

Extended specifications

Monochromators						
Туре	Czerny-Turner design		•	Turner design		
Focal length	150 mm		300 mm			
Aperture	F/4.2		F/3.9			
Stray light rejection	10 ⁻⁵		10-5			
Grating*	1200 g/mm, blazed at 500 nm		1200 g/mm, blazed at 500 nm; 600 g/mm, blazed at 1250 nm			
Resolution	0.4 nm (at 438.5 nm, slit width 10 µm, 1200 g/mm grating)			0.1 nm (at 438.5 nm, slit width 10 µm, 1200 g/mm grating)		
Step size (min)	0.01 nm		0.01 nm			
Slit width adjustable between	10 μm - 4 mm		10 μm -	4 mm		
	(continuously adjustable, completely motorized)			(continuously adjustable, completely motorized)		
Wavelength accuracy	0.25 nm (1200 g/mm grating)		0.2 nm (1200 g/mm grating)			
Wavelength repeatability	0.1 nm		0.1 nm			
Excitation sources						
Light source	Laser Diode Heads (LDH Series)	pulsed LEDs (PLS	Series)	pulsed Xenon lamp	CW Xenon lamp	
Wavelengths (nm)	375-520, 530, 560, 595, 635-1990	245-600		200-900	200-900	
Pulse width	60 ps - 500 ps	400 ps - 1 ns		< 1 µs		
Repetition rate	up to 80 MHz	up to 40 MHz		0.1 to 300 Hz		
Detectors						
Type*	PMT (PMA-C Series)	MCP-PMT		NIR-PMT	PMA Hybrid	
Spectral range (nm)	185-700, 300-820, 300-900	160-650, 160-850,	160-910	950-1400, 950-1700	220-650, 300-720, 380-890	
Dark counts (cps,	< 200 < 3000		< 2000	< 10.000, < 200.000**	< 100 < 700 < 1000	
at 20 °C, typ. value)				,		
Transit time spread	< 180 < 180 < 180	< 25** < 25**	< 25**	< 300 ps < 300 ps**	< 50 ps < 120 ps < 160 p	
Data acquisition						
Туре	PicoHarp 300 TimeHarp 260				TimeHarp260 NANO	
Number of time channels/curve	up to 65536 up to 32768				up to 32768	
Count depth	16 bit 32 bit				32 bit	
Time resolution (bin width)	4 ps 25 ps, 2.5 ns (long			de)	1 ns	
Dead time	< 95 ns < 25 ps, 2.5 ns (lor			· '	< 1 ns	
Full scale time range	260 ns - 33 μs 819 ns - 1.71 s			,	32.8 µs - 68.48 s	
. an ooalo timo range	81.92 µs - 171 s (long rar			mode)	02.0 pc 00.10 c	
Operating environment						
Computer system	Windows XP/Vista/7/8/10					
Power requirements	110 V to 230 V, 50/60 Hz					
Dimensions (base unit)						
Without steady-state option	900 mm × 550 mm × 400 mm (w × d × h)					
	900 mm × 1100 mm × 400 mm (w × d × h)					

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