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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

KIMMON KOHA CO.,LTD.

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KIMMON LASER SYSTEM

He-Cd LASER SPECIFICATIONS

442nm Lasers

Model	Wavelength (nm)	Specified Power (mW)	Mode (TEM)	Polarization	Polarization Ratio	Beam Diameter 1/e2 (mm)	Beam Divergence (mrad)	Noise (30KHz~10MHz) RMS(%)	Noise (30KHz~2MHz) P-P(%)	Power Stability @25℃ (%) 4hrs.
IK4123R-B	442	14	TEM00	Vertical	>500:1	0.9	0.5	2.0	5	±2.0
IK4153R-C		20				1.0			10	
IK4151R-C		25								
IK4301R-D		30				1.1				
IK4401R-D		50								
IK4601R-E		70				1.2	0.4	4.0	15	
IK4101R-F		100								
IK4121R-G		125								
IK4131I-G		150								
IK4171I-G		180				1.4	0.5	5.0	20	

Power Stability 10-40℃ (%)	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 100Vin	Power Consumption (W)	Power Supply Weight (Kg)
20	Temperature 10-40(℃) 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			194	16.0	KR1801C		5.5	500	8.0
						165	17.0			7.0	610	
						129	19.0			7.5	660	
				30	1	113	23.5			8.0	720	

325nm Lasers

Model	Wavelength (nm)	Specified Power (mW)	Mode (TEM)	Polarization	Polarization Ratio	Beam Diameter 1/e2 (mm)	Beam Divergence (mrad)	Noise (30KHz~10MHz) RMS(%)	Noise (30KHz~2MHz) P-P(%)	Power Stability @25℃ (%) 4hrs.
IK3023R-BR	325	2	TEM00	Random		0.9	0.6	2.0	8	±2.0
IK3052R-BR		5	TEM MM			1.5	0.8			
IK3031R-C		4	TEM00	Vertical	>500:1	1.0	0.4			
IK3072R-C		7	TEM MM			1.8	1.0			
IK3083R-D		8	TEM00			1.0	0.4		6	
IK3101R-D		10					0.5		10	
IK3152R-D		15	TEM MM			1.6	1.0			
IK3202R-D		25								
IK3151R-E		15	TEM00			1.2	0.4	3.0		
IK3252R-E		30	TEM MM			1.8	1.0			
IK3201R-F		20	TEM00			1.2	0.4	4.0	15	
IK3401R-F		40								
IK3452R-F		45	TEM MM			1.8	1.0			
IK3301R-G		30	TEM00			1.2	0.5			
IK3501R-G		50								
IK3552R-G		55	TEM MM			1.8	1.0			
IK3802R-G		80								
IK3102R-G		100								

Power Stability 10-40℃ (%)	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 100Vin	Power Consumption (W)	Power Supply Weight (Kg)
20	Temperature 10-40(℃) 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			194	16.0	IM1301C		7.5	650	8.0
								KR1801C		5.5	500	
						165	17.0			7.0	610	
				30	1	129	19.0			7.5	660	
				10	3							
				30	1	113	23.5			8.0	720	
				10	3							
				30	1							

Dual Wavelength Lasers

Model	Wavelength (nm)	Specified Power (mW)	Mode (TEM)	Polarization	Polarization Ratio	Beam Diameter 1/e2 (mm)	Beam Divergence (mrad)	Noise (30KHz~10MHz) RMS(%)	Noise (30KHz~2MHz) P-P(%)	Power Stability @25℃ (%) 4hrs.
IK5351R-D	325/442	5/35	TEM00	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	TEM00			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	TEM00			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	TEM00			1.2/1.2	0.5			
IK5652R-G		30/120	TEM MM			1.8/1.8	1.0			
IK5751I-G		30/110	TEM00			1.2/1.2	0.5		15/20	
IK5752I-G		40/150	TEM MM			1.8/1.8	1.0			

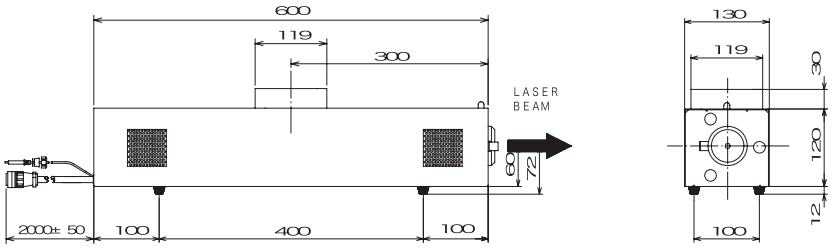
Power Stability 10-40℃ (%)	Environmental Conditions	Pointing Stability (μrad)	Warm Up 90%Power (min)	Coherence Length (cm)	Spectral Bandwidth (GHz)	Mode Spacing (MHz)	Head Weight (Kg)	Power Supply Model	Power Requirements (VAC)	Maximum Current (A) at 100Vin	Power Consumption (W)	Power Supply Weight (Kg)
20	Temperature 10-40(℃) Humidity < 90%RH	±25	20	10	3	194	16.0	KR1801C	Options 100/110/117 220/240	5.5	500	8.0
						165	17.0			7.0	610	
						129	19.0			7.5	660	
				30	1	113	23.5			8.0	720	

Specificatinos subject to change without notice.
For special requirements,please contact kimmon or your nearest distributor.

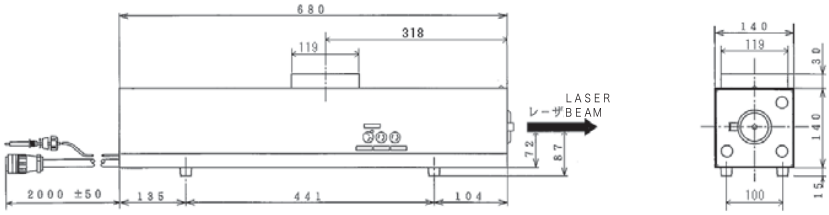
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Dimensions

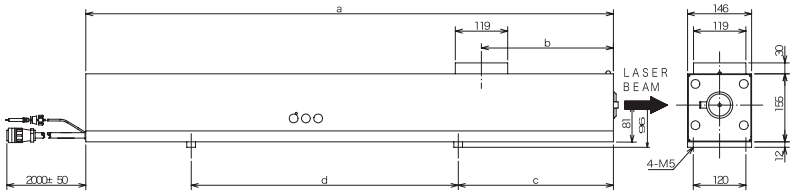
Laser Head



IK-B Laser Head



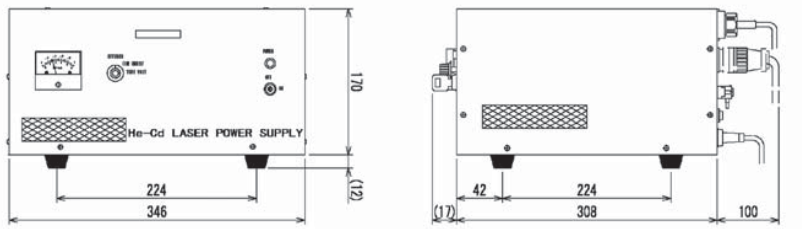
IK-C Laser Head



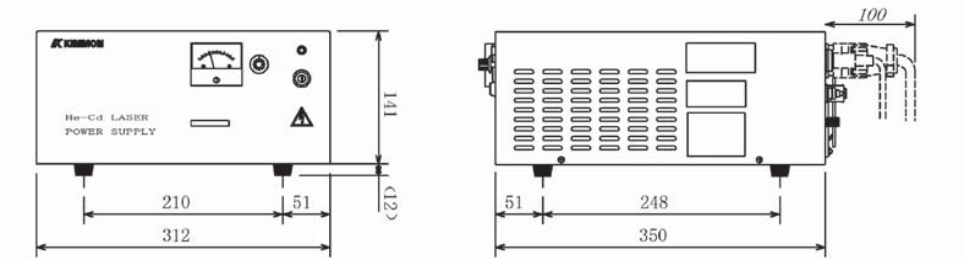
IK Series Laser Head

	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

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