

## LGN-225A, LGN-226A, LGN-223, LGN-223-1, LGN-115, LGN-118 LASERS

Lasers of GN series represent gas lasers of continuous operation mode and emission in the red spectral region at 0.63 $\mu$ m wavelength; single-mode (TEM<sub>00</sub>) and multimode (TEM<sub>mn</sub>) with emission power from 15mW to 80mW having polarized and non-polarized emission.

These lasers can be used in control and measuring equipment, heterodyne systems, polygraphic industry, holography, medical equipment and in some other processing and laboratory installations as a source of coherent monochromatic emission.

The lasers have simple design and are convenient in service. They comprise of laser head and high-voltage power supply.

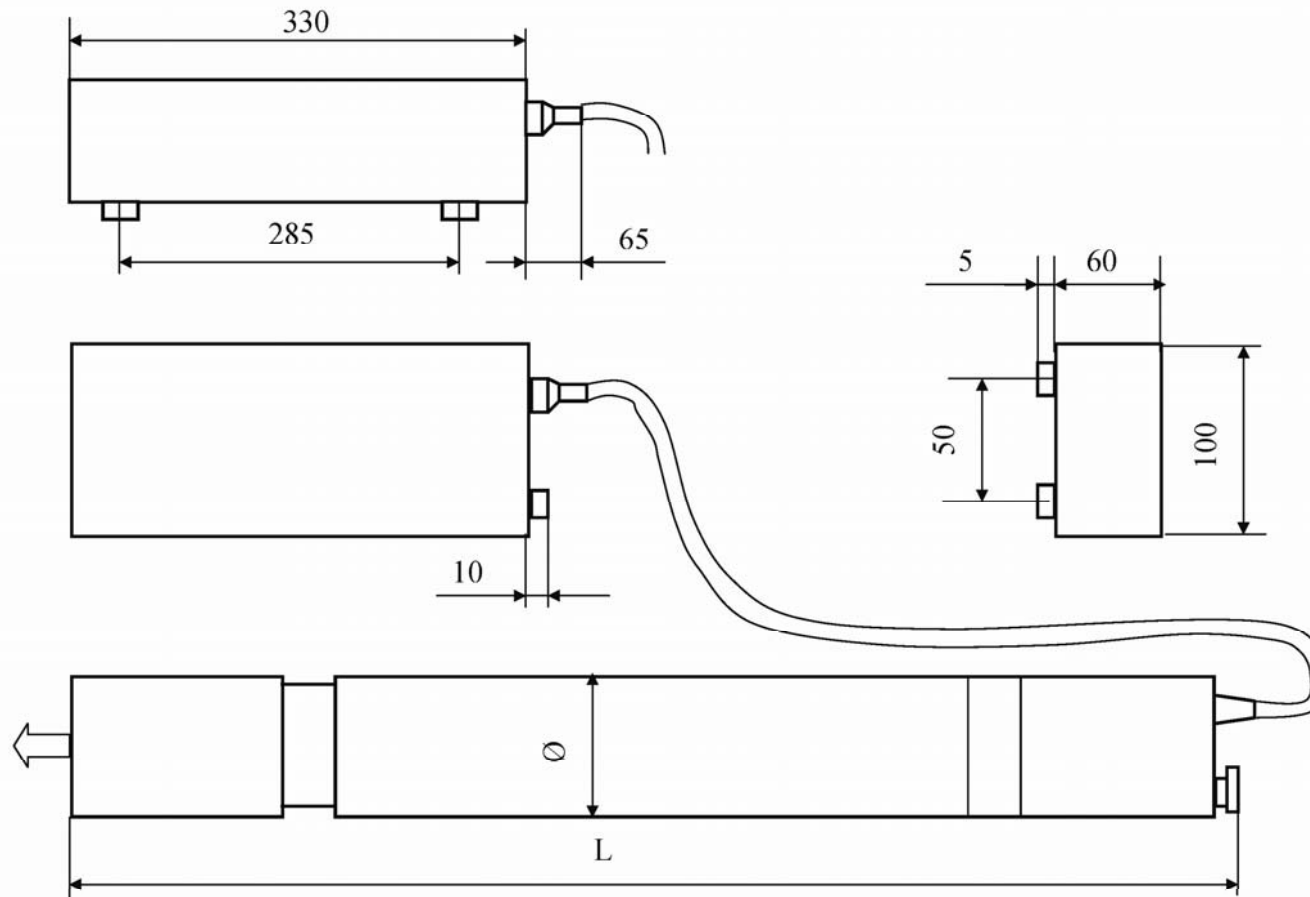
A coaxial tube with cold cathode is put at the basis of the laser head design. Thermoresistant mirrors in the tube are attached by means of hard-sealing method, which allows to involve progressive high-temperature processes in the technology of its manufacturing. All these factors provide high reliability, long lifetime and stable output parameters of the lasers as a whole.



Parameters	LGN-225A	LGN-226A	LGN-223	LGN-223-1	LGN-115	LGN-118
<b>Output power, mW, not less</b>	2.0	1.5	10	10	15	25
<b>Spectral structure</b>	TEM <sub>00</sub>				TEM <sub>mn</sub>	
<b>Polarization, not less</b>	1:1	100:1	1:1	100:1	1:1	
<b>Beam diameter, mm, not more</b>	0.6		1.0		2.5	
<b>Beam divergence, mrad, not more</b>	1.5		1.3		3.0	
<b>Power consumption, W, not more</b>	15		55			65
<b>Dimensions of laser head, mm, not more</b>	Ø30x196		Ø44x485		Ø44x500	Ø44x685
<b>Dimensions of power supply, mm, not more</b>	150x60x170 (110x35x85*)		100x65x330			
<b>Mass, kg, not more (laser head/power supply)</b>	0.23 / 1.2 (0.4*)		0.85 / 2.5			1.5 / 2.5

\* - built-in power supply

## Dimensional drawing



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