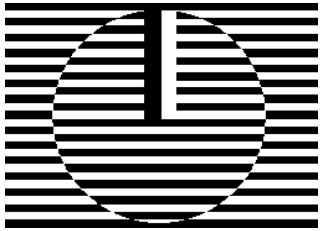


Argon/ Krypton Ion-Laser LGN-Series

Laser	LGN-106M4		LGN-106M5			LGN-512		LGN-513		LGN-514	
Gasfilling	Argon/ Krypton/ Mixed Gas		Argon/ Krypton/ Mixed Gas			Argon		Argon		Argon	
Wavelength (nm)	Output Power		Output Power			Output Power		Output Power		Output Power	
Multi-Mode	457,9 - 514,5	> 4 Watt	457,9 - 514,5	Typ 1 > 4 Watt	Typ 2 > 5 Watt						
	647,1 - 676,0	> 1 Watt	647,1 - 676,0	> 1 Watt	> 1 Watt						
	476,2 - 647,1	> 1 Watt	476,2 - 647,1	> 1 Watt	> 1 Watt						
Single-Mode	488,0 - 514,5	> 1 Watt	488,0 - 514,5	> 1 Watt	> 1 Watt	457,9 - 514,5	> 12 Watt	334,4 - 351,1	> 1 Watt	457,9 - 514,5	> 0,05 - 0,1 Watt
						457,9	> 1 Watt				
						488,0	> 5 Watt	351,1	> 0,25 Watt	488,0	> 0,025 Watt
Single-Frequency						514,5	> 5 Watt	363,8	> 0,25 Watt	514,5	> 0,025 Watt
						488,0	> 2 Watt				
						514,5	> 2,5 Watt				
Polarisation	457,9 - 514,5	random	457,9 - 514,5	random		100 : 1				100 : 1	
	647,1 - 676,0	random	647,1 - 676,0	random							
	476,2 - 647,1	random	476,2 - 647,1	random							
	488,0 - 514,5	100 : 1	488,0 - 514,5	100 : 1							
Divergence	< 1,5 mRad		Multi-Mode < 1,2 mRad			< 0,5 mRad				< 0,95 mRad	
Single-Mode < 0,6 mRad											
Beam - Diameter	< 3 mm		< 3 mm			< 2 mm				< 1,2 mm	
Output-Stability	Power Supply unstabilised		Power Supply unstabilised			< 2 % in 0,5 hrs				< 1 % in 0,5 Std.	
Mains Supply	380/ 220 VAC +/- 10%, 50 Hz										
Power Consumption	< 16 KVA		< 16 KVA			< 40 KVA				< 3,5 KVA	
Cooling	Water										
Warranted Lifetime of Lasertube	> 500 hrs		> 1500 hrs			> 500 hrs				> 1000 Std.	
Average Lifetime	> 5000 hrs		> 10000 hrs					> 5000 hrs			



Laser	LGN-106M4	LGN-106M5	LGN-512	LGN-513	LGN-514
Dimensions and Weights					
Laserhead	1040 x 290 x 251 mm / 50 Kg	1075 x 195 x 135 mm / 35 Kg	1800 x 220 x 195 mm / 56 Kg		550 x 170 x 144 mm / 8 Kg
Power Supply	500 x 500 x 140 mm / 31 Kg	500 x 500 x 140 mm / 34 Kg	545 x 690 x 1028 mm / 260 Kg		
Filter	450 x 150 x 200 mm / 7 Kg	250 x 150 x 150 mm / 7 Kg			
Rectifier					495 x 400 x 137 mm / 20 Kg
Current Stabiliser					496 x 400 x 137 mm / 11,5 Kg

The Argon/ Krypton lasers of the LGN-series are offering Multi-Mode, Single-Mode and Single-Frequency operation in the visible spectrum at 457,9 - 676,4 nm depending on the model. The model LGN-513 is intended for the UV-spectral range at 334,4 - 351,1 nm.

LGN-106

As Argon/ Krypton or Mixed Gas ion-laser this system is a costeffective solution for laser light in the blue to red spectrum, but also as white-light-laser. At a low price and comfortable operation as well as maintenance this system provides for a wide range of application.

LGN-106M5

High reliability and a convenient size to performance ratio at an output power up to 5 Watts in Multi-Mode operation distinguish the LGN-106M5. The metal-ceramic lasertube with integrated laser mirrors provides for a very low maintenance operation. As a specialty in comparison to other lasers of this class, this laser may be operated in the vertical position.

LGN-512, LGN-513 UV

High stability with output power in the visible spectrum of 12 Watts in total and in the UV-range upto 1 Watt are exhibited by these Argon-Lasers. Wavelength tunable models with thermally compensated Wavelength-Selector as well as Single-Mode operation are available. The Resonator is mechanically decoupled from the laser head housing, the Berillium-ceramic lasertube is terminated with cristalline Quarz Brewster-windows. An integrated safety-system protects from operational faults and external influences.

LGN-514

The Compact-Model LGN-514 provides in the class of output powers upto 500 mW, a superior pointing stability and signal to noise behaviour in comparison to the normally utilised forced-air cooled systems.