To: Peking University Shenzhen Graduate School
Attn: Zhou Hang
Tel: 0755-26036997

From: ETSC Technologies Co.
Contact: Alfred Li
Tel: 027-87807177
Fax: 027-87807133

# QUOTATION

No.: Q1301346

Date: 2014-03-26

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

| Item | Model | Description | Qty | Unit Price | Sub Total |
|---|---|---|---|---|---|
| 1 | 972001 | FluoTime300<br>Fluorescence steady state and lifetime spectrometer | 1 | EUR110500.00 | EUR110500.00 |
| 1-1 | 03210 | Excitation system consisting of: | 1 | | |
| 1-1-1 | 910007 | PDL 820<br>Computer controlled diode laser driver for picosecond pulses<br>- internal repetition rates between 196 kHz and 80 MHz<br>- external trigger input<br>- cw operation of suited laser heads (LDH-D Series)<br>- controlled from EasyTau software | 1 | | |
| 1-1-2 | 910451 | Laser head for picosecond pulses<br>- 450 ± 10 nm<br>- incl. collimator and temperature stabilisation<br>- high power version | 1 | | |
| 1-1-3 | 910510 | Laser head for picosecond pulses<br>- 510 ± 10 nm<br>- incl. collimator and temperature stabilisation | 1 | | |
| 1-1-4 | 72019 | Adapter for laser heads of the LDH-P-C / LDH-D-C type - for coupling to the FluoTime 300 | 2 | | |
| 1-1-5 | 72021 | Automated attenuation unit in laser / LED excitation arm - to regulate excitation intensity | 1 | | |
| 1-1-6 | 72022 | Adjustable lens assembly in laser / LED excitation arm - High NA quartz focusing optics | 1 | | |
| 1-1-7 | 72023 | Laser / LED coupling port - for lasers of the LDH Series and LEDs of the PLS Series from PicoQuant<br>- also suited for coupling of a free space beam from an external excitation source | 1 | | |
| 1-2 | 03212 | Sample chamber and detection optics consisting of: | 1 | | |
| 1-2-1 | 72200 | Sample chamber<br>- large sample compartment with all basic support mechanics for optics and optomechanics | 1 | | |
| 1-2-2 | 72201 | Standard cuvette holder for 1x1cm cuvettes<br>- cable glands for water circulation<br>- 15 mm z-height | 1 | | |
| 1-2-3 | 72213 | Front face sample holder for FluoTime 300<br>- for small solid samples | 1 | | |
| 1-2-4 | 72202 | Automated collection optics<br>- High NA quartz optics for maximum sensitivity | 1 | | |
| 1-2-5 | 72203 | Automated attenuation unit in emission arm<br>- to regulate signal intensity | 1 | | |

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|---|---|---|---|---|---|
| 1-2-6 | 72204 | Manual filter slider<br>- suited for 50 mm optics in emission path<br>- accessible from outside of the sample compartment | 1 | | |
| 1-2-7 | 72206 | Automated polariser in emission arm<br>- 15 mm Glan Thompson prism, "UV Grade"<br>- wavelength range 220 nm to 1500 nm | 1 | | |
| 1-2-8 | 72208 | High resolution emission monochromator<br>- 300 mm focal length<br>- incl. one grating with 600 lines / mm, blazed at 1250 nm and one grating with 1200 lines / mm, blazed at 450 nm<br>- 2.7 nm / mm dispersion<br>- two exit ports, selectable by swinging mirror, all slits motorized | 1 | | |
| 1-2-9 | 932201 | PMA Hybrid 50<br>- Spectral response from 400 to 900 nm<br>- Detection efficiency up to 15 % at 600 nm<br>- Instrument response typ. 160 ps (FWHM)<br>- Internal HV power supply, cooling and pre-amplifier<br>- Active sensor area: 3 mm<br>- C-mount, shutter and overload protection | 1 | | |
| 1-3 | 03213 | Electronics and system software consisting of: | 1 | | |
| 1-3-1 | 72300 | Solid system mainframe incl.<br>- base plate with integrated power-supplies<br>- all signal cabling and control electronics<br>- CAN / USB interface | 1 | | |
| 1-3-2 | 930030 | TCSPC PC plugin board for the PCIe bus<br>- independent channels with 25 ps temporal resolution suited for 1 sync & 1 detector or for 2 detectors<br>- histogramming with 32768 time bins and 32 bit depth<br>- incl. data acquisition software for Windows, time tagging of all events and 2 SMA signal cables (1.8m length) | 1 | | |
| 1-3-3 | 72301 | Dual signal switch<br>- allows automated signal switching between two detectors or two detection electronics | 1 | | |
| 1-3-4 | 72303 | Signal cabling for detectors and synchronisation signal | 1 | | |
| 1-3-5 | 971060 | Host PC system:<br>- incl. network adapter, DVD-RW drive<br>- graphic card<br>- installed and tested software<br>- optimized for high data throughput<br>- monitor quoted separately | 1 | | |
| 1-3-6 | 72304 | "EasyTau" system software:<br>- full control of automated FluoTime 300 hardware<br>- application wizards for easy data acquisition<br>- expert mode incl. data acquisition macros<br>- easy data exchange with FluoFit software package | 1 | | |
| 1-3-7 | 931060 | FluoFit Pro Software for multi-exponential decay analysis for FluoTime 300 with "EasyTau"<br>- incl. tail fitting and numerical reconvolution<br>- incl. also lifetime distribution models, anisotropy, global analysis and error analysis<br>- 1 single user license (incl. hardlock) | 1 | | |
| 1-3-8 | 973180 | PC Monitor<br>- TFT Display | 1 | | |
| 2 | 72210 | NIR-PMT detector | 1 | EUR32355.00 | EUR32355.00 |

| Item | Model | Description | Qty | Unit Price | Sub Total |
|------|-------|-------------|-----|-----------|-----------|
| 2-1 | 72210 | NIR-PMT detector<br>- type H10330A-45, spectral range 950 nm to 1400 nm<br>- typ. 400 ps TTS<br>- Controller incl. high voltage power supply<br>- Housing including shutter interlocked with sample chamber lid<br>- External preamplifier | 1 | | |
| 3 | 972001 | FluoTime300<br>Fluorescence steady state and lifetime spectrometer | 1 | EUR110500.00 | EUR110500.00 |
| 3-1 | 03210 | Excitation system consisting of: | 1 | | |
| 3-1-1 | 910007 | PDL 820<br>Computer controlled diode laser driver for picosecond pulses<br>- internal repetition rates between 196 kHz and 80 MHz<br>- external trigger input<br>- cw operation of suited laser heads (LDH-D Series)<br>- controlled from EasyTau software | 1 | | |
| 3-1-2 | 910451 | LDH-P-C-450B<br>Laser head for picosecond pulses<br>- 450 ± 10 nm<br>- incl. collimator and temperature stabilisation<br>- high power version | 1 | | |
| 3-1-3 | 910510 | LDH-P-C-510<br>Laser head for picosecond pulses<br>- 510 ± 10 nm<br>- incl. collimator and temperature stabilisation | 1 | | |
| 3-1-4 | 72019 | Adapter for laser heads of the LDH-P-C / LDH-D-C type - for coupling to the FluoTime 300 | 2 | | |
| 3-1-5 | 72021 | Automated attenuation unit in laser / LED excitation arm - to regulate excitation intensity | 1 | | |
| 3-1-6 | 72022 | Adjustable lens assembly in laser / LED excitation arm - High NA quartz focusing optics | 1 | | |
| 3-1-7 | 72023 | Laser / LED coupling port - for lasers of the LDH Series and LEDs of the PLS Series from PicoQuant<br>- also suited for coupling of a free space beam from an external excitation source | 1 | | |
| 3-2 | 03212 | Sample chamber and detection optics consisting of: | 1 | | |
| 3-2-1 | 72200 | Sample chamber<br>- large sample compartment with all basic support mechanics for optics and optomechanics | 1 | | |
| 3-2-2 | 72201 | Standard cuvette holder for 1x1cm cuvettes<br>- cable glands for water circulation<br>- 15 mm z-height | 1 | | |
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| 3-2-5 | 72203 | Automated attenuation unit in emission arm<br>- to regulate signal intensity | 1 | | |
| 3-2-6 | 72204 | Manual filter slider<br>- suited for 50 mm optics in emission path<br>- accessible from outside of the sample compartment | 1 | | |
| 3-2-7 | 72206 | Automated polariser in emission arm<br>- 15 mm Glan Thompson prism, "UV Grade"<br>- wavelength range 220 nm to 1500 nm | 1 | | |

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| 3-2-9 | 932201 | PMA Hybrid 50<br>- Spectral response from 400 to 900 nm - Detection efficiency up to 15 % at 600 nm<br>- Instrument response typ. 160 ps (FWHM)<br>- Internal HV power supply, cooling and pre-amplifier<br>- Active sensor area: 3 mm<br>- C-mount, shutter and overload protection | 1 | | |
| 3-3 | 03213 | Electronics and system software consisting of: | 1 | | |
| 3-3-1 | 72300 | Solid system mainframe incl.<br>- base plate with integrated power-supplies<br>- all signal cabling and control electronics<br>- CAN / USB interface | 1 | | |
| 3-3-2 | 930030 | TimeHarp 260 PICO Single<br>TCSPC PC plugin board for the PCIe bus<br>- independent channels with 25 ps temporal resolution suited for 1 sync & 1 detector or for 2 detectors<br>- histogramming with 32768 time bins and 32 bit depth<br>- incl. data acquisition software for Windows, time tagging of all events and 2 SMA signal cables (1.8m length) | 1 | | |
| 3-3-3 | 72301 | Dual signal switch<br>- allows automated signal switching between two detectors or two detection electronics | 1 | | |
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| 3-3-5 | 971060 | Host PC system:<br>- incl. network adapter, DVD-RW drive<br>- graphic card<br>- installed and tested software<br>- optimized for high data throughput<br>- monitor quoted separately | 1 | | |
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| 3-3-8 | 973180 | PC Monitor<br>- TFT Display | 1 | | |
| 4 | 72210 | NIR-PMT detector | 1 | EUR32355.00 | EUR32355.00 |
| 4-1 | 72210 | NIR-PMT detector<br>- type H10330A-45, spectral range 950 nm to 1400 nm<br>- typ. 400 ps TTS<br>- Controller incl. high voltage power supply<br>- Housing including shutter interlocked with sample chamber lid<br>- External preamplifier | 1 | | |
| | | | | Total: | EUR285710.00 |
| | | | | Freight & Insurance Cost: | EUR1500.00 |

# NOTES:

1. Terms of Price: CIF Shenzhen.

2. Terms of Payment: 100% T/T in advance within 7 days after signing the contract.

3. Delivery if Schedule: 4~5 month(s) after receipt of the payment.

4. Warranty: 12 months after shipping out the goods.

5. This quotation's validity expands until 2014-04-10.