

From Eye to Insight

DHR Holding India Pvt. Ltd,
Suite No. 607
Mangalam Business Centre
22 Camac Street, Block A & B, 6th Floor, Kolkata – 700016 .
Email: contact.india@leica-microsystems.com

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21/1/20

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To,
The Store & Purchase Officer,
Indian Institute Of Chemical Biology,
ADDRESS: 4 Raja S.C.Mullick Road,
Kolkata: 700032
India

**Technical Bid for Tender Reference Number: NIT/Enquiry No
IICB/PUR/599/616/64/2019-20: dated 09.12.2019 and the Corrigendum published on
09.01.2020**

QUOTATION S.AS0573

Date 16 / Jan / 2020

Customer No. 1215794

Sales Person Anirban Sanyal
anirban.sanyal@leica-microsystems.com

| Item | Description | Qty | List Price EUR | Total EUR |
|--|---|-----|-------------------|--------------|
| SP8LIA Flexible Supply Unit LIAchroic | | | | |
| | <ul style="list-style-type: none">• DMi8 Advanced• Optical Outfit + motorized ICT• EL6000• Transmitted Light Brightfield Detector• Scanning Stage SP8 invers TR: 127x83• Optical Table 900 x 900 actively damped• With Air Compressor for active table• Scan optics module with rotation• High Speed Scanner• SP8 LIAchroics ROYB• Five Internal Detector Channels• Internal Detector Channel PMT 1• Internal Detector Channel HyD 2• Internal Detector Channel PMT 3• Internal Detector Channel HyD 4• Internal Detector Channel PMT 5• Laser Kit ROYB for Dichroic• Workstation, Monitor• Hamamatsu Camera Kit Confocal• 230V <p>SP8 Confocal module with patented filter-free spectral Leica SP detector for up to five individually regulatable channels. Highly efficient spectral separation by unique prism design. Equal brightness between channels due to W-shaped slit design.</p> <p>True Confocal Scanning system (TCS) with unique X2Y design warrants planar, parallax-free illumination enabling</p> | | | |

REGIONAL OFFICES AT:



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| | <p>the largest field of view. Switchable between resonant and non-resonant mode for optimal scanning speeds. Using resonant scanning a higher fluorescence quantum yield and reduced photobleaching are achieved. The continuously adjustable speed of the non-resonant scanner (1 - 1800 Hz) is ready for single molecule imaging, image correlation and imaging of rapid dynamics alike (up to 72 frames / second at 512 x 32 scan format). The maximal image resolution of 64 Megapixels allows sampling optimally, also with low magnification lenses. High Power Workstations with Windows 10 Professional (64 bit) operating system. The systems deliver performance matched to Leica microscopes for optimum control, data acquisition and data processing and basically guarantee the functionality of the optional LIGHTNING detection package.</p> <p>The LAS X Control software is mandatory for all confocal systems and, in combination with the High Power Workstations, guarantees optimal control, image acquisition and data processing of the Leica confocal systems. New functionalities can be activated directly without reinstallation by simply extending the licenses and displayed in the LAS X frontend. The LAS X is delivered with the Leica Dye Assistant and Navigator package as standard, which enable an intuitive setup of optimal acquisition conditions and subsequent imaging.</p> | | | |

Microscope Stand

| | | | | |
|-----|--|---|--|--|
| 100 | <p>DMi8 Advanced</p> <p>Inverted research microscope based on the DMi8 series with motorized focus and motorized objective revolver. Prepared for confocal scanning.</p> <ul style="list-style-type: none">-Binocular tubus (fixed)-Motorized Fluorescence Turret with 6 positions for filter cubes and motorized shutter-Motorized transmission axis for optional TLD photomultiplier (software- controlled)-Suitable for Objectives 1,25x - 100x-Microscope controller CTR Box Advanced-SmartMove for easy control in xy and z-Fluorescence Intensity-Manager | 1 | | |
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| 200 | <ul style="list-style-type: none"> -All microscope parameters shown on LCD screen -Fast switching between coarse and fine focus -Motorized 6-fold Objective revolver -Camera-Port (prepared) on right-hand side -Condensor S1/S28 -Condensor head S28/0.55 -Eyepieces HC PLAN 10/22 BR M -Lamp mount, straight for DMI -Immersion oil F -Confocal mounting kit -Laser safety equipment <p>No : 155933651</p> <p>Optical Outfit DMi8 + mot. ICT Optical outfit for inverted stand DMi8 advance with brightfield light source, and differential interference contrast (ICT) prepared for confocal microscopy. It consists of:</p> <ul style="list-style-type: none"> - LED brightfield light source with TTL shutter - Motorized ICT objective prism turret - Filter cube Analyzer for ICT imaging - Motorized Polarizer <p>No : 158000636</p> | 1 | | |
| 300 | <p>Light source EL 6000</p> <ul style="list-style-type: none"> - Alignment-free light source EL 6000 (LQ-HXP 120 LEJ) with fast shutter and typical bulb lifetime of 2000 h - Liquid light guide for thermal and mechanical insulation of light source from stand <p>No : 158000672</p> | 1 | | |
| 400 | <p>BF detector for DMI</p> <p>Transmitted light detector (TLD) for TCS SP8 DMi8 Advance Detector for acquisition of transmitted light images with interference contrast, phase contrast or bright field illumination (with laser scanning) Constains</p> <ul style="list-style-type: none"> -Photomultiplier tube -Motorized shutter -Software controlled switching to TLD detection <p>No : 158004201</p> | 1 | | |



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Handwritten signatures and dates: 21/1/2020, 21/1/20, 21/1/20



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| 500 | Univ.hold.frame K:0311.200 Universal Mounting frame inverts Frame to fix different cultivation vessels (petri dishes with 24-68 mm diameter) and glass slides (with 24-120 mm length) with two moveable brackets with a variable clamping range. Outer dimension: 160x110 mm. No : 15600234 | 1 | | |
| 600 | Scanning stage SP8 inverted TR: 127x83 Motorized Stage for DMI8 on TCS SP8 Travel range: 127 x 83mm. Resolution:0,7µm Reproducibility: < 3µm unidirectional, Accuracy: <+/- 20µm This stage may be configured with Super Z Galvo (Type H 156504116). No : 158004144 | 1 | | |
| 700 | XY advanced board for scanning stage No : 15525226 | 1 | | |
| 800 | Base Plate DMI8 Baseplate DMI8 for SP8 systems installed on non-Leica microscope tables. For MP systems, this baseplate is already included with in the IR beamrouting. No : 158000633 | 1 | | |
| 900 | Insert Universal Type H SP8/SP5/SPE/LSI Insert universal which can be adapted to different types of specimen, e.g. glass slides, petri dishes or labtek chambers. No : 158004115 | 1 | | |
| 1000 | Filter Cube DAPI No : 15525304 | 1 | | |
| 1100 | Filter Cube TXR/RFP No : 15525310 | 1 | | |
| 1200 | Filter Cube CY3 No : 15525311 | 1 | | |
| 1300 | Filter Cube CY5 No : 15525312 | 1 | | |
| 1400 | Filter Cube GFP No : 15525314 | 1 | | |
| | Objectives for Microscope | | | |



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| 1500 | Obj. HC PL APO 10x/0.40 CS2 Objective HC PL APO 10x/0.40 CS2 Plan apochromatic objective with superior color correction CS2, optimized for confocal scanning applications. This objective is ideal for simultaneous use of 405 nm and visible excitation with the TCS SP8. For use with 0.17 mm cover-glass. Air immersion. Free working distance: 2.2 mm. No : 15506407 | 1 | | |
| 1600 | Obj. HC PL APO 20x/0.75 CS2 Plan apochromatic objective with superior color correction, optimized for confocal scanning applications. For use with 0.17 mm cover-glass, no immersion. Free working distance: 0.62 mm. No : 15506517 | 1 | | |
| 1700 | HC PL APO 40x/0.95 CORR Plan apochromatic objective for confocal applications. Correction collar for use with 0.11-0.23 mm cover glass, no immersion. Free working distance: 0.17 mm. No : 15506414 | 1 | | |
| 1800 | Obj. HC PL APO 63x/1.40 OIL CS2 Plan apochromat oil immersion objective with superior color correction, optimized for confocal scanning applications. Free working distance: 0.14 mm. No : 15506350 | 1 | | |
| 1900 | 10ML IMMERSION OILNON-FLUORESCING 10ML IMMERSION OILNON-FLUORESCING No : 15513859 | 1 | | |
| 2000 | Obj HC PL APO 100x/1.40 OIL CS2 Plan apochromatic oil immersion objective with superior chromatic correction and transmission optimized for confocal scanning applications. For use with 0.17 mm cover-glass. Free working distance: 0.13 mm. No : 15506372 | 1 | | |
| | Objective Prisms for Interference Contrast | | | |
| 2100 | IC Prism A IC Prism A No : 15555006 | 1 | | |



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 - A circle containing "1/2"
 - "AS"
 - "21/1/2020" (written twice)
 - "MS"
 - "21/1/20"
 - "Leica" logo
 - "MICROSYSTEMS" text

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| 2200 | IC-prism C1 for objectives No : 15522038 | 1 | | |
| 2300 | IC Prism C IC Prism C No : 15555009 | 1 | | |
| 2400 | IC Prism E IC Prism E No : 15555046 | 1 | | |
| 2500 | IC-Prism D f. objektive No : 15555010 | 1 | | |
| Condenser Prisms for Transmitted light interference contrast | | | | |
| 2600 | IC Condenser Prism K3 IC Condenser Prism K3 No : 15555017 | 1 | | |
| 2700 | IC Condenser Prism K6 ICT condenser prism K 6 No : 15521521 | 1 | | |
| 2800 | IC Condenser Prism K10 ICT condenser prism K 10 No : 15521524 | 1 | | |
| Scan Head | | | | |
| 2900 | Scan head Liachroic TCS SP8 confocal module with LIAchroic beam splitters The TCS (true confocal scanner) is a patented true confocal point scanning system. It represents the highly sensitive, filter-free spectral detection design with computer controlled adjustable bandwidth for all fluorescence channels. Up to 4 different input ports for Laser coupling are available, depending on the configuration. This allows simultaneous use of up to 8 laser lines from UV to IR. Leica LIAchroics are low incident angle dichroic beam splitters custom designed by Leica Microsystems in-house. The LIAchroic approach allows steeper cutoff and higher transmission than other dichroic beam splitter designs. The scan head includes the Leica patented SP detector for | 1 | | |



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| | <ul style="list-style-type: none">- up to five spectral detectors- maximal fluorescence detection because of patented prism design- equal brightness between channels due to highly efficient W-shaped slit design (patented) Contains the Leica patented three-mirror scanner design for <ul style="list-style-type: none">- parallax-free imaging- maximal field-of-view Other features are: <ul style="list-style-type: none">- Optional X1-port emission access for external detectors- Support for up to 6 non-descanned detectors (optional)- Support for optional bright field detector- Square detection pinhole for maximal optical resolution- Automatic and user friendly optimisation of the pinhole diameter, manually adjustable for maintaining exact colocalisation of multi-color samples- Internal scanner controlled via FPGA (Field programmable gate arrays) for field upgrades of new features- Multidimensional image acquisition in x, y, z (space dimension) and t (time), lambda (wavelength) and any combination thereof- Supports optional z-galvonometer for real-time cross-sections- User friendly, intuitive LAS AF control software- ROI (region of interest) scan with arbitrary geometry independent for each laser line- Sequential Scanning for cross-talk free multi-color imaging (stack-wise, frame- wise or line-wise)- Beam parking for local fluorescence photobleaching, laser ablation or (optional) fluorescence correlation spectroscopy No : 158001106 | | | |
| 3000 | Scan optics module with rotation The scan optics module contains the complete scan optics for TCS SP8 with the following features: <ul style="list-style-type: none">-Optical coating with extra high transmission of > 99.7% throughout the visible spectrum ranging from 400-800 nm-Extra low reflection at optical surfaces throughout the visible spectrum- Independent, optical rotation of the scanfield up to around 200° by a highly transparent Abbé-König rotator-Prepared for either an FOV or a tandem scanner with Leica's parallax- free three-mirror design- Prepared for excitation with 405 nm line laser, all line lasers emitting visible light and the white light laser | 1 | | |



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| 3100 | For Leica DMi8 microscope. No : 158001130 FOV scanner SP8 Field-of-View scanning system for SP8 with adjustable speed -True confocal point scanner for highest axial image resolution -User adjustable speed 1 - 1800 Hz in steps of 1 Hz -X2Y-Scanner design for largest field of view -feedback monitoring of the scanner for constant image quality -actively cooled scanner -Linearized Scan, switchable between linearized and sinusoidal x-scan -Linearized scanner movement with constant, very long pixel dwell time and short duty cycle (< 15%) to ensure for a steady illumination time per pixel -Up to 7 frames / second , 512 x 512 -Up to 14 frames/ second, 512 x 256 -Up to 112 frames / second , 512 x 16 -Max. Image resolution 8192 x 8192 or 64 Mpixels -Line frequency up to 3600 Lines / second -Very large scanfield with 22 mm (SFZ) diagonal in the intermediate image plane -Hardware zoom, stepless 0.75x - 48x -Optical scan field rotation: 200° No : 158001123 | 1 | | |
| 3200 | SP8 LIAchroics ROYB LIAchroic beam splitter for systems with flexible supply unit. The beam splitters have been custom designed and produced by Leica and thus provide excellent image contrast. The beam splitters have the following properties: - Low incident angle for best transmission independent of polarization of fluorescence light - Neutral beam splitter with splitting ratio of 15/85 - Support for laser combination Red/Orange/Yellow/Blue System requirements: - Confocal module LIAchroic - Laser Kit ROYB No : 158009439 | 1 | | |
| 3300 | SP Channel 05 No : 158001450 | 1 | | |



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| 3400 | PMT SP confocal detector imaging pos 1 No : 158001411 | 1 | | |
| 3500 | HyD SP detector gated imaging pos 2 No : 158001422 | 1 | | |
| 3600 | PMT SP confocal detector imaging pos 3 No : 158001413 | 1 | | |
| 3700 | HyD SP detector gated imaging pos 4 No : 158001424 | 1 | | |
| 3800 | PMT SP confocal detector imaging pos 5 No : 158001415 | 1 | | |
| 3900 | Adaptor kit HyD SP for Basic Module 158* Adaptor kit for HyD SP spectral detectors with TCS SP5 and TCS SP8 scan heads built on The adaptor kit contains electronics necessary to connect HyD SP detectors with a TCS SP5 and TCS SP8 scan head. It provides the necessary interfaces, switches, power adaptation as well as mechanical and electrical adaptations. No : 158001492 | 1 | | |
| Laser UV - VIS | | | | |
| 4000 | Laser kit ROYB for dichroic Multi-Laser-Combination (Red Orange Yellow Blue) for use with dichroic beam splitters. Laser Kit containing - Laser Supply Unit Flexible - 8 channel AOTF (Acousto-Optical Tunable Filter) for rapid modulation of laser intensity used for: ROI (region-of-interest) illumination and beam blanking - Ar-Laser, Blue, laser class IIIb, total output power 65 mW with following wavelengths 458 nm, 488 nm, 514 nm - DPSS-Laser, Yellow, laser class IIIb, wavelength / output power: 561 nm / ~20 mW - HeNe-Laser, Orange, laser class IIIb, wavelength / output power: 594 nm / ~2 mW - HeNe-Laser, Red, laser class IIIb, wavelength / output power: 633 nm / ~10 mW - Power Supply - Shutter-interlocks - Cooling fan with hose for outgoing air No : 158002160 | 1 | | |



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| Laser UV - VIS | | | | |
| 4100 | Laser 405 nm Continuous wave laser with wavelength 405 nm for fluorescence imaging with dyes such as DAPI or Hoechst. Laser intensity is suitable for imaging with region of interest (ROI), in detail: - Wavelength 405 nm - Laser output power 50 mW - Suitable for imaging and photoactivation System requirements: - Supply Unit Compact - Laser Port 405 nm No : 158002303 | 1 | | |
| 4200 | Laser Port UV/405 Optical and mechanical coupling interface for laser with 355 nm, continuous wave 405 nm or pulsed laser 405nm for FLIM -Laser coupling via fiber, beam merging by specific longpass-dichroic LP 425 -Unified collimation optics compatible with CS2 design HC PL APO objective lenses -Chromatic correction for optimal multi-color imaging -Streamlined optical design for all magnifications for reduced maintainance cost -UV collimator automated by software Simultaneous configuration of UV, VIS, IR and STED lasers is possible due to 4 independent laser ports in scan head. No : 158001201 | 1 | | |
| Software and Workstation | | | | |
| 4300 | Workstation, Monitor High Power HPZ4G4 Workstation with Windows 10 Professional (64 bit) operating system. A high-performance professional graphics card with advanced Pascal GPU architecture addresses the highest demands in 3D visualization and computing acceleration. The Pascal GPU is a parallel processor that serves as a computing accelerator for scientific research. - HP Z4G4 - INTEL XEONW-2123 3.6 6C - 64 GB RAM - NVIDIA Quadro P4000 8GB - 6TB Hard Disc - 1TB M.2 SSD | 2 | | |



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| | <ul style="list-style-type: none"> - 9.5mm Slim Blu-ray Writer 1st ODD - Keyboard and Mouse - Windows10 IoT Enterprise 2016 LTSB ePKEA <p>The specification for the PC may change due to technical innovations. No : 158003143</p> | | | |
| 4400 | <p>Computer table Computer table for computer screen, input devices and controllers for TCS SP8, TCS SPE und TCS LSI, consisting of:</p> <ul style="list-style-type: none"> - Desktop made of multiplex wood with decor, light grey color - Side frame made of multiplex wood (high quality plywood) with extra low torsion, anthracite color <p>No : 158004700</p> | 1 | | |
| 4500 | <p>LAS X SP8 Control Software LAS X SP8 Control Software</p> <ul style="list-style-type: none"> - Leica LAS X system software for control of scan process and image processing - Control of motorized hardware - Multidimensional image acquisition - Processing, quantification and easy export of data - Extension of functionality with additional licenses - Online software and hardware manual - Includes hardware dongle and installation CD - Mandatory for all confocal systems <p>- LAS X Navigator Powerful LAS X Navigator package including the LAS X Stitching, LAS X Mark and Find as well as the control for the water immersion micro dispenser. A spiral scan can be used for a search in the vicinity of your current location. Overview images of any shape can be generated with a user defined region. Includes a choice of predefined sample carrier formats such as slides, petri dishes, chambered slides and well plates from different suppliers. The user interface shows all images in relation to an overview or the sample carrier for quick orientation. Images can be added to the overview no matter which magnification, camera, detector or contrasting method is used. Mouse wheel allows swiftly to zoom in and out of the sample. An unlimited number of regions and positions can be defined for high resolution scans and multiwell projects.</p> <p>No : 158003200</p> | 1 | | |



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| 4600 | LAS X Dye Finder - Separation of different fluorescent signals for LAS X - Automatic, channel and spectral mode - Online dye separation during image acquisition No : 158003202 | 1 | | |
| 4700 | LAS X 3D Visualisation - LAS X 3D Visualisation tool for reconstruction and processing of 3D data - Fast motion and processing by GPU-based algorithms - Various projection modes: Transparent, Maximum Intensity, and Depth Coding - Zoom, rotate and move 3D volumes via mouse buttons and mouse wheel - Individual settings for intensity, minimum and maximum grey level, gamma and opacity for each channel - User defined interactive shadow projection to emphasize three dimensional structures - Definition of viewing angle for better spatial perception - Auto motion function to emphasize the spatial effect of the 3D volume - Powerful clipping tool for channel specific user defined segmentations - Stereo images (cyan / magenta, horizontal and vertical shutter, quad- based) - Sophisticated Movie Editor for the generation of complex 3D animations - Orthogonal Sectioning tool, including rotatable section planes and 3D cropping capabilities - Annotation tool to add comments to a 3D volume that are saved with the data set No : 158003203 | 1 | | |
| 4800 | LAS X Co-Localisation - Colocalisation analysis of 2- and 3-channel images - Display of cytofluorogram (scatter diagram) in 2D and 3D - Histogram segmentation or masking to analyse intensity - Analysis in absolute or relative values No : 158003204 | 1 | | |
| 4900 | LAS X MicroLab Wizards for user friendly setup and analysis of FRAP, FLIP and FRET experiments: FRAP Wizard: | 1 | | |



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| 5000 | <ul style="list-style-type: none">- Efficient bleaching by optional Zoom in and change of format during bleach- FlyMode for fast recording of recovery by bleaching and data readout in one frame- xyzt mode for pre- and postbleach acquisition for 3D FRAP analysis- Online and offline quantification of data FRET Acceptor-Photobleaching Wizard:- FRET measurements with fixed and immobile samples.- FRET efficiency calculated for user-defined regions- Result displayed as FRET efficiency map FRET Sensitized Emission Wizard:- Correction of background fluorescence and cross-talk- Online and offline- quantification of FRET efficiency in user-defined regions- Result displayed as FRET efficiency map No : 158003206 | 1 | | |
| 5100 | LAS X 2D Analysis <ul style="list-style-type: none">- A workflow guides researchers step by step through 2D image analysis from applying filters, thresholding, and binary image processing to measurements and reporting.- Results are obtained easily, quickly, and reproducibly even on multi- dimensional data sets like time series or Z stacks.- Each analysis step offers a set of tools that the researcher can choose according to the analysis requirements.- Analysis workflows can be saved as a user-defined protocol and applied to other data sets.- The analysis results can be saved with the experiment or exported as Excel reports together with histograms and images of intermediate steps for documentation or further analysis. For statistical purposes, users can analyze several data sets of experiments in one run, adding the data to a batch list.- Reproducible classification results based on a Support Vector Machine. No : 158003215 | 1 | | |
| | LAS X Environmental Control <ul style="list-style-type: none">- LAS X Environmental Control module provides full control of experimental conditions like temperature, O2 and CO2.- Environmental data can be logged and monitored during the experiment.- The range control sends a warning if user defined limits are exceeded. | | | |



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| 5200 | <p>- All environmental conditions are set within one interface.</p> <p>Environmental Control supports: Tokai Hit: INUBG2ATFP-WSKM Controller (110-120V) INUBG2ETFP-WSKM Controller (220-240V)</p> <p>Okolab: Okolab DLS Stage Incubation Okolab Temperature Control (DLS) OkoLab Objective Heater OkoLab CO2 Hypoxia Humidity OkoLab CO2 Humidity OkoLab Basic Inv Super Z OkoLab Basic Upr Super Z OkoLab CO2 Hyperoxia Humidity OkoLab Basic Inv wo Super Z No : 158003218</p> <p>LAS X SP8 Offline Software License The offline license package includes: LAS X Basic license, Live Data Mode, Colocalization, FRET, FRAP, Dye Finder, Electrophysiology. No : 158003250</p> <p>Special Discounted FCA Germany Price in Euro:</p> <p>Insurance & Transportation Charges:</p> <p>Total CIP Kolkata Price in Euro:</p> <p>Additional Items:</p> <p>I.High Resolution Imaging (Hardware & Software Based)</p> <p><i>(Note: High speed Lightning Super resolution in lieu of Item No:3100 & Part Number 158001123)</i></p> | 1 | | |
| 5300 | <p>High Speed imaging with high speed Lightning Super Resolution:</p> <p>True Confocal Scanning system (TCS) for highest axial resolution with galvanometric scanner, switchable between resonant and non-resonant mode. Point scanning facilitates applications at high speed without compromising z-resolution or multi-parametric fluorescence as with other high speed scanning systems: 5 confocal and fully multi-spectral channels along with transmission light detection simultaneously, true optical sections by point scanning, compatible with AOBS® und SP® detection. Using resonant scanning a higher fluorescence quantum yield and reduced photobleaching are achieved. Thanks to short pixel dwell times</p> | | | |



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| | <p>fewer molecular darks states are populated (anti-triplett synchronisation).</p> <p>Performance in High Speed Scanning mode: -feedback monitoring of the scanner for constant image quality -actively cooled scanner -Line frequency 16000 Hz (bidirectional) -Up to 28 frames / second at 512 x 512 (full frame super resolution) -Up to 290 frames / second at 512 x 16 -Scan format max.: 2496 x 2496 pixels with up to 3 channels simultaneously -Scan format min.: 16 x 16 pixels -Continuous zoom range: 1.25x - 48x -Zoom-, Pan- and Zoom-In function (optional FRAP Zoomer for fast photobleaching experiments) -Very large scan field with 13 mm diagonal -Optical field rotation 200° (using optional Koenig-Rotator) This high speed raster scanning system is particularly well suited to live samples and physiological measurements, but it works just as well with fixed samples. Very large stacks in 4D experiments such as used in tissue sections and multi-photon imaging will benefit from the optional SuperZ galvanometer stage with Galvoflow control.</p> <p>Leica High Speed Confocal Super Resolution: Lightning: Leica detection package for confocal, STED and multiphoton data. LAS X LIGHTNING provides access to the LIGHTNING detection concept, for fully automated online data acquisition with the following content: - Super-resolution down to 120 nm in x and y, 350 nm in z - Wizard for online data acquisition - Fully automated "One-Click" functionality - Additional detection strategies for Low SNR & High SNR - Adaptive image quality determination and adaptive reconstruction in automatic mode - Elimination of boarder effects - 2D reconstruction - Time series - Channel-independent image reconstruction - High-performance GPU-based processing No : 158001124</p> <p>II. Incubation System (Item No:5400 & 5500)</p> | | | |



From Eye to Insight

AS 21/1/2020

MSD 21/1/2020



ASD 21/1/20

QUOTATION S.AS0573
Customer No. 1215794

Date 16 / Jan / 2020
Sales Person Anirban Sanyal
anirban.sanyal@leica-microsystems.com

| Item | Description | Qty | List Price EUR | Total EUR |
|------|---|-----|-------------------|--------------|
| 5400 | <p>Okolab Incubation System:</p> <p>For use with DMI6000 / DMi8 with stage opening of 110 x 160 mm Incubation Chamber and one insert for 35 mm petri dish and 1#x3# chamber slide included: Temp sensors in chamber body and in heated glass cover, 12 x 2.5 mm perfusion holes in chamber riser Dimensions, mm: 109,7 x 159,7 x 30,0 (24,5) Weight: 430 g Minimum Condenser working distance, mm: 28 with chamber riser, 22 without chamber riser Accuracy on Temperature to 50°C Operation in sample or chamber feedback mode Lab temperature sensor (included) and self calibration routine allow an easy calibration of the system and ensure highest accuracy on specimen temperature. Intuitive Touch Screen Display: start and stop the controller, define set point values, define temperature, choose the control mode: specimen or chamber feedback, select the chamber model and plate adapter, display all the measured variables, run the self-calibration procedure. Smart Box for web operation, data logging and remote operation (optional, has to be ordered separately) SDK available for integration in third party software Connects to other modules through quick connector bus Can be attached to 158006094 OkoLab CO2 Humidity, 158006095 OkoLab CO2 Hypoxia Humidity and 158006096 OkoLab CO2 Hyperoxia Humidity specimen temperature 0.1°C Internal resolution 0.01°C Set point value from room No : 158006092</p> | | | |
| 5500 | <p>Okolab CO2 Hypoxia Humidity:</p> <p>Adds CO2 and N2 to Air CO2 range: 0-10% O2 range: 1-18% CO2 accuracy: ± 5% of CO2 concentration, i.e. ± 0.25% at 5% CO2 O2 accuracy 0.1% at 5% O2 CO2 repeatability: better than 0.1% O2 repeatability: 0.05% of O2 Set Point Resolution: 0.1% Total flow rate: 0.4 NI/min - constant Outlet pressure: ambient CO2 consumption (at 5% of CO2): 0.02 NI/min N2 consumption (at 5% of O2): 0.3 NI/min CO2 sensor: 10 year-life Non Dispersive InfraRed (NDIR) dual wave length detector O2 sensor: 10 year-life zirconium oxide sensor Sensor calibration with external meter or calibration gas Humidity Unit including: Bubbling Column to humidify air and humidifying Module Temp Controller for long time experiments Input (Dry gas) is connected to Gas Controllers, output (Humid gas) is connected to the Incubating Chamber Smart</p> | | | |



From Eye to Insight



21/1/2020

21/1/2020



21/1/20

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| Item | Description | Qty | List Price EUR | Total EUR |
|------|--|-----|-------------------|--------------|
| | <p>Box for web operation, data logging and remote operation (optional, has to be ordered separately) Cordless connection to other units and to Smart Box SDK available for integration in third party software Filtering device: PTFE membrane with 0.2 μm pores Requires one of the following packages: 158006091 OkoLab Basic Inv Super Z, 158006092 OkoLab Basic Inv wo Super Z or 158006093 OkoLab Basic Upr Super Z No : 158006095</p> <p>III. High Sensitive Camera:</p> | | | |
| 5600 | <p>Hamamatsu Flash 4.0 V3 Confocal Hamamatsu Orca Flash 4.0 V3 scientific CMOS camera with CameraLink Extension Kit for fast image acquisition. The Orca Flash 4.0 V3 is based on a second generation sCMOS chip with 82 % QE at 560 nm. Its fast read- out speeds up to 100 fps and low readout noise of 1.6 photons (rms) make it a versatile and top performing imaging tool.</p> <p>Camera set includes - Hamamatsu Orca Flash 4.0 V3 - CameraLink PCI express board and cable - C-Mount Adapter - Camera Drivers</p> <p>Note: The achievable frame rate may depend on the speed of the computer workstation.</p> <p>To avoid interferences caused by the camera fan it is recommended to switch off the camera while imaging with high zoom and high NA objectives in the confocal modality. No : 158005313</p> <p>IV. Active Anti Vibration Table (Item No:5700 & 5800)</p> | | | |
| 5700 | <p>Optical Table 900 x 900 actively damped Actively damped optical table to minimize vibration, for TCS SP8, TCS SPE and TCS LSI Stationary pressure air socket or air compressor 158002540 is required. No : 158005666</p> | | | |



From Eye to Insight

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QUOTATION SAS0573
Customer No. 1215794

Date 16 / Jan / 2020
Sales Person Anirban Sanyal
anirban.sanyal@leica-microsystems.com

| Item | Description | Qty | List Price EUR | Total EUR |
|------|--|-----|-------------------|--------------|
| 5800 | Air Compressor for IR opt. table active - Ultra-quiet portable air compressor - Maximal air pressure 7.0 kg/cm ² - For 220 V only No : 158002600 Optional Items: | | | |
| 6000 | Control panel with LCDs Programmable control panel with 6 tuning knobs and one LCD each for efficient real-time control of all relevant system parameters. The control panel can be configured graphically by LAS AF software for each user. Each IPS parameter can be freely assigned and the transmission speed can be set by the user in up to three steps. There are two push buttons, one for changing the active window in the viewer of LAS AF as well as one for turning on or off a live scan. No : 158004751 | | | |

Terms & Conditions:

Currency: Euro

Terms: CIP, Kolkata Basis

Customs Duty, Clearance & Transportation: To be arranged at your end

Delivery: 06-10 weeks from the date of receipt of payment

Payment: 100% through LC (80% through LC against submission of PBG for 10% of the Order Value covering the period beyond two months of the Warranty Period and balance 20% after complete and successful installation, demonstration and training.)

Validity: 120 days

Warranty: 12 months from the date of installation

Extended Warranty: Additional Warranty of 2 Years will be.....

AMC: The AMC charges will be.....



From Eye to Insight

Y/N

SM 21/1/20

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Leica
MICROSYSTEMS

SM 21/1/20

Operator: An operator for 2 years will be provided locally.....

Installation & Training: Installation will be done by Leica Factory Trained Engineers.

Country of Origin: To be issued by German Chambers of Commerce

Order On: Leica Mikrosysteme Vertrieb GmbH, Ernst-Leitz-Straße 17-37 35578 Wetzlar, Germany

Banker: Deutsche Bank, Frankfurt Kto. Nr. 0410 480 00 -BLZ 500 700 10, BIC/SWIFT DEUTDEFFXXX,
IBAN DE 84 5007 0010 0041 0480 00

For Leica Microsystems (A Division of DHR Holding India Pvt. Ltd.)



Anirban Sanyal,
Sales & Application Manager,
Life Science Division.

