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# QUOTATION

No.: Q1301548

Date: 2014-05-20

Regarding to your request, we are pleasure inform you as follows:

Item	Model	Description	Qty	Unit Price	Sub Total
1	973000 MicroTime 200	Time-resolved Fluorescence Microscope System integration as described in the following section:	1	EUR301575.00	EUR301575.00
1-1	03201	Excitation system consisting of: NOTE:The customer will be responsible for incoupling of the MPE laser into the MicroTime 200. PicoQuant does not take over any guarantee for successful attachment of the MPE laser.	1		
1-1-1	Signal adapters	Signal adapters - signal adapters for incorporation of an external pulsed laser - external laser must provide a functional trigger signal	1		
1-1-2	Cable set	Cascaded delay cable set	1		
1-1-3	75104Free space MOU excitation laser port	- input port and beam steering in the MOU - sliding mirror to couple the beam into the existing excitation beampath - can be used for an IR laser (für TPE) - contains 2 IR attenuating filters for the power diode and the internal CCD camera	1		
1-1-4	75230Filter set (standard) for two photon excitation	consisting of: - 1 invers dichroic filter (25.5 mm x 36 mm x 3mm rectangular) - 1 fluorescence shortpass filter (25 mm circular)	1		
1-2	03202	Microscope system consisting of:	1		
1-2-1	75730Research grade inverted microscope:	- inverted microscope body Olympus IX 73 - transmission illumination with manual condensor unit incl. power supply (epi-illumination on request) - manual fluorescence filter cube revolver - binocular including one of two eyepieces with a cross hair - special right side port for confocal optics	1		
1-2-2	02735	Olympus TH4-200 power supply for microscope halogen lamp (accepts only 230 V!)	1		
1-2-3	75014	Standard objective set: - PL 20 x PlanAchromat objective, NA = 0.4 - PL 40 x PlanAchromat objective, NA = 0.65	1		
1-2-4	75017 Special high-end objective 100 x 1.45 (oil)	- PLAPO 100 x Planapochromat, NA = 1.45, oil immersion, corrected for usage with 0.17 mm glass coverslips - working distance 0.10 mm - transmission optimized for 400 - 950 nm - incl. low fluorescent immersion oil	1		

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1-2-5	70630Hardware upgrade for 2D imaging	<ul style="list-style-type: none"> <li>- manual sample translation stage with <math>\mu\text{m}</math>-screws</li> <li>- xy objective scanning using Piezo scanning table with sub-<math>\mu\text{m}</math> resolution</li> <li>- replaces the Olympus objective revolver</li> <li>- 3D digital piezo controller with special firmware</li> <li>- integrated into SymPhoTime software</li> </ul>	1		
1-3	03203	Main Optical Unit (MOU) consisting of	1		
1-3-1	75057 MOU frame	<ul style="list-style-type: none"> <li>- complete housing incl. mounting plate and electronics</li> <li>- main board incl. controller for shutter and power meter</li> <li>- shutter remote control</li> </ul>	1		
1-3-2	75042 MOU excitation unit:	<ul style="list-style-type: none"> <li>- apochromatic corrected collimation (4 x 0.16) for fibre output</li> <li>- holder for laser clean up filter (for 25 mm and 1 inch diameter optics)</li> <li>- shutter</li> <li>- relative power meter via photo diode including beamsplitting optics</li> </ul>	1		
1-3-3	75041 MOU basic confocal unit:	<ul style="list-style-type: none"> <li>- exchangeable holder for dichroic beamsplitter (for 25.5 x 36 mm rectangular optics)</li> <li>- beam displacer unit</li> <li>- 4 position filter wheel (including attenuator)</li> <li>- adjustable holder for exchangeable pinholes (30 <math>\mu\text{m}</math>, 50 <math>\mu\text{m}</math>, 75 <math>\mu\text{m}</math>, 100 <math>\mu\text{m}</math>, 150 <math>\mu\text{m}</math>)</li> </ul>	1		
1-3-4	75046 MOU beam diagnostics:	<ul style="list-style-type: none"> <li>- CCD camera including imaging optics and variable attenuator</li> <li>to monitor backscattered excitation light</li> </ul>	1		
1-3-5	75059 MOU accessories	<ul style="list-style-type: none"> <li>- Adjustment tools for beam alignment</li> <li>- Toolkit</li> <li>- Test Sample</li> </ul>	1		
1-3-6	973220 Slide with immobilised Beads and Single Molecules for alignment and performance checks	<ul style="list-style-type: none"> <li>- separate samples on the surface of 2 glass cover slips</li> <li>- cluster and isolated 100 nm diameter Tetraspeck beads, suited for excitation from 405 nm to 640 nm</li> <li>- thin polymer film with isolated Cy5</li> </ul>	1		
1-3-7	75047	MOU bypass for Multi Purpose Area MPA3 - if not equipped with a beamsplitter unit for an exit port	1		
1-3-8	70289 MOU external exit port at position MPA2	<ul style="list-style-type: none"> <li>- beamsplitter with filterslider ( 2 exchangeable optics + 1 empty slot), pre-equipped with a high reflective mirror</li> <li>and a 50/50 beamsplitter plate (each 25.5 x 36 mm rectangular)</li> <li>- incl. beamsteering to output port</li> </ul>	1		
1-3-9	75111 Fibre connector for MOU exit port	<ul style="list-style-type: none"> <li>-- achromatic focusing optics</li> <li>- for multi mode fibre cable with FC/APC connector</li> <li>- fibre not included</li> </ul>	1		
1-3-10	MOU / DEU Opto-Mechanics for detector 1	MOU / DEU Opto-Mechanics for detector 1 <ul style="list-style-type: none"> <li>- light tight filter holder (for 25 mm and 1 inch diameter optics)</li> <li>- light tight shutter</li> </ul>	1		
1-3-11	75089 MOU bypass for Multi Purpose Area MPA1	MOU bypass for Multi Purpose Area MPA1 - if not equipped with a beamsplitter unit for an exit port	1		
1-3-12	70375	Mount for PMA Hybrid in MOU / DEU	1		

Item	Model	Description	Qty	Unit Price	Sub Total
1-3-13	PMA Hybrid 40	Detection efficiency up to 45 % at 500 nm, Instrument Response < 120 ps (FWHM), Internal HV power supply, cooling and pre-amplifier, Active sensor area: 3 mm, C-mount, shutter and overload protection	1		
1-3-14	70504 DSN 200	- dual channel power supply module - to be installed in the MicroTime 200 microscope controller - can be used for PMTs (PMA series and PMA Hybrid)	1		
1-4	03204	Electronics and system software consisting of:	1		
1-4-1	75083 Microscope controller	- 19" rack incl. power supply for router and DSN - fixed sync delay line - can host router and up to 2 DSN modules	1		
1-4-2	PicoHarp 300	TCSPC module with USB 2.0 connection, independent channels with 4 ps temporal resolution suited for 1 sync & 1 detector or for 2 detectors, histogramming with 65535 time bins and 16 bit depth, incl. data acquisition software for Windows	1		
1-4-3	PH-TTTR	TTTR hardware mode option for PicoHarp 300, - including an online ("real-time") - correlator for FCS	1		
1-4-4	973190 Host PC system:	- incl. network adapter, DVD-RW drive - CAN bus card, graphic card - frame grabber card - installed and tested software - optimized for high data throughput - monitor quoted separately	1		
1-4-5	PC Monitor	TFT Display (27 inch)	1		
1-4-6	SPT64-1+2	"SymPhoTime 64", TTTR analysis and data acquisition software (64 bit), permits 1D- and 2D data acquisition with PicoHarp 300 und HydraHarp 400 (2D-data acquisition requires a suited scanner), analysis routines include e.g. FLIM, FCS, FLCS, FRET, MCS, 1 single user license (incl. hardlock)	1		
1-5	03209	Additional components for the MicroTime:	1		
1-5-1	75084 50/50 beamsplitter (polarisation insensitive)	- already premounted in a standard filter cube - recommended for 2 channel FCS measurements	1		
1-5-2	75085 Polarization beamsplitter cube	- premounted in a filter cube	1		
1-5-3	02756 Empty filter cube (U-MF2)	- can host an excitation filter, a dichroic and a detection filter	2		
1-5-4	Filter insert	- for optics with 25 mm or 1 inch diameter - max. optics thickness 10 mm	2		
1-5-5	75128 Low Light Level Spectrometer	- HC1 grating and longpass filter OFLV-QE - backthinned, TE-cooled CCD detector - < 3 nm resolution, 350-1075 nm - stand alone data acquisition software - SMA fiber connector, fiber not included	1		
1-5-6	01947 Multi mode fibre cable	- 50 µm core diameter, graded index - length 2.0 m - output connector SMA	1		
2	OPTIONAL:	OPTIONAL parts, not included in the total price	1	EUR12445.00	EUR12445.00
2-1	999000 Special item	Adaptation unit for incoupling of the existing TiSa laser - Enclosure - Beam shaping - Attenuation	1		
				Total:	EUR314020.00
				Freight & Insurance Cost:	EUR1800.00

## NOTES:

1. Terms of Price: CIF Ji'nan.
2. Terms of Payment: 100% T/T in advance within 15 days after signing the contract.
3. Delivery if Schedule: 7~8 month(s) after receipt of the payment.
4. Warranty: 12 months after shipping out the goods.
5. This quotation's validity expands until 2014-06-04.