

B001767 Lidar Laser System

		B001767	Quantel USA	
item	qty			
1	2	YAG Laser System	\$37,100.00	
		<ul style="list-style-type: none"> <li>Quantel/Big Sky Laser Model #CFR 400-30-SHG-WSS GRM Nd</li> <li>Product #C0532E170R030LW</li> <li>Wavelength = 532 nm</li> <li>Linewidth = &lt; 2 cm<sup>-1</sup></li> <li>Polarization = V</li> <li>Cable Lengths = 3.0 m</li> <li>Dimensions of the Optical Head = Less than 350x100x100 mm LxWxH</li> <li>Dimensions of the Power Supply, Cooling and Electronics Module = Less than 592x286x585 mm LxWxH</li> <li>Repetition Frequency = 30 Hz</li> <li>Pulse Energy = 170 mJ</li> <li>Pulse Duration = 8 ns</li> <li>Beam Divergence = &lt; 1.5 mrad</li> <li>Energy Stability = &lt; 2.5 % variation from mean for 99% of shots</li> <li>Beam Diameter = 7 mm</li> <li>Pointing Stability = 100 µrad</li> <li>Jitter = &lt; 1 +/- ns WRT Q-switch</li> <li>Q-Switch Delay = 2 s</li> <li>Energy Ramp-up = 30 Q-Switch pulses</li> <li>Energy Drift over 8 hour Period = &lt; 10 %</li> <li>Operating Temperature = 10-40 C</li> <li>Flashlamp Lifetime = &gt; 20 million shots</li> <li>Storage Temperature = 5-70 C</li> <li>Maximum Altitude = 3000 m</li> <li>Optical Head to be hermetically o-ring sealed and dry Nitrogen purged</li> <li>Optical Head resonator to be single fold design to eliminate misalignment in one axis</li> <li>Weight of Optical Head not to exceed 5 kg</li> <li>Optics to be hard mounted in same plane and not mounted in adjustable, gimbal, kinematic or flexure mounts. Alignment to be effected by paired Risley prisms.</li> <li>Electrooptic Pockels cell Q-switch to comprise AR coated lithium niobate crystal plus air-spaced cube polarizer for reliability and wide range of operating temperatures</li> <li>Must have quick disconnect fittings on cabling at optical head allowing electric cables and coolant lines to be quickly removed</li> <li>Optical Head must be able to be removed from Coolant lines and Electric cables via quick disconnects</li> <li>Optical Head must seal water inside without leaks</li> <li>Laser to operate in temperatures ranging from 10-40 C and storage temperatures 5-50C</li> <li>Each Optical Head temperature cycled from 5-60C prior to shipment</li> <li>Each Optical Head Nitrogen purged prior to shipment</li> <li>Second Harmonic Generation to be done inside a temperature stabilized, hermetically o-ring sealed harmonic module; NOT as add on module</li> <li>Wavelength dichroics to fit inside 350 mm head footprint</li> <li>Wavelength selection via an external rotatable beam block</li> <li>Lamp change to be accomplished by operator and not to require disassembly or realignment</li> <li>Operating controls via front panel, or external trigger and remote box</li> <li>Must be Ethylene Glycol Water Compatible</li> <li>Rack mounted Power Supply, Cooling and Electronics Module not to exceed 592x286x585 mm</li> <li>Weight of Power Supply, Cooling and Electronics Module not to exceed 50 kg</li> <li>Military style in/output cabling; bayonet connectors</li> <li>System tested to Military Standard 810E minimum vibration integrity</li> </ul>		\$74,200.00
2	1	YAG Laser System		\$45,800.00
		<ul style="list-style-type: none"> <li>Quantel/Big Sky Laser Model #CFR 400-30-FHG WS3 GRM Nd</li> <li>Product #C0266E030R030LW</li> <li>Wavelength = 266 nm</li> <li>Linewidth = &lt; 4 cm<sup>-1</sup></li> <li>Polarization = V</li> <li>Cable Lengths = 3.0 m</li> <li>Dimensions of the Optical Head = Less than 350x100x100 mm LxWxH</li> <li>Dimensions of the Power Supply, Cooling and Electronics Module = Less than 592x286x585 mm LxWxH</li> <li>Repetition Frequency = 30 Hz</li> <li>Pulse Energy = 30 mJ</li> </ul>		

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		<ul style="list-style-type: none"> <li>• Beam Divergence = &lt; 1.2 mrad</li> <li>• Energy Stability = &lt; 5 % variation from mean for 99% of shots</li> <li>• Beam Diameter = 7 mm</li> <li>• Pointing Stability = 100 µrad</li> <li>• Jitter = &lt; 1 +/- ns WRT Q-switch</li> <li>• Q-Switch Delay = 2 s</li> <li>• Energy Ramp-up = 30 Q-Switch pulses</li> <li>• Energy Drift over 8 hour Period = &lt; 10 %</li> <li>• Operating Temperature = 10-40 C</li> <li>• Flashlamp Lifetime = &gt; 20 million shots</li> <li>• Storage Temperature = 5-70 C</li> <li>• Maximum Altitude = 3000 m</li> <li>• Optical Head to be hermetically o-ring sealed and dry Nitrogen purged</li> <li>• Optical Head resonator to be single fold design to eliminate misalignment in one axis</li> <li>• Weight of Optical Head not to exceed 5 kg</li> <li>• Optics to be hard mounted in same plane and not mounted in adjustable, gimbal, kinematic or flexure mounts. Alignment to be effected by paired Risley prisms.</li> <li>• Electrooptic Pockels cell Q-switch to comprise AR coated lithium niobate crystal plus air-spaced cube polarizer for reliability and wide range of operating temperatures</li> <li>• Must have quick disconnect fittings on cabling at optical head allowing electric cables and coolant lines to be quickly removed</li> <li>• Optical Head must be able to be removed from Coolant lines and Electric cables via quick disconnects</li> <li>• Optical Head must seal water inside without leaks</li> <li>• Laser to operate in temperatures ranging from 10-40 C and storage temperatures 5-50C</li> <li>• Each Optical Head temperature cycled from 5-60C prior to shipment</li> <li>• Each Optical Head Nitrogen purged prior to shipment</li> <li>• Second Harmonic Generation to be done inside a temperature stabilized, hermetically o-ring sealed harmonic module; NOT as and add on module</li> <li>• Wavelength dichroics to fit inside 350 mm head footprint</li> <li>• Wavelength selection via an external rotatable beam block</li> <li>• Lamp change to be accomplished by operator and not to require disassembly or realignment</li> <li>• Operating controls via front panel, or external trigger and remote box</li> <li>• Must be Ethylene Glycol Water Compatible</li> <li>• Rack mounted Power Supply, Cooling and Electronics Module not to exceed 592x286x585 mm</li> <li>• Weight of Power Supply, Cooling and Electronics Module not to exceed 50 kg</li> <li>• Military style in/output cabling; bayonet connectors</li> <li>• System tested to Military Standard 810E minimum vibration integrity</li> </ul>		
item	qty			
3	10	Flashlamp	\$375.00	
		• Model #CFR 19005515		\$3,750.00
4	20	Filter Cartridge	\$165.00	
		• Model #MEC4 DI Cartridge		\$3,300.00
			Freight	\$450.00
			<b>Total</b>	<b>\$127,500.00</b>
		Business classification		
		FOB		
		Estimated delivery		8-10 weeks ARO
		Terms		N30
		Reference number		5108A and 5109A
		Warranty		12 mos
		Quotation effective until		8/17/2008
<b>BID AWARDED TO QUANTEL USA AS THE LOWEST RESPONSIBLE BIDDER MEETING SPECIFICATIONS.</b>				