

Extended specifications

Objectives				
Standard	PL 20x PlanAchromat, NA 0.4, air spaced, 400-750 nm PL 40x PlanAchromat, NA 0.65, air spaced, 400-750 nm			
Optional	UPLSAPO 60x PlanApochromat, NA 1.2, water immersion, 400-900 nm UPLSAPO 100x PlanApochromat, NA 1.4, oil immersion, 400-850 nm PLAPO 100x PlanApochromat, NA 1.49, oil immersion, 400-950 nm other oil immersion, apochromatic correction, air spaced, IR/UV-enhanced or long working distance, TIRF objectives			
Detectors				
Type*	SPAD (PDM Series)	PMA Hybrid - 40	SPAD (SPCM-AQRH)	
Spectral range	400 - 1000 nm	300 - 720 nm	400 - 1000 nm	
Dark counts (at 20 °C, typ. value)	< 250 cps	< 700 cps	< 100 cps	
Photon detection efficiency	50 % at 550 nm	45 % at 500 nm	> 70 % at 700 nm	
Data acquisition				
Type	PicoHarp 300	HydraHarp 400	TimeHarp 260 PICO	TimeHarp 260 NANO
Time resolution (bin width)	4 ps	1 ps	25 ps	1 ns
Dead time	< 95 ns	< 80 ns	< 25 ns	< 1 ns
Operating environment				
System requirements (recommended)	Quad-core CPU > 3 GHz, RAM >= 4 GB, Windows™ 7/8			
Power requirements	110 to 230 V, 50/60 Hz			
Dimensions (w × d × h)				
Laser combining unit	600 mm × 400 mm × 200 mm (without laser driver)			
Microscope and main optical unit	1150 mm × 600 mm (2 detection channels)			
19" electronic rack (typ.)	600 × 550 × 900 mm			
Table	Maximum spacing between each unit is 1.5 m. It is recommended to allow 0.5 m access around all sides of the system.			
* Other types are available upon request.				

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