



Special Selected Models

LASOS Model Selection Type	P [mW] TEM ⁰⁰	Beam Diameter [mm]	Selection Criteria**	Dimension Ø x L [mm]
▶ LGR 7607	> 2.0	0.7	PS, SL, LM	22.6 x 193
▶ LGK 7607	> 2.0	0.7	PS, SL, LM	31.7 x 241.3
▶ LGR 7609	> 2.0	0.56		23.6 x 189.5
▶ LGR 7609-01	> 2.5	0.56		23.6 x 189.5
▶ LGR 7609-02	> 2.0	0.56	PS, SL	23.6 x 189.5
▶ LGR 7609-03	> 2.5	0.56	PS, SL	23.6 x 189.5
▶ LGR 7609-S01	> 2.0	0.56	PS, SL, MF	23.6 x 189.5
▶ LGR 7608 P	> 1.5	0.63	SL	22.6 x 213.3
▶ LGR 7610 P	> 2.0	0.63	SL	22.6 x 213.3
▶ LGK 7608 P	> 1.5	0.63	SL	31.7 x 241.3
▶ LGK 7610 P	> 2.0	0.63	SL	31.7 x 241.3
▶ LGR 7637	3.5...3.8	0.49	SL	30 x 255
▶ LGK 7637	3.5...3.8	0.49	SL	35 x 280
▶ LGR 7695	> 0.75	0.49	SF random	22.6 x 130
▶ LGR 7695-01	> 0.75	0.49	SF 1,5-2,3 MHz	22.6 x 130
▶ LGR 7695-02	> 0.75	0.49	SF 2,3-2,8 MHz	22.6 x 130
▶ LGR 7695-03	> 0.75	0.49	SF 2,8-3,8 MHz	22.6 x 130
▶ LGR 7695-04	> 0.75	0.49	SF >3,8 MHz	22.6 x 130

Special models

LGR 7627 BF / LGR 7660 BF01	LG series
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Laser tube with Brewster window termination for operation with external mirrors

1 mW / 5 mW output power with appropriate mirrors. Single mode and multimode operation possible.

Applicable for science and education



For details visit our website www.lasos.com or contact our sales team.

Glossary of terms

Side lines (SL):

Unwanted emission besides the nominal wavelength value, often disturbing in spectroscopy and interferometry. Can be suppressed by special mirror technology.

Polarization switching (PS):

Sudden changes of the polarization of different modes especially in short tubes. Particularly disturbing when He-Ne laser tubes are used in frequency stabilized operation. Can be eliminated by special selection process.

Two longitudinal modes (LM):

Tube supports exact two orthogonally polarized longitudinal modes. Required for special methods of frequency stabilization.

Magnetic field stability (MF):

The above characteristics are also guaranteed in the presence of a strong magnetic field up to 3 G

Split frequencies (SF):

Frequency split of He-Ne laser modes in the presence of a strong magnetic field (> 200 G). Can be used for obtaining extremely high frequency stability. LASOS® has been successful in developing tubes with specific split frequencies for defined magnetic fields.

LASOS

For worldwide photonics

LASOS Lasertechnik GmbH
Franz-Loewen-Str. 2, 07745 Jena
Germany

Phone: +49 3641 2944 0
Fax: +49 3641 2944 300
info@lasos.com

www.lasos.com



Subject to technical modifications and error. Similar images. Status as of 04.04.16

Europe

Benelux

Te Lintelto Systems BV
Phone: +31 316 340804
Fax: +31 316 340805
sales@tlsbv.nl
www.tlsbv.nl

Czech/Slovakia Republic

LAO industrial systems, s.r.o.
Phone: +42 241 046800
Fax: +42 241 046850
info@lao.cz
www.lao.cz

Estonia / Latvia / Lithuania

UAB Altechna
Phone: +370 5 2725738
Fax: +370 5 2723704
instruments@altechna.com
www.instruments.altechna.com

France

ACAL BFI France SAS
Phone: +33 1 60795900
Fax: +33 1 60798901
info.fr@bfioptilas.com
www.bfioptilas.com

Italy

Laser Optronic Srl
Phone: +39 2 574651
Fax: +39 2 57410127
lop@laseroptronic.it
www.laseroptronic.it

Poland

Lambda System
Phone: +48 22 622 20 14
Fax: +48 22 622 20 14
office@lambdasystem.pl
www.lambdasystem.pl

Russia

NANOINTEK Ltd.
Tel.: +7 495 332 00 39
Fax: +7 495 332 06 20
info@nanointek.com
www.nanointek.ru

Spain

ACAL BFI Iberia
Phone: +34 91 453 11 60
Fax: +34 91 662 68 37
Mobile: +34 649 446 739
eva.plana@acalbfi.es
www.acalbfi.es

**Sweden/Norway/
Denmark/Finland**

Optonyx AB
Phone: +46 855 111410
Fax: +46 855 111415
info@optonyx.com
www.optonyx.com

United Kingdom/Ireland

Lambda Photometrics Limited
Phone: +44 1582 764334
Fax: +44 1 582 712084
contact@lambdaphoto.co.uk
www.lambdaphoto.co.uk

America

USA/Canada/Mexico

LASOS US Sales
Phone: +1 760 305 8265
us-sales@lasos.com
www.lasos.com

Asia

China/Hong Kong

Universal (Hong Kong) Technology Co., Ltd. Beijing Office
Phone: +86 10 51690388407
Fax: +86 10 51690100
jacky.zhang@universaltechno.cn
www.universaltechno.cn

India

Photonics Marketing Company
Phone: +91 22 3265 7126
Fax: +91 22 2566 1863
info@photonics-marketing.com
www.lasos.com

Japan

Japan Laser Corporation
Phone: +81 3 52850861
Fax: +81 3 52850860
jlc@japanlaser.co.jp
www.japanlaser.co.jp

Korea

DongWoo Optron Co., Ltd.
Phone: +82 31 7650300
Fax: +82 31 7650222
optron@optron.co.kr
www.optron.co.kr

South East Asia

Zugo Photonics Co Ltd.
Phone: +65 6844 0055
Fax: +65 6844 0655
kelvin.ng@zugophotonics.com
www.zugophotonics.com

Taiwan

Tayhwa Technology Co., Ltd.
Phone: +886 2 23569737
Fax: +886 2 23569659
tayhwa@tayhwa.com.tw
www.tayhwa.com.tw

LASOS® He-Ne laser series



Helium-Neon laser modules
Helium-Neon laser tubes
Helium-Neon laser power supplies





He-Ne laser modules



He-Ne laser tubes



He-Ne laser power supplies

LASOS® He-Ne laser series

The LASOS® Helium Neon laser tubes and modules have a robust mechanical design, excellent beam quality and long service life of up to 30,000 hours. Standard and customized models are available in a large variety in the spectral range red, green and yellow with output powers between 0.5 and 20 mW. Options are single mode or multimode, randomly or linear polarized and Brewster window tubes for educational and scientific purposes.

All laser models can be provided with adequate OEM and laboratory power supplies, meeting the European and American standards with the availability of approvals and certificates CDRH, IEC, CSA, CE, TÜV, UL.

The Helium Neon lasers are designed for multipurpose applications such as confocal laser scanning microscopy, spectroscopy, digital imaging, metrology, industrial measurement, positioning, alignment, aiming, testing, code scanning, medical, basic research, education or entertainment.

Customized solutions for specific applications can be provided.

- Designed for long life, low noise and high stability

- Excellent beam quality and pointing stability

Options:

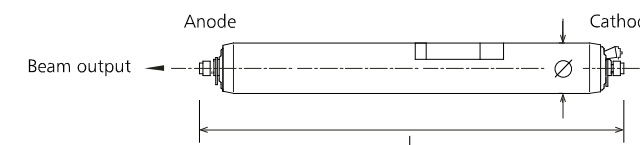
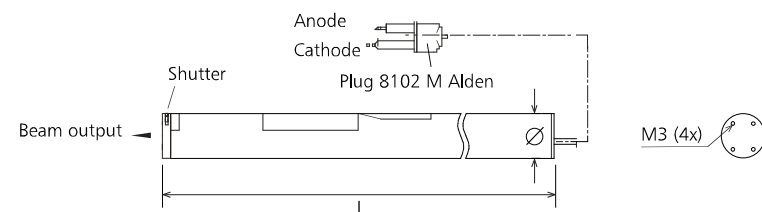
- OEM power supplies
- Laboratory power supplies
- Fiber coupling
- He-Ne tubes with Brewster windows for educational purposes
- Customized modifications

Model	λ [nm]	P [mW] TEM ⁰⁰	Beam Diameter [mm]	Operating Voltage [V]	Operating Current [mA]	Dimension Ø x L [mm]	Model	Dimension Ø x L [mm]	Power Supply
LGR 7656 ¹	632.8	0.5	0.34	1050	2.8	22.5 x 118.6	LGR 7656 ¹	22.5 x 118.6	LGN 74626 A LGN 7464
▶ LGK 7650-2	632.8	0.5	polarized 0.49	1300	3.5	35 x 170	▶ LGR 7650 ¹	25.25 x 146	LGN 7467 A LGN 7465 SAN 7467 A SAN 7467 AJ
▶ LGK 7655	632.8	0.6	0.49	1300	3.5	35 x 170	▶ LGR 7655	25.25 x 146	LGN 7467 A LGN 7465 SAN 7467 A SAN 7467 AJ
▶ LGK 7655 S	632.8	1	0.49	1300	3.5	35 x 170	▶ LGR 7655 S	25.25 x 146	LGN 7467 A LGN 7465 SAN 7467 A SAN 7467 AJ
▶ LGK 7608	632.8	1.5	0.63	1700	4.9	31.7 x 241.3	▶ LGR 7608	22.6 x 213.3	LGN 7461 A LGN 7463 SAN 7461 A SAN 7461 AJ
▶ LGK 7610	632.8	2	0.63	1700	4.9	31.7 x 241.3	▶ LGR 7610	22.6 x 213.3	LGN 7461 A LGN 7463 SAN 7461 A SAN 7461 AJ
▶ LGK 7610 H ¹	632.8	2	0.63	1700	4.9	31.7 x 241.3	▶ LGR 7610 H ²	22.6 x 213.3	LGN 7461 A LGN 7463 SAN 7461 A SAN 7461 AJ
▶ LGK 7672	632.8	2	0.75	1300	5.0	35 x 280	▶ LGR 7621 S	30 x 255	LGN 7461 A LGN 7463 SAN 7461 A SAN 7461 AJ
▶ LGK 7634	632.8	2	polarized 0.75	1500	5.0	35 x 280	▶ LGR 7634	30 x 255	LGN 7461 A LGN 7463 SAN 7461 A SAN 7461 AJ
▶ LGK 7627-8	632.8	5	0.8	2400	6.5	45 x 388	▶ LGR 7627 ³	36.5 x 350	LGN 7460 A LGN 7462 SAN 7460 A SAN 7460 AJ
▶ LGK 7628	632.8	5	polarized 0.8	2400	6.5	45 x 400	▶ LGR 7628	36.5 x 350	LGN 7460 A LGN 7462 SAN 7460 A SAN 7460 AJ
▶ LGK 7621 MM	632.8	5	multimode 1.4	1650	6.5	35 x 280	▶ LGR 7621 MM	30 x 255	LGN 7460 A SAN 7460 A1
▶ LGK 7627 MM	632.8	10	multimode 0.7	3000	6.5	45 x 400	▶ LGR 7627 MM	36.5 x 350	LGN 7460 A LGN 7462 SAN 7460 A SAN 7460 AJ
▶ LGK 7653-8	632.8	10	0.7	3000	6.5	45 x 505		LGN 7470 A4 SAN 7470 A4 SAN 7470 A4J	
▶ LGK 7654-8	632.8	10	polarized 0.7	3000	6.5	45 x 505		LGN 7470 A4 SAN 7470 A4 SAN 7470 A4J	
▶ LGK 7654-13	632.8	10	polarized 0.7	3000	6.5	44.25 x 490		LGN 7470 A4 SAN 7470 A4 SAN 7470 A4J	
▶ LGK 7665	632.8	15	1.0	3700	7.0	45 x 637		LGN 7470 A SAN 7470 A SAN 7470 A4	
▶ LGK 7665 P	632.8	15	polarized 1.0	3700	7.0	45 x 637		LGN 7470 A SAN 7470 A SAN 7470 A4	
▶ LGK 7665-18	632.8	18	1.0	3700	7.0	45 x 637		LGN 7470 A SAN 7470 A SAN 7470 A4	
▶ LGK 7665 P18	632.8	18	polarized 1.0	3700	7.0	45 x 637		LGN 7470 A SAN 7470 A SAN 7470 A4	
▶ LGK 7665-20	632.8	20	1.0	3700	7.0	45 x 637		LGN 7470 A SAN 7470 A SAN 7470 A4	
▶ LGK 7512 P	594	2	polarized 0.79	2400	6.5	45 x 537		LGN 7460 A LGN 7462 SAN 7460 A SAN 7460 AJ	
▶ LGK 7786 P50	543	0.5	polarized 0.85	2400	6.5	45 x 485		LGN 7460 A LGN 7462 SAN 7460 A SAN 7460 AJ	
▶ LGK 7786 P75	543	0.75	polarized 0.85	2400	6.5	45 x 485		LGN 7460 A LGN 7462 SAN 7460 A SAN 7460 AJ	
▶ LGK 7786 P100	543	1	polarized 0.85	2400	6.5	45 x 485		LGN 7460 A LGN 7462 SAN 7460 A SAN 7460 AJ	
▶ LGK 7785-100	543	1	0.88	2800	6.5	45 x 537		LGN 7470 A4 SAN 7470 A4 SAN 7470 A4J	
▶ LGK 7785-150	543	1.5	0.88	2800	6.5	45 x 537		LGN 7470 A4 SAN 7470 A4 SAN 7470 A4J	
▶ LGK 7785-200	543	2	0.88	2800	6.5	45 x 537		LGN 7470 A4 SAN 7470 A4 SAN 7470 A4J	
▶ LGK7785-250 ²	543	1.5	0.88	2800	6.5	45 x 537		LGN 7470 A4 SAN 7470 A4 SAN 7470 A4J	

¹ With heater, ² On request

All models available and technical modifications reserved. ³ Output at cathode side, ² With heater, ³ Available with Brewster window termination

Availability and technical modifications reserved.



Model	Input [V]	Output [kVDC]	Operating Current [mA]	Dimensions L x W x H [mm]	Design
LGN 7462	12	2.2-2.5	6.5	101.6 x 38.1 x 25.4	B
LGN 7463	12	1.25-1.75	5	101.6 x 38.1 x 25.4	B
LGN 7465	12	1.2-1.6	3.5	95.25 x 38.1 x 25.4	B
LGN 7460 A	115/230	2.2-2.6	6.5	107.95 x 76.2 x 30.48	A
LGN 7460 A1	115/230	1.5-2.1	6.5	107.95 x 76.2 x 30.48	A
LGN 7461 A	115/230	1.25-1.75	5	107.95 x 76.2 x 30.48	A
LGN 7466 A	115/230	1.0-1.6	2.8	107.95 x 76.2 x 30.48	A
LGN 7467 A	115/230	1.2-1.7	3.5	107.95 x 76.2 x 30.48	A
LGN 7470 A	115/230	3.5	7	177.8 x 60.96 x 35.56	C
LGN 7470 A4	115/230	2.5-3.1	6.5	177.8 x 60.96 x 35.56	C
SAN 7460 A	115/230	2.2-2.6	6.5	231 x 212 x 70	D
SAN 7460 A1	115/230	1.5-2.1	6.5	231 x 212 x 70	D
SAN 7461 A	115/230	1.25-1.75	5	231 x 212 x 70	D
SAN 7467 A	115/230	1.2-1.7	3.5	231 x 212 x 70	D
SAN 7470 A	115/230	3.5	7	231 x 212 x 70	D
SAN 7470 A4	115/230	2.5-3.1	6.5	231 x 212 x 70	D
SAN 7460 AJ	100	2.2-2.6	6.5	231 x 212 x 70	D
SAN 7461 AJ	100	1.25-1.75	5	231 x 212 x 70	D
SAN 7467 AJ	100	1.2-1.7	3.5	231 x 212 x 70	D
SAN 7470 AJ	100	3.1-3.7	7	231 x 212 x 70	D
SAN 7470 A4J	100	2.5-3.1	7	231 x 212 x 70	D

Availability and technical modifications reserved.

