CALL FOR EXPRESSIONS OF INTEREST FOR SUPPLY/DEVELOPMENT OF PRECISION MOTORIZED XYZ TRANSLATION STAGE

Expression of Interest is invited for procurement of Precision Motorized Linear Translation XYZ Stage with the following broad and tentative specifications. The Specifications will be finalized after the EoI. All Domestic as well as Global OEMs/Representatives/Suppliers are invited for the EoI.

Item Quantity: 01 Unit

S. No.	Specifications							
1.	Travel range	X: 600mm Y: 100mm Z: 600mmor (300mm stage + 200mm dummy height)						
2.	Application	Discrete Point to point 2D scan						
3.	Load Capacity	10 kg on Z -axis						
4.	Minimum achievable movement	$\leq 1 \ \mu m$ for each axis						
5.	Positioning Accuracy	$\leq 1 \ \mu m$ for each axis						
6.	Bidirectional repeatability	$\leq 1 \ \mu m$ for each axis						
7.	MaximumVelocity	100 mm/s or higher on fullpayload						
8.	Operating Temperature	Covering 15°C to 50 °C range						
9.	Feedback / Encoder	Linear Encoder						
10.	Main power supply for controller	220-250 VAC, Single phase						
11.	Desirable Features	 Interface between controller with computer via Ethernet or RS232 preferable. The stage controller should be compatible with LabVIEW. The bidder should provide detailed features and capabilities of the control software. Tabletop with Metric Dimension Mounting Limit Switches, Mechanical Lock, minimum noise, short settling time, maintenance free are preferred. Other accessories required for full functioning of the stage like power cables, interface cable etc. should be provided. 						

Proposed Application:

We are working on the design and development of holographic display systems for different applications. The stage will be used to scan the 2D holographic plate of maximum size 300 mm x 300 mm. The weight of holographic plate is ~3 kg(total weight with plate holding mount ~ 10 Kg) will be mount on Z-axis and laser beams will be incident from opposite sides on the holographic plate in order to record sub-holograms. Schematic diagram of stages is given below (manufacturer may provide better option, if available, for improved stability and scan). The stage will be mounted on optical table. The position of plate will remain at a particular fixed Y-axis and the plate will be scanned along X- and Z-axes. As plate will be mounted on Z- axis, it could make cantilever, so provide suitable option like counter balancing mechanism to keep holographic plate rigid and stable in whole scanning process even in case of failure of electricity.

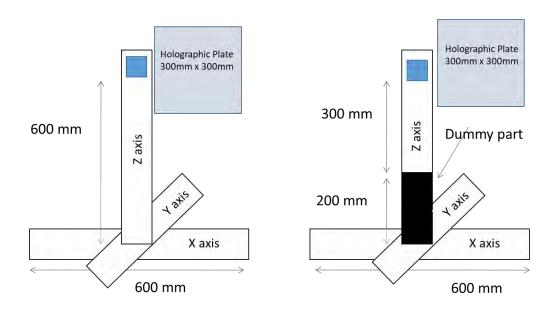


Figure: Schematic representation of stage mountings

Note:

Acceptance criteria:

General:

- Manufacturer should have their service support/ office in India.
- There must be a provision for the remote control of the system for trouble shooting purposes.
- Should provide and quote all the necessary attachments for the system to be fully functional.
- All the technical specifications must be available for inspection in brochures/ catalogues/ application notes/ datasheets/ websites of Principal Manufacturer/OEM.

Warranty and service support:

- 12 months standard warranty from the date of installation/commissioning and final acceptance
- Vender/OEM should quote 02 yrs extended warranty for the system and subsystems after the completion of standard warranty.
- The complete supply must be guaranteed for free repair / replacement and free software upgrades (wherever applicable) during the warranty period.

Installation and commissioning:

• Detailed drawing of the equipment (System dimensions L x W x H), details of power supply requirements or any other requirement for the installation should be intimated with the offer.

Documentation:

• All the documents and software for the system to be supplied in English language. A complete set of original manuals (soft and hard copies) including user manuals, maintenance manuals, troubleshooting tips, built assembly drawings, must be provided.

OEM/Supplier/Vendor criterion:

- Only reputed OEM/suppliers will be considered.
- A user list with the similar systems to be provided.
- Details /contact numbers, e-mail etc. of the place where the systems have been supplied and installed should be mentioned.

A meeting is scheduled at 11:00 AM on 18.10.2022 via below link

Link for meeting: meet.google.com/weo-qwxj-ddu

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