

Notice of Intent to Certify Sole Source

To: Interested Parties

From: William P. Stitt
Chief Supply Chain

Date: December 11, 2017

Re: Sole Source Certification Number **SS5140** for **Andor DSD2 Confocal 3D Imaging System, Camera and associated accessories**

Contact Email Address: solesource@umc.edu

Sole Source Certification Award Details

Regarding UMMC Sole Source Certification Number **SS5140** for **Andor DSD2 Confocal 3D Imaging System, Camera and associated accessories**, please be advised that UMMC intends to award the purchase of the PCR Reader, accessories and commodities to Andor as the sole source provider of the for Andor DSD2 Confocal 3D Imaging System, Camera and associated accessories.

UMMC issues this notice in accordance with Mississippi state law, policy, and procedures for sole source procurements.

Sole Source Criteria

1. Where the compatibility of equipment, accessories, or replacement parts is the paramount consideration (and manufacturer is the sole supplier).
2. Where a sole supplier's item is needed for trial use or testing.
3. Where a sole supplier's item is to be required when no other item will service the needs of UMMC.

Schedule

Task	Date
First Advertisement Date	December 11, 2017
Second Advertisement Date	December 18, 2017
Response Deadline from Objectors	December 27, 2017, at 3:00 p.m. Central Time
Notice of Award/No Award Posted	Not before January 24, 2017

Project Details

1. Describe the commodity that the agency is seeking to procure:

The University of Mississippi Medical Center (UMMC) seeks to purchase a Andor DSD2 Confocal 3D Imaging System, Camera and associated accessories. The equipment we seek to purchase from Andor technology is a spinning disk module that will be added on to an existing Nikon microscope. This will significantly upgrade the capability and functionality of the Nikon microscope so that, in addition to maintaining its widefield fluorescent imaging capabilities, the scope will now also be capable of high speed, high resolution, confocal fluorescent microscopy. This will allow greater resolution in all three dimensions which will allow for better visualization of cellular proteins and structures and the ability to remove out of focus light from sources of fluorescence other than the objects of interest. This equipment consists of a proprietary spinning disk, several filter cubes for limiting excitation and emission wavelengths, an sCMOS detector that has the highest quantum efficiency of any other detector currently available, and a computer with the appropriate software to drive the microscope in confocal and widefield modes and to acquire and analyze resulting images.

2. Explain why the commodity is the only one (1) that can meet the needs of the agency:

The Andor DSD2 is the only spinning disk system that can meet the needs of the NAS department at UMMC because it is designed to be added on to the Nikon eclipse 90i microscope that is already owned by the lab. The Andor system is unique in that it can be readily added on to existing microscopes. In addition, the detector on the DSD2 system has a higher quantum efficiency than any other detector for spinning disk currently available. This will allow us to take multiple images of the same sample without losing signal due to bleaching, and it will allow us to image samples that have relatively low fluorescence. Also, the disk in the DSD2 has a proprietary structured illumination pattern that dramatically increases the resolution compared to standard spinning disk technology. This higher resolution allows for greater data acquisition, especially at higher magnification. Finally, our experiments require 3D reconstruction of confocal images and quantitation of fluorescent features in the entire 3D representation of the tissue. The Imaris software that is included with the purchase of the DSD2 is the industry leader for 3D visualization and analysis of confocal data, and since it is the software that runs the DSD2 imaging system, we know that all of our data will be compatible for rapid Imaris 3D rendering and analysis..

3. Explain why the source is the only person or entity that can provide the required commodity:

Andor manufactures the Andor DSD2 Confocal 3D Imaging System, Camera and associated accessories. Andor is the sole manufacturer and supplier of the DSD2 Confocal 3D Imaging System, Camera and associated accessories. They are not available to the University from any other distributor. See supporting letter from Andor, Attachment A.

4. Explain why the amount to be expended for the commodity is reasonable:

The estimated amount to be expended is for the purchase of the Andor DSD2 Confocal 3D Imaging System, Camera and associated accessories is \$80,000. This amount is within the expected price range for these products.

5. Describe the efforts that the agency went through to obtain the best possible price for the commodity:

Through market intelligence, UMMC was able to negotiate best pricing for these products. All applicable discounts were explored and applied.

Submission Instructions and Format of Response from Objecting Parties

Interested parties who have reason to believe that the Andor DSD2 Confocal 3D Imaging System, Camera and associated accessories, (hereafter, "Products") should not be certified as a sole source should provide information in the Vendor Form for the State to use in determining whether or not to proceed with awarding the sole source to Andor. The Vendor Form may be found at <http://www.dfa.state.ms.us/Purchasing/documents/ObjectiontoSoleSourceDetermination.pdf>.

Objections must include the certification in Attachment B.

Comments will be accepted at any time prior to Tuesday, December 27, 2017, at 3:00 p.m. (Central Time) to solesource@umc.edu. Responses may be delivered via email to solesource@umc.edu. UMMC WILL NOT BE RESPONSIBLE FOR DELAYS IN THE DELIVERY OF RESPONSES. It is solely the responsibility of the Interested Parties that responses reach UMMC on time. Responses received after the deadline and responses that lack all required information will be rejected. UMMC reserves the right to inspect Interested Party's commodity for comparison purposes.

If you have any questions concerning the information above or if we can be of further assistance, please contact solesource@umc.edu.

Attachment A: Vendor Correspondence

Attachment B: Objection Certification

Attachment A



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Sole Source Justification – Andor Differential Spinning Disk 2 (DSD2) Confocal

Andor Technology is the creator and sole provider of the DSD2 in the Americas.

The Andor DSD2 confocal system consists of a broad band illumination source (non-laser) coupled to a spinning disk with multiple structured illumination patterns (SIPs). These SIPs provide confocal imaging with the benefit of advanced background/out of focus subtraction using a proprietary Andor algorithm. Andor Technology is also the manufacturer of the Andor Zyla sCMOS photodetector that is used with the DSD2, and the IQ Core software which is built on a backbone of the IMARIS software which is also proprietary to Andor technology.

Primary unique features of the Andor DSD2 system are:

1. Laser-free confocal imaging with broadband light source e.g. LED.
2. Three Structured Illumination Patterns for versatility across different objectives and sample types
3. Custom algorithm specific to improve confocality as well as produce simultaneous wide-field and confocal images with each image/exposure
4. Pre-filtering of excitation light with custom matched filters/dichroics for decreased background and signal cross-talk
5. Robust configuration requires little or no alignment and low maintenance.
6. Custom adapter and integration for the Olympus, Leica, or Nikon Microscopes. This modularity allows the end user to use the DSD2 confocal system on most of the multiport microscopes that are manufactured today. This modularity also allows for the user to move the confocal system to a new microscope, should the user need to upgrade or modify the types of experimentation being done (e.g. upright versus inverted microscope).
7. IQ-CORE v 3.0 software is our proprietary software and is optimized to control Andor's cameras and detectors. In addition, the IQ software is built into the world renowned IMARIS image analysis software which allows



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users of the DSD2 and IQ software much of the same capabilities and multidimensional analyses that are specific to IMARIS and not found in other imaging software packages.

For additional inquiry, please respond to:

Eric J. Loeffert
Regional Sales Manager, Central US Region,
Andor Technology
e.loeffert@andor.com
978-831-9459

Attachment B

SUBMITTED IN RESPONSE TO
Sole Source Certification No. SS5124
Accepted until December 6, 2017, at 3:00 p.m.

I certify that the information contained in this objection is true and accurate to the best of my knowledge. I understand that UMMC will investigate all statements made in this objection and that any false or misleading information provided may result in adverse action.

Objector Name
Objector's title

Date