The EPLED Series

Picosecond Pulsed UV & VIS LEDs





The Photonics division of Edinburgh Instruments is proud to present the EPLED range of sub-nanosecond pulsed LED light sources. These picosecond pulsed LEDs are ideal excitation sources for a wide range of spectroscopy applications as well as being stand-alone modules. Standard wavelengths are available from 250 nm – 610 nm.

The EPLED picosecond pulsed LEDs are an excitation source 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 the UV and visible region.

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

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

EPLED Product Features:

- Optimised for TCSPC
- 9 Pre-set Repetition Frequencies from 20 KHz to 10 MHz
- External Trigger Facility
- Spectrally Purified Output
- Fully Integrated & Compact Design
- Extremely Low RF Radiation
- Optimised Collimated Beam

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UV Series	Wavelength (nm±10 nm)	Pulse Width (typical) (FWHM) (ps)			Pulse	Pulse Width (Maximum) (FWHM) (ps)			Spectral Width (FWHM) (nm)			Average Power @10 MHz (typical) (μW)		
EPLED 250	250	920				950				10.5		1.2		
EPLED 255	255	860				950				11.0		1.0		
EPLED 260	260	900				950				10.5		0.8		
EPLED 265	265	820				930				10.5		1.0		
EPLED 270	270	860				950				10.0		1.5		
EPLED 280	280	860				930				10.0		1.2		
EPLED 290	290	840				940				10.0		2.0		
EPLED 295	295	850				930			10.0			1.8		
EPLED 300	300	810				900			10.0			1.6		
EPLED 310	310	790				860			10.5			1.2		
EPLED 320	320	850				950			11.0			1.8		
EPLED 330	330	840				950			9.5			1.0		
EPLED 340	340	810				950			12.5			1.0		
EPLED 365	365	850				950			13.0			1.7		
EPLED 380	380	950				1050			10.0			0.9		
VIS Series														
EPLED 560	563	1,500				1,750			10.5			0.09		
EPLED 570	572	1,350				1,600			12.5			0.10		
EPLED 590	590	1,300				1,600			10.0				0.25	
EPLED 610	610	1,250				1,400			15.0				0.30	
Pulse Repetition Frequencies [MHz]		10	5	2	1	(K	(Hz)	500	200	100	50	20		
Pulse Period [ns]		100	200	500	1000	(μs)	2	5	10	20	50		
Bias Supply		15 – 18 Vdc, 15 W (2.1 mm DC jack)												
Trigger Input	TTL Trigger input 1 Hz – 10 MHz, SMB													
Trigger Output	SMA, NIM Standard													
Interlock Input	SMC, (short circuit – interlock healthy)													
Key Switch	Yes													
Spectral Conditi	Colour glass filter (interference filter on request)													
Physical Dimens	Overa	ll: 168 m	ım lengt	h x 64 mr	m x 64 mr	m. co	llimato	r tube: ø	30 mm x	38 mr	n			
Tapped Holes fo	2 off N	1 6												
Weight	800 g													







CLASS 2/3R/3B EPLED PRODUCT.

Avoid exposure to beam. Light emitted by the LED maybe harmful to the human eye and to skin. Please obey laser safety regulations.

This product complies with the US federal laser product performance standards.

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