



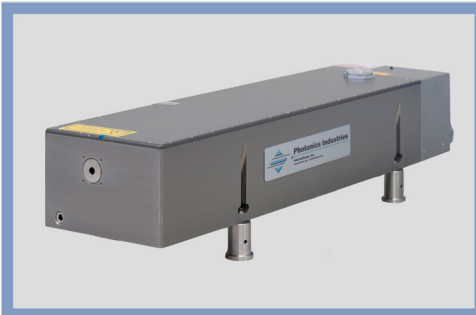
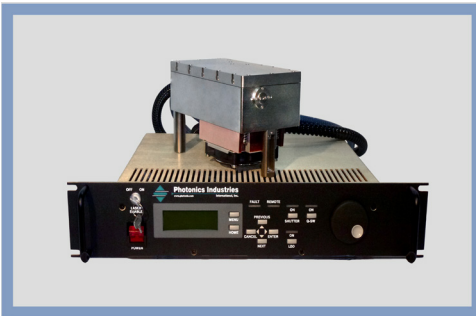
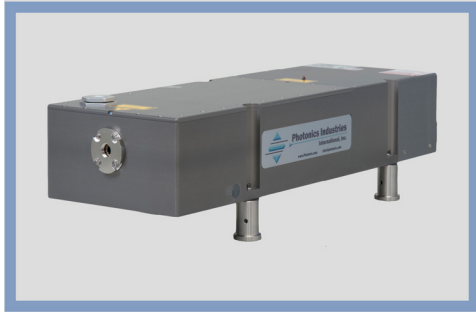
Photronics Industries
International, Inc.



TE LINTELO SYSTEMS BV
photonics is our passion!

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Product Portfolio



Photronics Industries is the pioneer of intra-cavity solid-state harmonic lasers. Since its first high power green harmonic laser was introduced back in 1993, Photronics Industries has been creating the development history of harmonic solid-state lasers, especially Q-switched intra-cavity harmonic lasers, with the focus on their industrial applications. Today, Photronics Industries has grown to be one of the largest solid state laser manufacturers in the US, provides wide range of cw diode pumped Q-switched, as well as, pulse diode-pumped nanosecond lasers (IR lasers, Green lasers, UV lasers, & Deep UV lasers), pico-second lasers, tunable lasers (Ti: Sapphire lasers, OPO lasers), Single Longitudinal Mode (SLM) or narrow line-width 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. Photronics Industries has a strong commitment to continuous product improvements to keep up with today's highest demanding technology markets.



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Nano-Second Lasers

We offer a variety of standard, as well as customized nanosecond products. These are systems which have proven themselves over a wide range of applications and markets. Below is a break down by wavelength, mode and power range to make it easy for you to locate the ideal system for your application.

Fixed Wavelength

CW diode pumped Q-switched Lasers

Wavelength*	Mode	Power Range	Laser Series
1053nm	TEM00	1W to 3W	DC (compact, air-cooled)
532/527 nm		1W to 8W	
355/351 nm		500mW to 5W	
266/263 nm		250mW to 500mW	
213/211 nm		1mW to 100mW	

Wavelength*	Mode	Power Range	Laser Series
1064/1053 nm	TEM00	10W to 70W	DS
532/527 nm		8W to 65W	
355/351 nm		4W to 35W	
266/263 nm		1.5W to 4W	

Wavelength	Mode	Power Range	Laser Series
1064/1053nm	TEM00	Up to 150W	PA
532/527 nm		Up to 100W	
355/351 nm		Up to 40W	
266/263 nm		Up to 10W	

Wavelength†	Mode	Power Range	Laser Series
1064/1053nm	Multimode	50W to 300W	DM
532/527 nm		30W to 300W	

Wavelength	Mode	Pulse Energy	Laser Series
532/527 nm	Multimode	Up to 200 mJ	DM Dual Head

* Other wavelengths available such as: 1342, 1321, 1313, 671, 660, 656, 473, 447, 440, 437, 335, 330 or 328nm on request

† 351 nm also available

Pulse Pumped Lasers

Wavelength*	Mode	Pulse Width	Rep Rate	Pulse Energy	Laser Series
1053nm	TEM00	10ns	Single shot to 200Hz	Up to 10mJ	DP YLF
527 nm		8ns		Up to 7mJ	
351 nm		8ns		Up to 2mJ	
263 nm		6ns		Up to 1.5mJ	

*Other wavelengths available such as: 1321, 1313, 660, 656, 440 or 437 nm on request

Wavelength†	Mode	Pulse Width	Rep Rate	Pulse Energy	Laser Series
1064nm	TEM00	10 - 15ns	1kHz	Up to 8mJ	DP YAG
532 nm		8 - 12ns		Up to 7mJ	
355 nm		8 - 12ns		Up to 4mJ	

†Other wavelengths available such as: 946 or 473 nm on request

Wavelength††	Mode	Pulse Width	Rep Rate	Pulse Energy	Laser Series
1064nm	TEM00	8ns	2kHz	1mJ	DP YVO4
532 nm		5ns		1mJ	
355 nm		5ns		500uJ	
266 nm		4ns		100uJ	

††Other wavelengths available such as: 1342, 671, 447 or 335 nm on request

Tunable Wavelength Lasers

Wavelength	Mode	Power/pulse energy Range	Laser Series
1.5µm to 2.0µm*	TEM00	Up to 10W, or up to 5mJ/pulse @1kHz	OPO
2.2µm to 3.4µm		Up to 1W, or up to 1mJ/pulse @1kHz	

Wavelength	Mode	Power Range	Laser Series
193nm to 970nm	TEM00	Up to 1W, or up to 1mJ/pulse @1kHz	Tu (Ti: Sapphire)

*Harmonic versions available, 255 to 1000nm, up to 5W

Single Longitudinal Mode (SLM) and Narrow Linewidth (NL) Options

Single Longitudinal Mode (SLM) and Narrow Linewidth (NL) options are available for many of the fixed wavelength ns laser models mentioned above as follows:

- o SLM (option A) – linewidth <100MHz
- o SLM (option B) – linewidth ~1GHz
- o NL ~3GHz (which is ~10% of standard fixed ns lasers linewidth) or long coherent length ~10 x standard Q-switched laser

Linewidth measurements shown are for the fundamental wavelength.

Pico-Second Lasers

Photonics Industries offers three different series of pico second lasers: a <1ns sub ns type, the SN Series; a QCW type, the PS series and a pulsed type, the RG series, all with TEM00 mode. The RG and PS series have 2 pulse width options: standard <15 ps or Long Pulse ~20 ps to 100 ps. Our PS series lasers have a repetition rate of ~80MHz (other repetition rate is optional and upon request) providing a "quasi cw" type of laser radiation for a variety of industrial, military and scientific applications.

There are two types of RG Series, RGL series and RGH series. The RGL lasers are for applications for high pulse energy and relatively low repetition rate (0-10kHz). The RGL produces up to 5mJ/pulse @1kHz. The RGH series is for applications where repetition rate ranging from single shot to 2 MHz primarily for industrial material processing applications.

QCW Picosecond Lasers

Wavelength	Mode	Pulse Width	Rep Rate	Power @ 80MHz	Series
1064 nm	TEM00	<15 ps or ~20 ps to 100 ps	80MHz	10W to 120W	PS
532 nm				4W to 70W	
355 nm				1W to 45W	
266 nm				200mW to 3W	

Pulsed Picosecond lasers

Wavelength	Mode	Pulse Width	Rep Rate	Power @ 5kHz	Series
1064 nm	TEM00	~50 ps or <25 ps	1 Hz to 10kHz	up to 10W	RG-L
532 nm				up to 6W	
355 nm				up to 4W	

Wavelength	Mode	Pulse Width	Rep Rate	Pulse Energy @ 1kHz	Series
1064 nm	TEM00	<15 ps or ~20ps to 100 ps	1kHz	5mJ	RG-L
532 nm				3mJ	
355 nm				1mJ	

Wavelength	Mode	Pulse Width	Rep Rate	Power Range	Series
1064 nm	TEM00	<15 ps or ~20 ps to 100 ps	Single Shot to 2MHz	Up to 50W	RG-H
532 nm				Up to 30W	
355 nm				Up to 20W	

Wavelength	Mode	Pulse Width	Rep Rate	Power @ 80kHz	Series
1064 nm	TEM00	<1 ns	20kHz to 80kHz	40W	SN
532 nm				25W	
355 nm				16W	
266 nm				4W	

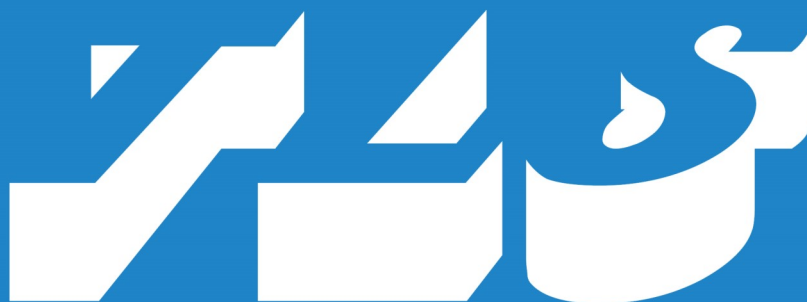


Due to Photonics Industries' commitment to continuous product improvement, specifications and drawings are subject to change without notice.

Photonics Industries conforms to provisions of US 21 CFR 1040.10 & 1040.11 and is made under one or more US patents listed below:
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; 6,584,487; 6,366,596;
6,327,281; 6,356,578; 6,246,707; 6,229,839; 6,108,356; 6,061,370; 6,028,620; 5,936,938; 5,898,717 and Pending Patents

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TE LINTELO SYSTEMS BV
photonics is our passion!

lasers
fiber optics
optical components
interferometry
opto-electronics equipment
light metrology



Te Lintelo Systems

For more than 30 years Te Lintelo Systems represent prominent suppliers from all over the world for the Benelux countries with well-educated engineers, experience and knowledge. Over the years we became the specialist in the photonics field. Together with our high end suppliers we have the answer for you!

Te Lintelo Systems is your reliable source and long term partner. Service on all levels is for us our daily business. Our experienced team is fully equipped to assist you with finding your best optical business solution.

Let's get in touch!

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