

## ITEM OPPORTUNITY SYNOPSIS

<b>Scouting Number:</b>	2024-212
<b>Name of the item to be scouted:</b>	Double-pulse Nd:Yag Laser
<b>State item to be used in:</b>	North Carolina
<b>Describe the Item:</b>	
Please describe the item application/the end use of the item.	Double-pulse Nd:YAG laser similar in form, fit and function to Evergreen EVG00200 for use in Particle Image Velocimetry studies in a meteorological wind tunnel.
<b>Supplier Information:</b>	
<b>Type of Supplier Being Sought (select from the list below):</b>	
Manufacturer	x
Contract Manufacturer	
Distributor	
Other (Please Specify)	
<b>Reason for Scouting Submission (select from the list below)</b>	
2nd Supplier	x
Price	
Re-Shore	
Past supplier no longer available	
New Product Startup	
BABA	
Other (Please Specify)	
<b>Summary of Technical Specifications and Performance Requirements:</b>	
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Scientific Instrument Manufacturing
Provide dimensions / size / tolerances / performance specifications of the item	Wavelength: 532 nanometers Pulse Energy: minimum 180 mJ/pulse @ 532 nanometers Pulse Width: maximum 10 nanoseconds (full width half maximum - FWHM) Repetition Rate: Minimum 10 Hz Light Polarization: Linear Nominal Near Field Beam Diameter: 6.35 mm External Triggering: BNC connections for flash lamp and Q-switch Far Field Beam Overlap: minimum ±100 microradians Laser Head Orientation: Laser head assembly can operate in any orientation Physical Dimensions: Laser head should be no longer than 500 mm with a cross-section of less than 200 mm by 200 mm.
List required materials needed to make the product, including materials of product components, if applicable	NA
<b>Are there applicable certification requirements?</b>	
Yes	
No	x
Please explain:	
<b>Are there any applicable regulations that apply to the production of this item?</b>	
Yes	
No	x
Please explain:	
<b>Are there any other standards / requirements?</b>	
Yes	
No	x
Please explain:	
<b>NAICS CODES:</b>	
NAICS 1	334516 Analytical laboratory instrument manufacturing
NAICS 2	
<b>Additional Comments:</b>	
Additional technical comments:	
<b>Volume and Pricing:</b>	
Estimated Potential Business Volume (i.e. #units per day, month, year):	one-time purchase of a single unit
Estimated Target Price/Unit Cost Information:	\$47,000

**Delivery Requirements:**

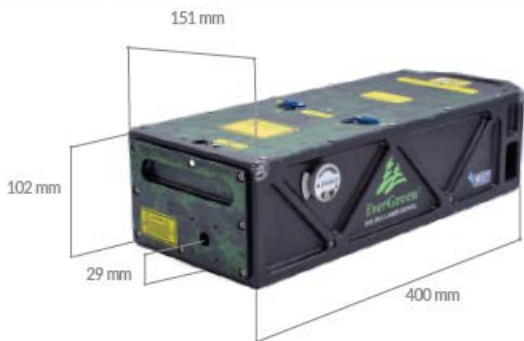
<b>When is it needed by? (Immediate, 30 days, 6 months, etc.)</b>	3 months
<b>Describe packaging requirements (i.e. individually/group packaging, etc.)</b>	crated for safe shipping
<b>Where will this item be shipped?</b>	Durham, NC

**Additional Comments:**

<b>Is there other information you would like to include?</b>	
--	--

## Laser head

---



## Integrated cooling & electronics

---



