

AGILE, VPL, VPLED, HPL, EPL, EPLED

Технические характеристики

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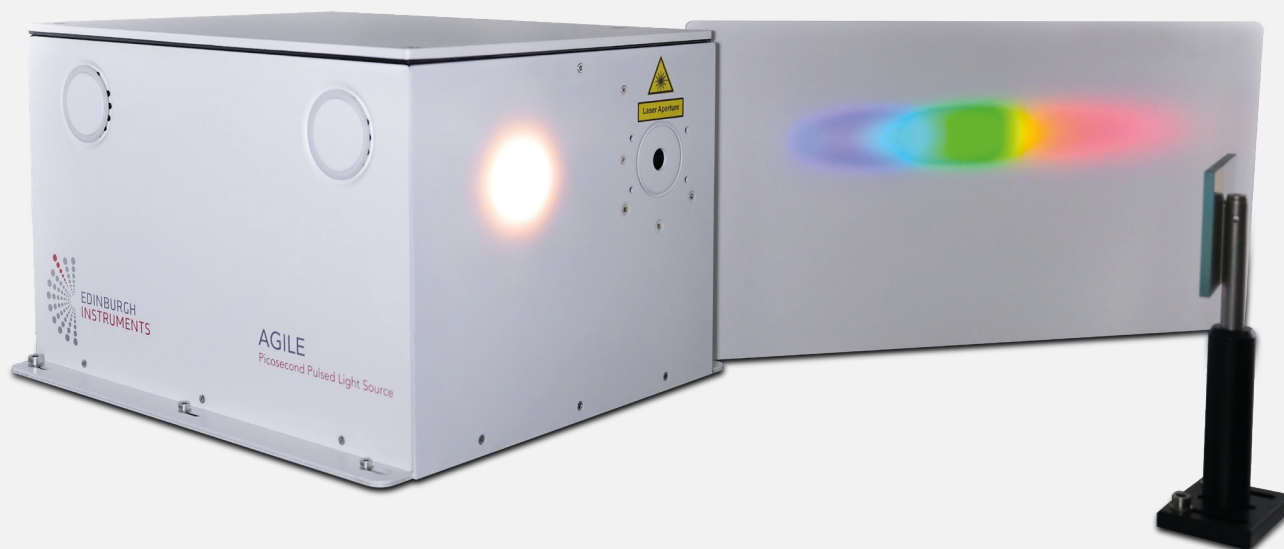
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AGILE

Picosecond Pulsed Light Source



AGILE® is a wavelength-tunable, high brightness supercontinuum laser providing picosecond pulses with variable kHz to MHz repetition rates.

AGILE features a broadband spectral output from <math><400\text{ nm}</math> to $>2000\text{ nm}$ and pulse repetition rates from 10 kHz to 1 MHz, making it the ideal light source for the majority of fluorescence lifetime applications. Using the Time-Correlated Single Photon Counting (TCSPC) technique, fluorescence lifetimes from a few picoseconds to microseconds can be accurately resolved.

Two different trigger outputs in AGILE enable operation in TCSPC and Multi-Channel Scaling (MCS) modes. MCS operation enables faster acquisition of lifetimes in the microsecond range.

Coupling AGILE to a monochromator provides continuous wavelength tuning across the visible and near-infrared spectrum with output power and temporal profile comparable to individual, single wavelength, picosecond pulsed diode lasers.

The output of AGILE can be configured as a collimated beam for free-space applications or focused with F-number matching to the Edinburgh Instruments FLS1000 Photoluminescence Spectrometer. When operated as part of the FLS1000, AGILE is fully computer controlled by the spectrometer operating software Fluoracle®.

AGILE is a turn-key, wide wavelength range light source, providing a user-friendly and maintenance-free solution for any fluorescence laboratory.



AGILE connected to an FLS1000 Photoluminescence Spectrometer.

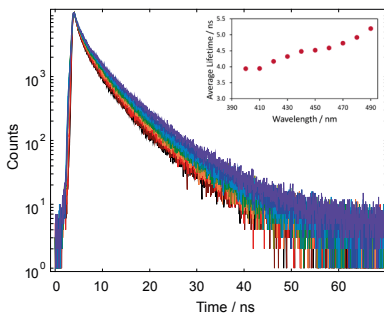


SPECIFICATIONS

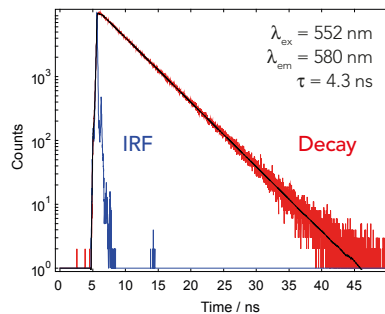
Wavelength Range	< 400 nm ... > 2000 nm					
Repetition Rate	10 kHz - 1 MHz					
Wavelength Range	400 - 500 nm	500 - 600 nm	600 - 700 nm	700 - 800 nm	800 - 900 nm	900 - 1000 nm
Average Output Power / 10 nm Bandpass *	0.51 mW	0.39 mW	0.30 mW	0.27 mW	0.17 mW	0.11 mW
Typical Pulse Width	350 ps	250 ps	200 ps	200 ps	200 ps	200 ps
Total Power Stability	< 2% **					
Polarisation	Unpolarised					
Beam Output	Collimated or focused					
Computer Interface	USB 2.0					
Synch Output	NIM (for TCSPC)					
Trigger Output	TTL (for MCS)					
Interlock Input	Hirose HR10-7R-4S (73)					
Operating Temperature	+15°C to +30°C					
Software Control	Fluoracle					
Power	90 - 240 VAC, 1A, 50/60 Hz					
Dimensions	410 mm (L) x 305 mm (W) x 245 mm (H)					
Weight	14 kg (approx)					

* at a repetition rate of 1 MHz ** after 20 min warm up time in stable environment

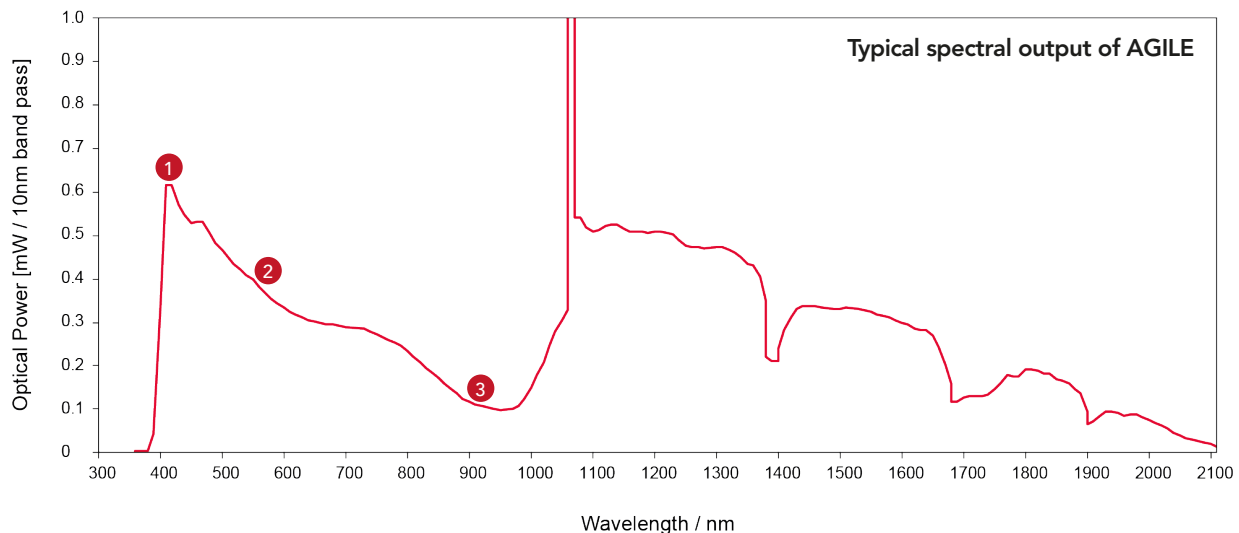
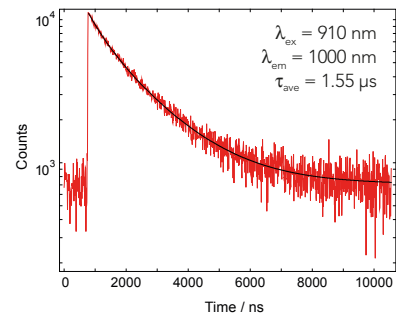
1 Carbon dots



2 Rhodamine 101



3 PbS quantum dots



VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED LASER BEAM

CLASS 4 LASER PRODUCT
IEC 60825-1:2014

Wavelength Range: 380 - 2100 nm
Max Average Power: <500 mW
Pulse Width Range: 150 - 450 ps

VPL SERIES

Adjustable Pulse Width Diode Lasers



The VPL series of diode lasers provide variable width pulses in the ns to ms range, as well as CW operation with powers up to 60 mW.

They are optimised for long photoluminescence lifetime measurements using the Multi-Channel Scaling (MCS) detection method. The width of the excitation pulses is easily controlled from the VPL allowing quick optimisation of the measurement conditions.

The VPL lasers are compact, maintenance free, and user-friendly. Although they are designed to match Edinburgh Instruments spectrometers, they can be incorporated into any experiment thanks to their external trigger capability.

KEY FEATURES

- + Optimised for MCS
- + 14 Pre-set pulse widths from 50 ns to 1 ms
- + External trigger capability
- + Adjust pulse width and repetition rate with input trigger pulse
- + Operation in CW mode
- + Spectrally purified output
- + Compact plug-and-play design
- + Extremely low RF radiation
- + Optimised collimated beam



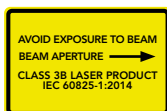
SPECIFICATIONS

Model (VPL-)	375	405	420	445	450	475	485	510	635	640	655	670	700	730	785	800	980
Nominal Wavelength (± 10 nm)	375	405	420	445	450	475	485	510	635	640	655	670	700	730	785	800	980
Typical CW Average Power (mW)	30	25	55	15	30	25	30	15	35	35	15	10	15	15	35	40	10
Minimum CW Average Power (mW)	20	10	30	10	20	10	25	10	25	15	10	8	15	15	25	10	10
Typical Peak Power (mW) *	100	45	150	45	100	30	90	25	110	45	34	24	40	40	100	100	30
Minimum Peak Power (mW) *	60	30	100	30	85	20	60	20	80	30	30	16	30	30	70	20	20

Pulse Widths	ns: <70, 100, 200, 500 μ s: 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000
External Trigger Width Mode	Pulse width and repetition rate defined by external trigger input Max. duty cycle 50%
CW Mode	Yes
Bias Supply	15 Vdc +/- 5%, 15W (2.1mm DC jack)
Trigger Output	SMA, NIM Standard
Interlock Input	Hirose HR10A-7P-4P(73), (Link pin 1 and pin 2 to ground - interlock healthy)
Trigger Input	Hirose HR10A-7P-4P(73), (Signal pin 4 and ground pin 3)
Trigger Input Signal	TTL > 50 ns pulse. Trigger on rising edge. 0.0 V < Low level < 0.5 V, 2.5 V < High level < 5 V
Key Switch	Yes
Beam Quality	10% - 90% knife edge method Beam diameter < 9.5 mm at VPL output aperture Beam diameter < 25 mm after 250 mm propagation
Spectral Conditioning	Built-in filter to minimise out-of-band emission (no spectral filtering needed)
Physical Dimensions	Overall: 168 mm length x 64 mm x 64 mm Collimator tube: \varnothing 30 mm x 38 mm
Tapped Holes for Stud Mount	2 x M6
Weight	750 g

CLASS 3B LASER PRODUCT

Avoid exposure to beam. Light emitted by the source may be harmful to the human eye and to skin. Please obey laser safety regulations.
This product complies with the US federal laser product performance standards.



VPLED SERIES

Adjustable Pulse Width UV & VIS LEDs



The VPLED series of LEDs provide variable width pulses from ns to ms, as well as CW operation with powers in the mW range.

They are optimised for long photoluminescence lifetime measurements using the Multi-Channel Scaling (MCS) detection method. The width of the excitation pulses is easily controlled from the VPLED allowing quick optimisation of the measurement conditions.

The VPLED diodes are compact, maintenance free, and user-friendly. Although they are designed to match Edinburgh Instruments spectrometers, they can be incorporated into any experiment thanks to their external trigger capability.

KEY FEATURES

- + Optimised for MCS
- + 14 Pre-set pulse widths from 50 ns to 1 ms
- + External trigger capability
- + Adjust pulse width and repetition rate with input trigger pulse
- + Operation in CW mode
- + Spectrally purified output
- + Compact plug-and-play design
- + Extremely low RF radiation



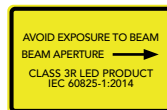
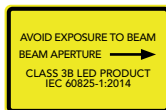
SPECIFICATIONS

Available Wavelengths (± 10 nm)	VPLED -255, -275, -295, -310, -325, -340, -365, -380, -410, -470, -525, -590, -605, -630, -740, -770, -850, -940, -1050, -1200, -1300
Typical Spectral Width (FWHM) (nm)*	10 \pm 4 to 50 \pm 5
Typical Average Power in CW Mode (mW)*	0.1 – 2.0
Typical Peak Power at Min. Pulse Width (mW)*	0.4 – 5.0
Laser Class	Class 3R (410 nm – 770 nm) or Class 3B (others)
Pulse Widths	ns: <70, 100, 200, 500 μ s: 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000
External Trigger Width Mode	Pulse width and repetition rate defined by external trigger input Max. duty cycle 50%
CW Mode	Yes
Bias Supply	15 Vdc +/- 5%, 15W (2.1mm DC jack)
Trigger Output	SMA, NIM Standard
Interlock Input	Hirose HR10A-7P-4P(73), (Link pin 1 and pin 2 to ground – interlock healthy)
Trigger Input	Hirose HR10A-7P-4P(73), (Signal pin 4 and ground pin 3)
Trigger Input Signal	TTL > 50 ns pulse. Trigger on rising edge. 0.0 V < Low level < 0.5 V, 2.5 V < High level < 5 V
Key Switch	Yes
Spectral Conditioning	Built-in filter to minimise out-of-band emission (no spectral filtering needed)
Physical Dimensions	Overall: 168 mm length x 64 mm x 64 mm Collimator tube: \varnothing 30 mm x 38 mm
Tapped Holes for Stud Mount	2 x M6
Weight	750 g

* Wavelength dependent. Please contact Edinburgh Instruments for wavelength-specific data.

CLASS 3B/3R LED PRODUCT

Avoid exposure to beam. Light emitted by the source may be harmful to the human eye and to skin. Please obey laser safety regulations.
This product complies with the US federal laser product performance standards.



HPL SERIES

High Repetition Rate / High Power
Picosecond Pulsed Diode Lasers



The HPL high repetition rate / high power picosecond pulsed diode lasers are a series of pulsed sources designed for Time-Correlated Single Photon Counting (TCSPC) measurements with repetition rates up to 80 MHz.

When operating in standard pulse mode, HPL lasers provide pulses of <math><150\text{ ps}</math> making them the ideal source for measuring short fluorescence lifetimes.

For experiments that require higher excitation energy, the high-power operation mode may be enabled. This mode offers average powers of a few mW whilst maintaining sub-nanosecond pulse widths.

HPL lasers are designed with Edinburgh Instruments spectrometers in mind and are directly mounted onto their standard laser couplings, but they are fully independent and do not need an external controller. This, together with their external trigger capability, makes them easily integrated into any experiment.

KEY FEATURES

- + Repetition rates from 1 kHz up to 80 MHz
- + Standard and high-power operation mode
- + External trigger capability
- + Spectrally purified output
- + Compact plug-and-play design
- + Extremely low RF radiation
- + Optimised collimated beam
- + Embedded drive electronics



SPECIFICATIONS

Model (HPL-)	405	420	445	450	475	485	510	635	655	670	785	800
Nominal Wavelength (± 10 nm)	405	420	445	450	475	485	510	635	655	670	785	800
Linewidth (nm)	2.0 \pm 0.5	3.0 \pm 1.0	3.0 \pm 1.0	7.0 \pm 1.0	4.5 \pm 1.0	7.0 \pm 4.0	5.0 \pm 0.5	2.5 \pm 0.5	2.5 \pm 0.5	2.5 \pm 0.5	4.0 \pm 3.0	6.0 \pm 3.0
Maximum Repetition Rate (MHz)	80	80	80	80	80	80	80	80	80	80	80	80
Typical Pulse Width (μ s) *	60	120	95	95	90	120	100	80	70	65	65	120
Typical Standard Average Power (mW) **	0.50	0.40	0.30	1.90	0.95	1.20	0.65	1.20	0.55	0.65	0.75	3.30
Typical High Average Power (mW) **	4.55	3.45	0.75	12.1	5.50	5.30	0.80	2.80	3.70	1.50	4.50	6.10
Typical Standard Peak Power (mW) **	110	90	100	200	150	150	100	250	200	130	110	300
Typical High Peak Power (mW) **	1500	800	280	1950	370	650	100	420	700	300	800	650

* In standard power mode.

** Measured at maximum repetition rate. Power may be increased by a factor of 1.1 – 4 (wavelength dependent) by removing the cleanup filter on the laser.

Repetition Rate	MHz: 80 [†] , 40, 20, 10, 5, 2 kHz: 1000, 500, 200, 100, 50, 20, 10, 5, 2.5, 1 [†] † Wavelength dependent
Bias Supply	15 Vdc +/- 5%, 15W (2.1mm DC jack)
Trigger Output	SMA, NIM Standard
Interlock Input	Hirose HR10A-7P-4P(73), (Link pin 1 and pin 2 to ground – interlock healthy)
Trigger Input	Hirose HR10A-7P-4P(73), (Signal pin 4 and ground pin 3)
Trigger Input Signal	TTL > 50 ns pulse. Trigger on rising edge. 0.0 V < Low level < 0.5 V, 2.5 V < High level < 5 V
Key Switch	Yes
Beam Quality	10% - 90% Knife Edge Method Beam diameter < 9.5 mm at HPL output aperture Beam diameter < 25 mm after 250 mm propagation
Spectral Conditioning	Built-in filter to minimise out-of-band emission (no external spectral filtering needed)
Physical Dimensions	Overall: 168 mm length x 64 mm x 64 mm Collimator tube: \varnothing 30 mm x 38 mm
Tapped Holes for Stud Mount	2 x M6
Weight	750 g

Other wavelengths available upon request.

CLASS 3B LASER PRODUCT

Avoid exposure to beam. Light emitted by the source may be harmful to the human eye and to skin. Please obey laser safety regulations. This product complies with the US federal laser product performance standards.



EPL SERIES

Picosecond Pulsed Diode Lasers



The EPL picosecond pulsed diode lasers are a family of high performance, cost effective excitation sources for fluorescence lifetime measurements.

In Time-Correlated Single Photon Counting (TCSPC) they bridge the gap between the nanosecond flashlamp and expensive mode-locked Titanium sapphire femtosecond lasers. In addition, their external trigger capability enables their use as excitation sources in Multi-Channel Scaling (MCS) mode.

The EPL lasers are pre-adjusted for an optimum pulse width, with particular attention paid to reducing a secondary shoulder characteristic of picosecond diode lasers. The output has a typical pulse width of less than 100 ps.

The EPL lasers are robust, maintenance free, easy to operate and have proprietary beam conditioning optics.

KEY FEATURES

- + Optimised for TCSPC
- + 15 pre-set repetition frequencies from 2.5 KHz to 20 MHz
- + External trigger capability
- + Spectrally purified output
- + Fully integrated & compact design
- + Extremely low RF radiation
- + Optimised collimated beam
- + Drive electronics included



SPECIFICATIONS

Model (EPL-)	375	405	445	450	475	485	510	635	655	670	785	800	980
Nominal Wavelength (nm)	375	405	445	450	475	485	510	635	655	670	785	800	975
Wavelength Range (nm)	370-380	400-410	438-448	440-455	465-480	475-490	505-515	630-640	650-660	665-675	780-790	795-805	965-985
Linewidth (nm)	< 1.5	< 2.0	< 3.0	< 3.0	< 4.5	< 6.5	< 5.0	< 2.5	< 2.5	< 2.5	< 4.0	< 6.0	< 5.0
Max. Pulse Width @10 MHz (ps)	85	75	95	100	90	120	90	85	85	80	85	110	80
Typical Pulse Width @10 MHz (ps)	60	55	85	90	80	100	85	65	65	55	70	95	60
Typical Average Power @20 MHz (mW)	0.15	0.11	0.15	0.18	0.15	0.1	0.13	0.07	0.15	0.15	0.12	0.15	0.14
Min. Average Power @20 MHz (mW)	0.1	0.08	0.1	0.1	0.1	0.06	0.1	0.04	0.12	0.1	0.09	0.1	0.06
Typical Peak Power @10 MHz (mW)	140	110	50	50	80	35	80	30	120	130	115	100	85
Min. Peak Power @10 MHz (mW)	80	80	35	25	65	20	60	25	80	75	80	60	30

Laser Class	Class 3R (EPL-405 to EPL-670) or Class 3B (EPL-375, 785, 800, 900)
Repetition Rate	MHz: 20, 10, 5, 2 kHz: 1000, 500, 200, 100, 50, 25, 20, 12.5, 10, 5, 2.5
Bias Supply	15 Vdc +/- 5%, 15W (2.1mm DC jack)
Trigger Output	SMA, NIM Standard
Interlock Input	Hirose HR10A-7P-4P(73), (Link pin 1 and pin 2 to ground – interlock healthy)
Trigger Input	Hirose HR10A-7P-4P(73), (Signal pin 4 and ground pin 3)
Trigger Input Signal	TTL > 50 ns pulse. Trigger on rising edge. 0.0 V < Low level < 0.5 V, 2.5 V < High level < 5 V
Key Switch	Yes
Beam Quality	Near field dimensions: ≤ 4.75 mm (fast axis), ≤ 1.75 mm (slow axis) Divergence: ≤ 1.5 mrad (fast axis), ≤ 0.75 mrad (slow axis)
Spectral Conditioning	Built-in filter to minimise out-of-band emission (no external spectral filtering needed)
Physical Dimensions	Overall: 168 mm length x 64 mm x 64 mm Collimator tube: \varnothing 30 mm x 38 mm
Tapped Holes for Stud Mount	2 x M6
Weight	800 g

Other wavelengths available upon request.

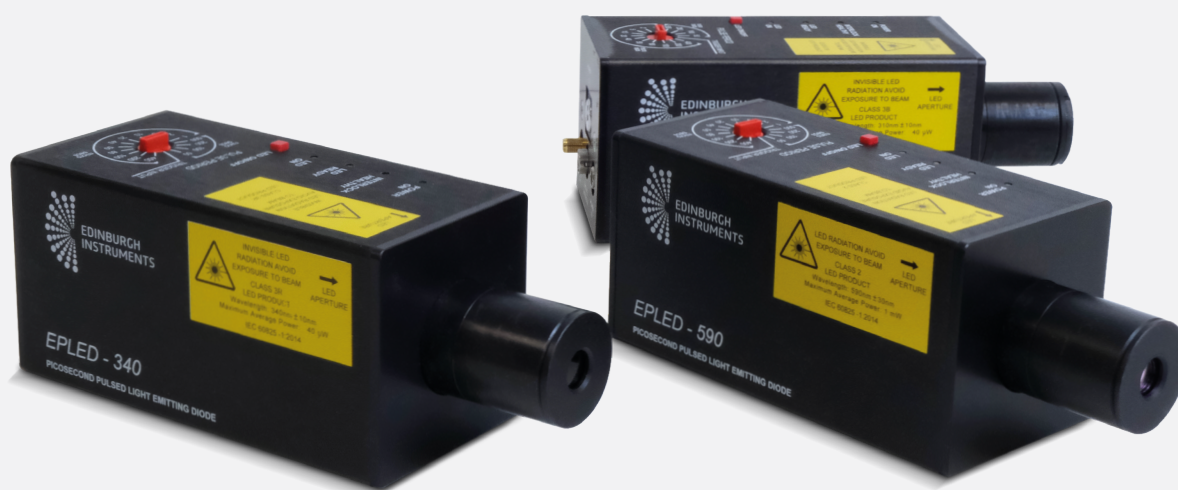
CLASS 3R/3B LASER PRODUCT

Avoid exposure to beam. Light emitted by the source may be harmful to the human eye and to skin. Please obey laser safety regulations. This product complies with the US federal laser product performance standards.



EPLIED SERIES

Picosecond Pulsed UV & Vis LEDs



The EPLIED picosecond pulsed LEDs are ideal excitation sources for fluorescence lifetime measurements providing coverage in the UV and visible ranges.

In Time-Correlated Single Photon Counting (TCSPC) they bridge the gap between the nanosecond flashlamp and expensive mode-locked Titanium sapphire femtosecond lasers. In addition, their external trigger capability makes them suitable for standalone operation in a wide range of spectroscopy applications.

The EPLEDs are pre-adjusted for an optimum pulse width, with particular attention paid to reducing a long tail in the temporal profile.

EPLEDs are robust, maintenance free, easy to operate and have proprietary beam conditioning optics.

KEY FEATURES

- + Optimised for TCSPC
- + 15 pre-set repetition frequencies from 2.5 KHz to 20 MHz
- + External trigger capability
- + Spectrally purified output
- + Fully integrated & compact design
- + Extremely low RF radiation
- + Optimised collimated beam
- + Drive electronics included



SPECIFICATIONS

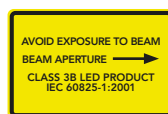
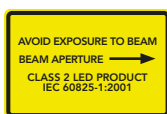
UV Series	Wavelength (nm \pm 10 nm)	Typical Pulse Width (FWHM) (ps)	Maximum Pulse Width (FWHM) (ps)	Spectral Width (FWHM) (nm)	Typical Average Power @20 MHz (μ W)
EPLED-250	250	900	1000	10.5	3.0
EPLED-255	255	890	950	11.0	4.0
EPLED-260	260	900	950	10.5	4.0
EPLED-265	265	850	950	10.5	3.0
EPLED-270	270	890	950	10.0	4.0
EPLED-280	280	880	950	10.0	2.0
EPLED-295	295	1000	1100	10.0	3.0
EPLED-300	300	1000	1300	10.0	3.0
EPLED-310	310	910	980	10.5	2.0
EPLED-320	320	880	950	11.0	3.0
EPLED-340	340	960	1050	10.0	2.0
EPLED-365	365	900	950	13.0	4.0
EPLED-380	380	990	1050	10.0	2.0
VIS Series					
EPLED-560	563	1500	1750	10.5	0.15
EPLED-570	572	1350	1600	12.5	0.35
EPLED-590	590	1300	1600	12.5	0.35
EPLED-610	610	1250	1400	15.0	2.00

Laser Class	Class 3B (EPLED-250 to EPLED-310), Class 3R (EPLED-320 to EPLED-380) or Class 2 (EPLED-560 to EPLED-610)
Repetition Rate	MHz: 20, 10, 5, 2 kHz: 1000, 500, 200, 100, 50, 25, 20, 12.5, 10, 5, 2.5
Bias Supply	15 Vdc +/- 5%, 15W (2.1mm DC jack)
Trigger Output	SMA, NIM Standard
Interlock Input	Hirose HR10A-7P-4P(73), (Link pin 1 and pin 2 to ground – interlock healthy)
Trigger Input	Hirose HR10A-7P-4P(73), (Signal pin 4 and ground pin 3)
Trigger Input Signal	TTL > 50 ns pulse. Trigger on rising edge. 0.0 V < Low level < 0.5 V, 2.5 V < High level < 5 V
Key Switch	Yes
Spectral Conditioning	Built-in filter to minimise out-of-band emission (no external spectral filtering needed)
Physical Dimensions	Overall: 168 mm length x 64 mm x 64 mm Collimator tube: \varnothing 30 mm x 38 mm
Tapped Holes for Stud Mount	2 x M6
Weight	800 g

Other wavelengths available upon request.

CLASS 2/3R/3B LED PRODUCT

Avoid exposure to beam. Light emitted by the source may be harmful to the human eye and to skin. Please obey laser safety regulations. This product complies with the US federal laser product performance standards.



По вопросам продаж и поддержки обращайтесь:

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