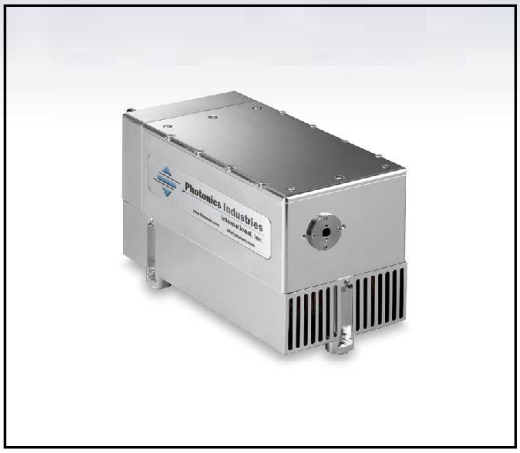
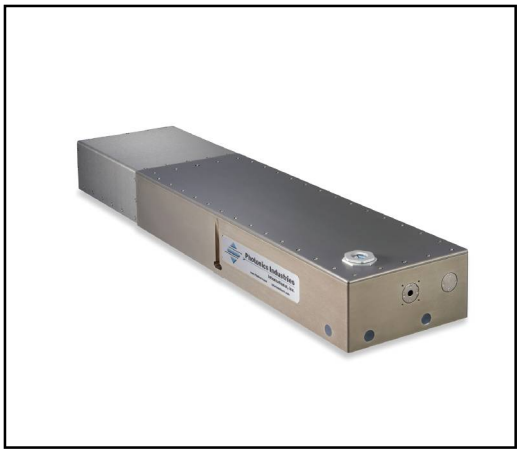
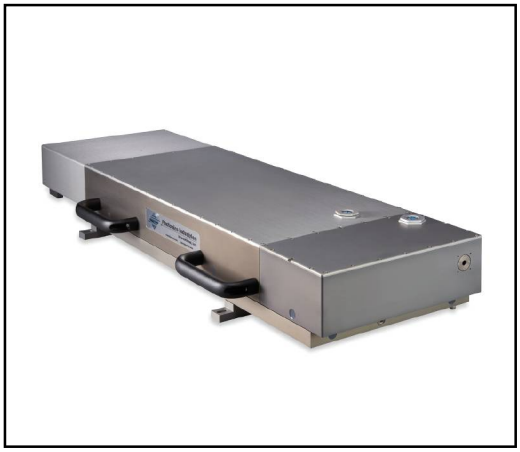
Photonics Industries
International, Inc.

Product Portfolio

Photonics Industries is the pioneer of intra-cavity solid-state harmonic lasers. Since its first high power green harmonic laser was introduced back in 1993, Photonics Industries has been creating the development history of harmonic solid-state lasers. Today, Photonics Industries has become one of the largest solid state laser manufacturers in the world, providing a wide range of diode pumped nanosecond lasers, pico-second lasers, femtosecond lasers and accessories. Our broad array of products and services are designed to provide laser solutions for a wide range of industrial, military and scientific applications. In addition to the listed products, Photonics Industries has a strong commitment to continuous product improvements and developments to keep up with today's demanding technology markets. Please contact us with your laser product needs if you are unable to find the exact product you are looking for.







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Photonics Industries International, Inc.

Nanosecond Lasers

UV@355nm Nanosecond Laser

Power	Pulse Energy	Pulse Width	Rep Rate	Mode	Model
0.5W	12.5uJ@40kHz	~15ns@40kHz	Single Shot to 200 kHz (Optional to 300kHz)	TEM_{00}	DCH-355-0.5/Air-cooled
1W	25uJ@40kHz				DCH-355-1/Air-cooled
3W	75uJ@40kHz				DCH-355-3/Air-cooled
5W	125uJ@40kHz				DCH-355-5/Air-cooled
12W	240uJ@50kHz	~20ns@50kHz			DSH-355-12
15W	300uJ@50kHz				DSH-355-15
18W	360uJ@50kHz				DSH-355-18
28W	560uJ@50kHz				DSH-355-28
40W	800uJ@50kHz				DSH-355-40

High Pulse Energy UV@351nm Nanosecond Laser

Pulse Energy	Power	Pulse Width	Rep Rate	Mode	Model
4mJ	0.8W@200Hz	~8ns	Single Shot to 200Hz	TEM_{00}	DP-351-4
8mJ	1.6W@200Hz				DP-351-8
15mJ	15W@1kHz; 22W@2kHz	~100ns@1kHz	Single Shot to 10kHz		DS-351-15
25mJ	25W@1kHz; 35W@2kHz				DS-351-25
20mJ	20W@1kHz; 30W@2kHz			Multimode	DM-351-20
40mJ	40W@1kHz; 70W@2kHz				DM-351-40

Long Pulse UV@355nm Nanosecond Laser

Pulse Width	Power	Rep Rate	Mode	Model
~80ns@40kHz;~280ns@200kHz	15W@40kHz; 4.5W@200kHz	Single Shot to 200kHz	TEM_{00}	DSH-355-LP
~80ns@40kHz;~280ns@200kHz	25W@40kHz; 8W@200kHz			DSH-355-HLP

High Power Green@532nm Nanosecond Laser

Power	Pulse Width	Rep Rate	Mode	Model
60W to 200W	~150ns@10kHz	Single Shot to 50kHz	Multimode	DM-532-60/200

Green@532nm Nanosecond Laser

Power	Pulse Width	Rep Rate	Mode	Model
1W	~10ns@20kHz;~20ns@40kHz	Single Shot to 300kHz (Optional to 500kHz)	TEM_{00}	DCH-532-1/Air-cooled
2W				DCH-532-2/Air-cooled
6W				DCH-532-6/Air-cooled
10W				DCH-532-10/Air-cooled
25W	~20ns@50kHz			DSH-532-25
35W				DSH--532-35
50W				DSH-532-50
70W				DSH-532-70

High Pulse Energy Green@527nm Nanosecond Laser

Pulse Energy	Power	Pulse Width	Rep Rate	Mode	Model
5mJ	1W@200Hz	<8ns	Single Shot to 200Hz	TEM_{00}	DP-527-5
10mJ	2W@200Hz				DP-527-10
25mJ	25W@1kHz; 45W@5kHz	~100ns@1kHz	Single Shot to 10kHz		DS-527-25
35mJ	35W@1kHz; 50W@5kHz				DS-527-35
20mJ	20W@1kHz; 30W@2kHz			Multimode	DM20-527
30mJ	30W@1kHz; 45W@2kHz				DM30-527
40mJ	40W@1kHz; 60W@2kHz				DM40-527
50mJ	50W@1kHz; 75W@2kHz				DM50-527
60mJ	60W@1kHz; 90W@2kHz				DM60-527
100mJ	100W@1kHz; 150W@2kHz				DM100-527

Long Pulse Green@532nm Nanosecond Laser

Pulse Width	Power	Rep Rate	Mode	Model
~80ns@40kHz;~280ns@200kHz	25W@40kHz; 10W@200kHz	Single Shot to 200kHz	TEM_{00}	DSH-532-LP
	40W@40kHz; 20W@200kHz			DSH-532-HLP

Picosecond Lasers

IR@1064nm Picosecond Laser

Power	Pulse Energy	Pulse Width	Rep Rate	Mode	Model
5W	50uJ@100kHz	~10ps	Single shot to 2MHz (Optional to 8MHz)	TEM_{00}	RGH-1064-5
10W	100uJ@100kHz				RGH-1064-10
30W	300uJ@100kHz				RGH-1064-30
50W	450uJ@100kHz				RGH-1064-50
70W	600uJ@100kHz				RGH-1064-70
100W	700uJ@100kHz				RGH-1064-100
15W	200nJ		72MHz		PS-1064-15
40W	550nJ				PS-1064-40
70W	970nJ				PS-1064-70
100W	1390nJ				PS-1064-100

High Pulse Energy IR@1064nm Picosecond Laser

Pulse Energy	Power	Pulse Width	Rep Rate	Mode	Model
2mJ	2W@1kHz	~10ps-100ps	Single Shot to 10kHz	TEM_{00}	RGL-1064-2
4mJ	4W@1kHz				RGL-1064-4

High Pulse Energy Green@532nm Picosecond Laser

Pulse Energy	Power	Pulse Width	Rep Rate	Mode	Model
1.5mJ	1.5W@1kHz	~10ps-100ps	Single Shot to 10kHz	TEM_{00}	RGL-532-1.5
3mJ	3W@1kHz				RGL-532-3

Green@532nm Picosecond Laser					
Power	**Pulse Energy**	**Pulse Width**	**Rep Rate**	**Mode**	**Model**
3W	30uJ@100kHz	~7ps	Single Shot to 2MHz (Optional to 8MHz)	TEM_{00}	RGH-532-3
5W	50uJ@100kHz				RGH-532-5
20W	200uJ@100kHz				RGH-532-20
35W	350uJ@100kHz				RGH-532-35
50W	400uJ@100kHz				RGH-532-50
65W	650uJ@100kHz				RGH-532-65
10W	140nJ		72MHz		PS-532-10
30W	410nJ				PS-532-30
50W	690nJ				PS-532-50
80W	1100nJ				PS-532-80

UV@355nm Picosecond Laser					
Power	**Pulse Energy**	**Pulse Width**	**Rep Rate**	**Mode**	**Model**
1.5W	15uJ@100kHz	~7ps	Single Shot to 2MHz (Optional to 8MHz)	TEM_{00}	RGH-355-1.5
3W	30uJ@100kHz				RGH-355-3
12W	120uJ@100kHz				RGH-355-12
20W	150uJ@100kHz				RGH-355-20
30W	150uJ@200kHz				RGH-355-30
40W	400uJ@100kHz				RGH-355-40
5W	70nJ		72MHz		PS-355-5
15W	200nJ				PS-355-15
30W	410nJ				PS-355-30
40W	550nJ				PS-355-40

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Special Lasers

Special Lasers
Dual Head Lasers All DS, DSH and DM Series Lasers can be combined as dual head lasers where the pulses can be fully overlapped to double the pulse energy or fully interleaved to double the prf.
Nd:YLF Lasers For high pulse energy and KHz rep rates, we have built a large number of 1053nm, 527nm, 351nm and 211nm lasers for a various applications ranging from FPD repair to remote Raman detection systems.
4th Harmonic Lasers All DS, DSH and DC Series Lasers can be built as 4th harmonic lasers to provide outputs from 10mW to 6W @ 263nm or 266nm.
Narrow Linewidth Ti:Sapphire Lasers With only a 0.1cm^{-1} linewidth, power outputs up to 1.5W and wavelength tunability in the fundamental from 700nm to 960nm along with its harmonics for wavelengths as short as 193nm, we have built a large number of these lasers for applications ranging from radioactive ion beam (RIB) to resonance Raman spectroscopy at major Universities all over the world
Optical Parametric Oscillator (OPO) With our novel intracavity OPO technology, we have built a large number of these OPO lasers producing 1.5um to 3.4um outputs and power from 0.5W to 10W with pulse widths of ~10 to 15ns for applications such as eye safe illumination, defense range finding and biophotonic research.
Single Longitudinal Mode (SLM) and Narrow Linewidth (NL) SLM and NL options are available for many of DS, DC series lasers mentioned above: SLM with linewidth <100MHz or narrow linewidth(NL) ~3GHz in the fundamental.
Subnanosecond Lasers High pulse energy and high repetition rate sub-nanosecond (~500ps) pulse width lasers are available at powers up to 100W @ 1064nm, up to 60W @ 532nm, up to 30W @ 355nm and up to 4W @ 266nm.

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Due to Photonics Industries' commitment to continuous product improvement, specifications and drawings are subject to change without notice.
Photonics Industries conforms to provisions of US 21 CFR 1040.10 & 1040.11 and is made under one or more US patents listed below:9,531,147, 8,817,831, 7,869,471, 7,346,092, 7,082,149, 7,079,557, 6,999,483, 6,980,574 6,961,355, 6,842,293, 6,762,405, 6,690,692, 6,587,487, 6,584,134, 6,366,596, 6,356,578, 6,327,281, 6,246,707, 6,229,829, 6,108,356, 6,061,370, 6,028,620, 5,936,983, 5,898,717 and Pending Patents

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