

Quotation

Quote Number: SA-4418-3 (UID)



Quote Date: **02-Jun-20**

Customer Ref:

Quotation prepared for:

Ralph Budwig

University of Idaho

E-mail: rbudwig@uidaho.edu

Payment Terms: Net 30 days

Quote Validity: 90 days

Warranty: 12 months after delivery

Estimated Delivery: 8 - 10 weeks ARO

Tomographic PIV and STB System

Item	Qty	Article	Model Description	Unit Price	Amount
1	4	1101442	Imager MX 5M Camera - 2464 x 2056 pixel resolution (5 MP), 10-bit, 3.45 x 3.45 micron pixels, 70% QE @ 500 nm, 50 frames/sec at full resolution at 12-bit (75 frames/sec at 8-bit) , 92 microsec interframe time, USB3 interface	16,700	66,800
2	1	1009823	USB 3 Host Controller Card - for Imager M-lite cameras, supports up to 4 cameras, PCI-e slot card	290	290
3	2	1108188	Camera rail mount - 1000 mm optical rail with two sliders and two 3-axis gear heads, for two-camera systems (e.g. stereo PIV, 3-D deformation, etc.). 5 kg maximum recommended load per gear head.	2,450	4,900
4	1	1108988	DPSS Calibration Target - dual plane, single-sided target, 20 x 20 mm (Type 020-3.6)	1,300	1,300
5	1	1108962	DPDS Calibration Target - dual plane, dual sided target, 106 x 106 mm (Type 106-10)	1,450	1,450
6	1	1108963	DPDS Calibration Target - dual plane, dual sided target, 204 x 204 mm (Type 204-15)	1,450	1,450

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7	4	1108176	Scheimpflug Camera Lens Adapter (Series 3) - for F-mount camera lenses, 20° Scheimpflug tilt angle, full 360 degree adjustability about the axis of the camera (to achieve the proper Scheimpflug angle for compound viewing angles), rotation and tilt locking mechanisms	3,330	13,320
8	4	10043-XX	Camera Lens - Nikon 180 mm focal length, F/2.8, F-mount, AF	1,375	5,500
9	4	1000855	Camera Lens - Nikon 50 mm focal length, F/1.4, F-mount, AF	710	2,840
10	4	1000863	Camera Lens - Nikon 28 mm focal length, f/2.8, F-mount	445	1,780
11	1	1104275-LVI	System Computer (14 Core) - single processor tower PC (3.3 GHz/4.4 GHZ Max Turbo), 64 GB RAM, 512 GB SSD boot drive, 4 TB SATA data drive, PCI-e slots only , read/write DVD, 1 x GPU compatible, 27" curved screen monitor, keyboard, mouse, Windows 10 Professional, DaVis software installation and testing. Includes Nvidia 2080 ti GPU.	7,750	7,750
12	1	1108093	Programmable Timing Unit (PTU-X); External - 16 fast sequencer controlled output lines, 16 software controlled I/O lines, 2 input channels (cyclic trigger and image recording sequence start), 2 output analogue lines (0 - 10 V), 10 ns time resolution, jitter less than 50 psec, variable trigger delay for phase-resolved measurements, trigger delays based on time OR phase angle (for rotating machinery), USB-2 device .	9,135	9,135

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13	1	1105320	<p>DaVis 10 Software license - for image acquisition and processing for Windows 10</p> <p>Lifetime license: free support through email and phone; can be installed on any number of computers (Floating License)</p> <p>Integrated solution: full control of all hardware components</p> <p>Modular platform concept: expandable with application specific software packages (multi-parameter imaging)</p> <p>project-oriented data management, structured data storage (traceability)</p> <p>Context-sensitive guided workflow: calibration, recording, processing, display and export in one software</p> <p>processing toolbox with integrated filters, image processing routines, hyperloop functionality</p> <p>Access to free DaVis tools: cross-link software plug-in for Matlab for reading and writing DaVis files and for Tecplot for 3D display, IRO control app</p> <p>Software features: Stream-format for efficient storage of long image sequences and fast download from High-Speed cameras, integrated display of 3D data, Tomo-PIV, 4D data from STB; user-specific display options (Zoom, Overlays, false color etc.); individual workspace configuration</p> <p>graphical hardware device manager for easy hardware setup and intuitive cabling</p> <p>Interactive live view: Change of parameters during recording, live processing allows instant feedback</p> <p>Macro programming language (CL) for flexible programming of individual</p>	5,400	5,400
14	1	1105055	<p>Tomographic PIV Software - Includes optimized image pre-processing filters, Volume Self-Calibration (<i>patented</i>) to ensure sub-pixel calibration accuracy everywhere in the measurement volume, 3-D image volume reconstruction (MLOS, MnLOS, MTE, Fast MART, and multi-pass MART algorithms), FFT and direct volume correlation (<i>patented</i>), and 3-D vector post-processing algorithms to glean instantaneous 3-component velocity measurements throughout a finite measurements volume. GPU processing compatible. Supports images from up to 8 cameras.</p>	34,400	34,400
15	1	1105076	<p>Shake-the-Box software upgrade - enhanced, fast processing 4D PTV algorithm for time resolved 3D volumetric flow field calculation at high seeding density, including Iterative Particle Reconstruction (IPR) and Optical Transfer Function (OTF) for optimizing the number of resolvable particle tracks over time</p> <p>based on an existing Tomographic PIV software license (#1105055)</p>	17,200	17,200

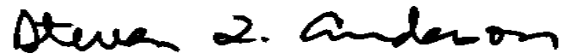
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16	1	1105078	Pressure from PIV for DaVis 10 - Calculates pressure fields from 2D-, Stereo-, Tomographic PIV, Time-resolved PIV or Shake-the-Box data. Requires at least one of the PIV or Shake-the-Box software modules. With standard 2D-, Stereo- or Tomographic PIV average pressure data can be calculated. Time-resolved PIV or Shake-the-Box data also provides instantaneous pressure fields using the 4D Pressure Solver.	9,000	9,000
17	1	1103184	Nd:YAG Dual Cavity pulsed laser - Quantel Evergreen PIV 100-25, 2 x 100 mJ/pulse at 532 nm, 25 Hz pulse rate, single power supply. Laser CLASS 4, according to EN60825-10:2001-11	41,000	41,000
18	1	1102013	System Installation and Training - on-site by a qualified LaVision representative	5,000	5,000
19	1	110SHP	Shipping, Handling, and Documentation -	850	850
Subtotal					229,365.00

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229,365.00



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Price: Net, no taxes of the state of destination are included

LaVision, Inc. is a sales tax collector in the following states:

Michigan (MI), Minnesota (MN), Indiana (IN), California (CA), Texas (TX), New York (NY) and Massachusetts (MA)

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