

The Texas A&M University System

ORGANIZATION		DEPARTMENT	
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BID INFORMATION			
Description	Nano IR2-s with S-SNOM & AFM-IR		
Bulletin Desc.			
Bid Number	AM02-17-B000799	Bid Opening Date	12/16/2016 2:00 PM
Bid Type	Open Market	Type Code	Invitation for Bid
Alternate Id	51774AF	Fiscal Year	2017
		Available Date	12/02/2016 11:21 AM
Pre-Bid Conference			
Attachments	Bid Information - Bid B000799.pdf Insurance Requirements~24.pdf Substitute W9 - New - February 19 2016~55.pdf Terms and Conditions (NEW) - All Departments~68.pdf		

AMENDMENTS		
<u>Amendment No.</u>	<u>Amendment Date</u>	<u>Amendment Notes</u>
1	12/13/2016 10:32 AM	Item 2 1. Description changed from "Tunable IR Laser: Pulsed with a repetition rate of 1 kHz; tuning range of 900-2000 cm-1 and 225-3600 cm-1; spectral resolution of better than 9=8 cm over the tuning range." to "Tunable IR Laser: Pulsed with a repetition rate of 1 kHz; tuning range of 900-2000 cm-1 and 2235-3600 cm-1; spectral resolution of better than 9=8 cm over the tuning range.".

ITEMS					
<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1.000	Nano IR2-s with s-SNOM and AFM-IR: a multi-functional platform optimized for high resolution localized IR spectroscopy and imaging, along with high resolution AFM imaging and metrology. The nanoIR2-s is to be capable of performing both scattering SNOM operation and AFM-IR operation. The system should incorporate a top-down IR sample illumination scheme for greater flexibility of sample formats. The system should also provide a built-in modular approach to IR laser compatibility for integration of various IR laser formats. The system is to include electronics, optics, software, computer workstation, probes and calibration standards. IR Spectroscopy: - The nanoIR2-s provides high spatial resolution IR spectroscopy and imaging via s-SNOM and AFM-IR techniques	1.00	EA		

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<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
	laser source)				
	AFM:				
	X,Y scanner with range of 80 µm by 80 µm using closed loop linearization for precise positioning performance.				
	- AFM modes supported: Tapping, Phase Imaging, Contact, Lateral Force, Force Curves, Force Modulation, EFM/MFM mode				
	- Integrated bright-field optical microscope with a 10X objective for viewing the sample and probe with a resolution of 1.5 microns				
	- Computer controlled XY sample positioning stage, 7.0 mm travel in X, 9.0 mm travel in Y				
	- Optional nano-TA nanoscale thermal analysis (additional purchase required)				
	- Optional Lorentz Drive contact resonance mode (additional purchase required)				
2.000	Tunable IR Laser: Pulsed with a repetition rate of 1 kHz; tuning range of 900-2000 cm ⁻¹ and 2235-3600 cm ⁻¹ ; spectral resolution of better than 9=8 cm over the tuning range.	1.00	EA		
3.000	CO2 Laser for use with nanoIR2-s and s-SNOM applicaitons. CO2 lasers to ship with a chiller.	1.00	EA		
4.000	Extension of nanoIR-s system warranty by additional 12 months.	1.00	EA		
5.000	Annual Maintenance Visit by vendor Engineer, two-day onsite that includes a thorough inspection of the system to determine any changes needed to optimize the performance of the system.To include the following items: adjustment and realignment of the IR source; realignment of the IR source to the nanoIR/naolR2 system; realignment, inspection and if needed cleaning of optical components within the nanoIR/nanoIR2 system; recalibration of AFM calibration values and IR source wavenumber calibration; software and firmware upgrade to the latest version compatible with the system. the timing of the Annual Maintenance Visit needs to be mutually agreed upon with at least 4 weeks advance notice.	1.00	EA		
6.000	Vibration Isolation Table: Air tables, of mulitple sizes are offered to isolate the nanoIR systems from ambient vibrations. Tables to have a load capacity of 350lbs and requires 60 psi nitrogen or air. Tables should arrive crated and already installed on top of the leg frame. A small ramp to be included that allows the table to be rolled out of the crate and into position. The ramp should enable installation to be completed with one person. Metric and English versions are to be available, with either metric (m6) or English (1/4-20) hole thread options. Table sizing for both metric and English are to be in inches (3660 = 3x5ft). TAMU will arrange for installation of the air table prior to vendors arrival onsite.	1.00	EA		
7.000	6 days combined installation and onsite training. (See Bid Information Page on Attachments Tab for Additional Information concerning Installation and Training.)	1.00	EA		
8.000	Shipping & Handling - FOB Destination, Texas A&M University - College Station, Texas 77843-3471. All equipment must be fully insured against loss and damage during shipping.	1.00	EA		