEM)	Polarization	Polarization Ratio	Beam Diameter 1/e ² (mm)	Beam Divergence (mrad)	Noise (30KHz~10MHz) RMS(%)	Noise (30KHz~2MHz) P-P(%)	Power Stability @25°C (% 4hrs.
IK5351R-D	325/442	5/35	TEM ₀₀	Vertical	>500:1	0.9/1.0	0.5	2.0/2.0	10/10	±2.0
IK5352R-D		10/50	TEM _{MM}			1.3/1.3	1.0			
IK5451R-E		10/50	TEM ₀₀			1.0/1.1	0.5	3.0/2.0		
IK5452R-E		15/65	TEM _{MM}			1.3/1.3	1.0			
IK5551R-F		15/60	TEM ₀₀			1.1/1.2	0.5	4.0/4.0	15/15	
IK5552R-F		25/100	TEM _{MM}			1.5/1.5	1.0			
IK5651R-G		20/80	TEM ₀₀			1.2/1.2	0.5			
IK5652R-G		30/120	TEM _{MM}			1.8/1.8	1.0			
IK5751I-G		30/110	TEM ₀₀			1.2/1.2	0.5	15/20		
IK5752I-G		40/150	TEM _{MM}			1.8/1.8	1.0			

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Power Stability 10-40°C (%)	Environmental Conditions	Pointing Stability (μrad)	Warm Up 90%Power (min)	Coherence Length (cm)	Spectral Bandwidth (GHz)	Mode Spacing (MHz)	Head Weight (Kg)	Power Supply Model	Power Requirements (VAC)	Maximum Current (A) at 100V _{in}	Power Consumption (W)	Power Supply Weight (Kg)
20	Temperature 10-40(°C) Humidity < 90%RH	±15	15	10	3	280	8.5	IM120C	Options 100/110/117 220/240	6.5	550	17.0
						238	11.0					
						±25	20	30				
		165	17.0									
		129	19.0									
								113				

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						238	11.0									
		±25	20	30	1	10	3	194					16.0	IM1301C		
								165					17.0			
								KR1801C					129	19.0		
													30	1	113	23.5
													10	3		
													30	1		
		10	3													
		30	1	8.0	720											

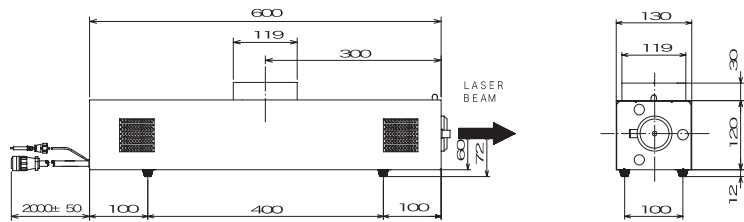
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				30	1	8.0	720					

Specifications subject to change without notice.

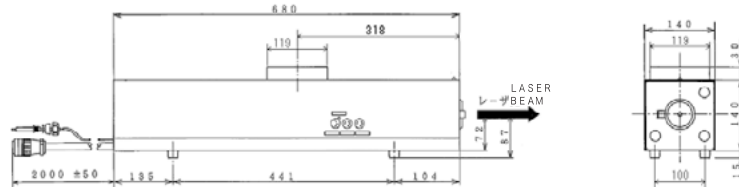
KIMMON LASER SYSTEM

Dimensions

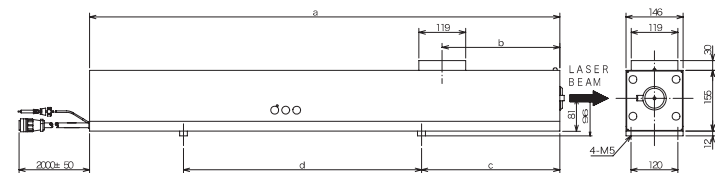
Laser Head



IK-B Laser Head



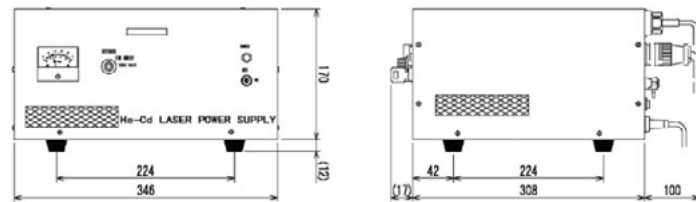
IK-C Laser Head



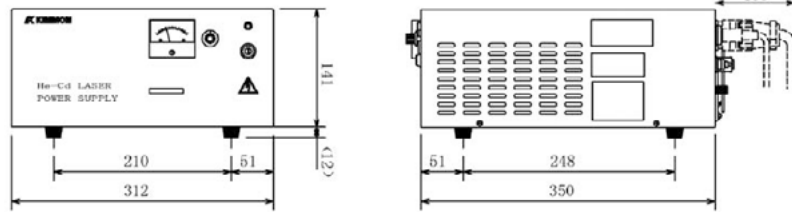
IK Series Laser Head

	a	b	c	d
IK****R-D	850	380	128	605
IK****R-E	1020	300	128	775
IK****R-F	1200	300	353	440
IK****R (I) -G	1420	461	353	660

Power Supply



IM120C, IM1301C Power Supply



KR1801C Power Supply

Unit:mm

