

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

Power Stability 10-40°C (%)	Environmental Conditions	Pointing Stability (μ rad)	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(°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					
20	Temperature 10-40(°C) Humidity < 90%RH	±25	20	30	1	194	16.0	KR1801C	Options 100/110/117 220/240	5.5	500	8.0
						165	17.0					
						129	19.0					
						113	23.5					
						113	23.5					

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°C (%) 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	3.0	10			
IK3072R-C		7	TEM MM			1.8	1.0					
IK3083R-D		8	TEM00			1.0	0.4					
IK3101R-D		10	TEM00			1.0	0.5					
IK3152R-D		15	TEM MM			1.6	1.0	1.2	0.4		4.0	15
IK3202R-D		25	TEM MM									
IK3151R-E		15	TEM00			Vertical	>500:1	1.8	1.0		4.0	15
IK3252R-E		30	TEM MM					1.2	0.4			
IK3201R-F		20	TEM00					1.8	1.0			
IK3401R-F		40	TEM00					1.2	0.4			
IK3452R-F		45	TEM MM	1.8	1.0							
IK3301R-G		30	TEM00	1.2	0.5			1.8	1.0		4.0	15
IK3501R-G		50	TEM MM									
IK3552R-G		55	TEM MM									
IK3802R-G		80	TEM MM									
IK3102R-G		100	TEM MM	1.8	1.0							

Power Stability 10-40°C (%)	Environmental Conditions	Pointing Stability (μ rad)	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(°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					
20	Temperature 10-40(°C) Humidity < 90%RH	±25	20	30	1	194	16.0	KR1801C	Options 100/110/117 220/240	5.5	500	8.0
						165	17.0					
						129	19.0					
						113	23.5					
						113	23.5					

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°C (%) 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	15/15	
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	15/20	
IK5552R-F		25/100	TEM MM			1.5/1.5	1.0			
IK5651R-G		20/80	TEM00			1.2/1.2	0.5	1.8/1.8	1.0	
IK5652R-G		30/120	TEM MM			1.8/1.8	1.0			
IK5751I-G		30/110	TEM00			1.2/1.2	0.5			
IK5752I-G		40/150	TEM MM			1.8/1.8	1.0			

Power Stability 10-40°C (%)	Environmental Conditions	Pointing Stability (μ rad)	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(°C) 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					
20	Temperature 10-40(°C) Humidity < 90%RH	±25	20	30	1	129	19.0	KR1801C	Options 100/110/117 220/240	7.5	660	8.0
						113	23.5					
						113	23.5					

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

Dimensions

