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HORIBA Scientific

ELEMENTAL ANALYSIS
FLUORESCENCE
GRATINGS & OEM SPECTROMETERS
OPTICAL COMPONENTS
PARTICLE CHARACTERIZATION
RAMAN
SPECTROSCOPIC ELLIPSOMETRY
SPR IMAGING

Nanosecond and picosecond pulses from UV to near-IR

NanoLED Pulsed sources



The NanoLED series of pulsed light sources incorporate both LEDs and laser diodes, producing nanosecond and picosecond pulses from the UV to NIR. These sources are ideal for TCSPC applications. Ideal for OEM applications and for use with our full range of HORIBA Scientific fluorescence lifetime systems:
TemPro FluoroCube Fluorolog® TCSPC FluoroMax® TCSPC DeltaFlex DeltaPro DeltaTime

Feature	Spectroscopy Benefits
Plug-and-play operation	Easily change wavelengths throughout entire range of NanoLEDs
Picosecond laser-diodes and nanosecond LEDs	Determination of short lifetimes
Proven reliability	Repeatable and secure experiments
Wavelengths from 250 nm to 1310 nm	Study the broadest range of samples
Ultra-compact design with built-in optics	Small footprint and no changing lenses
Gold-plated casings	Minimized electromagnetic emissions
Selectable output for synchroni-zation	NIM and TTL compatible
"Sync delay" control	Quick adjustment of sync output relative to optical pulse (up to 200 ns)
Stand-alone controller with USB control and dedicated software	OEM applications

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Specifications*

Laser-diode heads

Model	Peak wavelength	Pulse width	Typical power	Other
N-375L	375 ± 10 nm	<200 ps	28 pJ/pulse	
N-395L	395 ± 10 nm	<200 ps	8 pJ/pulse	
N-405L	405 ± 10 nm	<200 ps	11 pJ/pulse	
N-415L	415 ± 10 nm	<200 ps	8 pJ/pulse	
N-425L	425 ± 10 nm	<200 ps	8 pJ/pulse	
N-440L	440 ± 10 nm	<200 ps	9 pJ/pulse	
N-470L	470 ± 10 nm	<200 ps	7 pJ/pulse	
N-485L	485 ± 10 nm	<200 ps	14 pJ/pulse	
N-510L	510 ± 10 nm	<200 ps	6 pJ/pulse	
N-635L	635 ± 10 nm	<200 ps	18 pJ/pulse	
N-650L	650 ± 10 nm	<200 ps	3 pJ/pulse	
N-670L	670 ± 10 nm	<200 ps	2 pJ/pulse	
N-785L	785 ± 20 nm	<200 ps	11 pJ/pulse	
N-830L	830 ± 20 nm	<200 ps	7 pJ/pulse	
N-980L	980 ± 20 nm	<500 ps	4 pJ/pulse	
N-1310L	1310 ± 20 nm	<500 ps	3 pJ/pulse	
N-xxxxL	New LED heads are always under development—contact HORIBA Scientific for other wavelengths			

Mounting: 35 mm bayonet coupling for fast interchange of source and exclusion of ambient light.

Gold-plated to minimize RF interference.



LED heads

Model	Peak wavelength	Pulse width	Typical power	Other
N-250	250 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-260	260 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-265	265 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-270	270 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-280	280 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-290	290 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-295	295 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-300	300 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-310	310 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-320	320 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-330	330 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-340	340 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-350	350 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-360	360 ±10 nm	<1.2 ns	1–2 pJ/pulse	
N-370	370 ±10 nm	<1.2 ns	4 pJ/pulse	
N-390	390 ±10 nm	<1.3 ns	11 pJ/pulse	
N-455	455 ±10 nm	<1.3 ns	7 pJ/pulse	
N-570	570 ±10 nm	<1.5 ns	0.2 pJ/pulse	
N-590	590 ±10 nm	<1.5 ns	2 pJ/pulse	
N-605	605 ±10 nm	<1.5 ns	2 pJ/pulse	
N-625	625 ±10 nm	<1.4 ns	4 pJ/pulse	
N-740	740 ±10 nm	<1.6 ns	3 pJ/pulse	
N-xxxxL	New LED heads are always under development—contact HORIBA Scientific for other wavelengths			

Adjustable focusing lens

Unpolarized output

Shorter pulse widths available on request for certain LEDs (λ <370 nm)

Mounting: 35 mm bayonet coupling permits quick interchange and exclusion of ambient light.

Gold-plated to minimize RF interference.



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Notes:

1. Pulse width refers to optical pulse duration; in TCSPC the prompt FWHM is also a function of detector TTS
2. The values given are for guidance only; the exact characteristics are dependent on the individual diode
3. Heads require heat sinking by connection to spectrometer (standard on HORIBA Scientific systems)

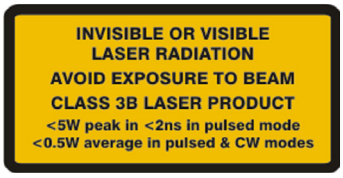
Controller

Function	Typical power
Repetition rates	10 kHz, 25 kHz, 50 kHz, 100 kHz, 250 kHz, 500 kHz, 1 MHz
Sync outputs	Selectable format: NIM-compatible (–0.8 V_{pp}, 50 Ω) or TTL-compatible (+2 V, 50 Ω)
Sync delay	0–200 ns
User interface	Keyswitch control of emission, operating parameters edited using supplied software and stored in non-volatile memory
PC interface	USB 2.0. 32-bit and 64-bit drivers are provided and the control panel software operates on all version of Windows® from XP onward
Power requirement	110 V to 240 V AC, 50/60 Hz, 100 VA
Operating temperature	+5°C to +30°C
Weight & dimensions	1 kg; 210 mm × 134 mm × 75 mm

Note:
Plug in controller card also available for FluoroHub TCSPC modules (FluoroHub-NL). Some specifications may differ from NL-C2.



Class 3R/3B laser product
Class 3B LED product
Avoid exposure to beam
Conforms to international safety standards. USA: 21 CFR subchapter 1040.10. Elsewhere IEC 60825-1







Specifications and appearance are subject to change without notice.

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