

MEPNN Supplier Scouting Opportunity Synopsis

Item Information	
Scouting Number	2023-090
Item to be Scouted	Monochrome CMOS Cameras and Accessories
Days to be scouted	15
Description	<p>The Oceanic and Atmospheric Research (OAR), National Severe Storms Laboratory's (NSSL) needs to purchase monochrome CMOS cameras and accessories equivalent to Ximea Corp.'s CB120MG-CM-X8G3 (manufactured in Slovakia), CBL-MT-PWR-SYNC-3M0 I/O Sync and AUX power cables (manufactured in Malaysia), CBL-PCI-COP-3M0 PCIe Gen.s copper cables (manufactured in Taiwan), CBL-PCI-COP-5M0 PCIe Gen.2 copper cables (manufactured in Mexico), PEX8-G3-X2-OSS PCIe Gen.3 dual port extender host adapters for copper and fiber optics cables (manufactured in United States), PSU-GSM60B24-P1J desktop power supply kits with power cords (manufactured in Canada), and CBL-PWR-C7-US power cords for BACS and PSU-GSM power supplies (manufactured in Canada).</p> <p>The Ximea Corp. CB120MG-CM-X8G3 monochrome CMOS camera is a 4K, compact, high-speed camera designed to fully capture high velocity objects like hail in complete free-fall without distortion and allow for various measurements to be taken. The cameras are capable of high frames rates (greater than 300 fps), have a high resolution, and allow for very short exposure times in order to properly capture the free-falling objects.</p>
State item to be used in	Oklahoma

Contact Information	
Email	stephanie.long@noaa.gov
First Name	Stephanie
Last Name	Long
Department / Company / MEP Center	Commerce, U.S. Department of
Bureau / Division / MEP Center Regional Office	National Oceanic and Atmospheric Administration

Supplier Information	
Type of supplier being sought	Manufacturer
Reason	BABA
Details	BAA Waiver

Summary of technical specifications and performance requirements	
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Electronics Assembly

Provide dimensions / size / tolerances / performance specifications for the item	<ul style="list-style-type: none"> • 12 Mpix Monochrome CMOS camera with AMS CMOSIS CMV12000 • PCIe Gen3 speed of 64 Gbit/s allows more than 330 Fps at 8bit <p>Specifications:</p> <p>Resolution 12 MP 4096 x 3072 pixel Frame rates 330 Fps (8 bit) Sensor model equivalent to AMS CMOSIS CMV12000 Sensor type CMOS B/W monochrome Sensor size 28 mm Sensor active area 22.5 x 16.9 mm Readout method Global shutter Pixel size 5.5 µm Digitization 8, 10, 12 Data interface PCI Express (PCIe) Gen3 Dynamic range 60 dB Full Well Capacity 13 500 e- On-chip binning 2x2 (and Skipping) Signal to noise ratio 41,3 dB Exposure range 19µs - 3.5s I/O Ports 2IN/2OUT Power consumption 17 Watt Lens mount Optional accessory: Active EF-mount Weight 280g Dimensions WxHxD 70 x 60 x 57 mm Cooling Fan</p> <p>Attachments are examples of item(s) needed/requested</p>
List required materials needed to make the product, including materials of product components	Exact materials are not specified within the product specification and data sheet, except as listed above and attached.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Additional Technical Comments	Any suggested alternative products must be fully compatible with Ximea Corp.'s products, as these are already in use by the National Severe Storms Laboratory (NSSL) and these are replacement cameras and accessories. Other similar products were sent to the program office for technical evaluation including - Baumer's VQXT-120C.HS, Mightex's 1.2MP CMOS, and Pixelink's PL-X9512. I am still waiting on a response.

Volume and Pricing

Estimated potential business volume	<p>One-time purchase</p> <ul style="list-style-type: none"> • Quantity 12 CB120MG-CM-X8G3 monochrome CMOS cameras • Quantity 12 CBL-MT-PWR-SYNC-3M0 I/O Sync and AUX power cables • Quantity four (4) CBL-PCI-COP-3M0 PCIe Gen.s copper cables • Quantity eight (8) CBL-PCI-COP-5M0 PCIe Gen.2 copper cables • Quantity seven (7) PEX8-G3-X2-OSS PCIe Gen.3 dual port extender host adapters for copper and fiber optics cables • Quantity 12 PSU-GSM60B24-P1J desktop power supply kits with power cords • Quantity 12 CBL-PWR-C7-US power cords for BACS and PSU-GSM power supplies
Estimated target price / unit cost information (if unavailable explain)	Aggregate purchase of \$175,670.00 for all products (not including shipping).

Delivery Requirements

When is it needed by?	Delivery by 12 weeks after date of award.
Describe packaging requirements	No requirements specified.
Where will this item be shipped?	Norman, OK

Additional Comments

Is there other information you would like to include?	This is a Simplified Acquisition, which has a shorter lead time to completion than an action over \$250,000.00. It is expected that this requirement will be awarded within the next 60 days, and any timely scouting (requested completed within 15 days from submission) would be appreciated to align with Simplified Acquisition requirements for posting and the Buy American Act Waiver process.
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