

Laser Beam Steering Mirror with Mounts and accessories

Table 6: Technical specifications of Beam Steering Mirror and accessories

No.	Parameter	Specification	Remarks to Party
1	Application	Reflecting Mirror for transmitting the expanded laser beam vertically into the atmosphere	Provide details including make and model
2	Design Wavelength (DWL)	532 nm	Provide details
3	Mirror Diameter	~200 mm (about 2 times expanded beam diameter)	Provide value
4	Substrate	Suitable material for High-energy pulsed lasers (> 800 mJ energy per pulse at 532 nm)	Provide details
5	Reflectance	≥ 99 % at 532 nm	Provide specification value offered. Provide details of mirror coatings
6	Surface Finish	P-V: $\lambda/10$ or better	Provide value
7	Angle of Incidence	45 degrees	Provide value
8	Laser-Induced Damage Threshold (LIDT) of mirror	≥ 1 J/cm ² at 532 nm, ~10 ns pulse width, ~30 Hz PRF	Provide LIDT value and coating details
9	Beam steering Mount – 2-axis Gimbal Mount (for scanning purpose)	Suitable two-axis Gimbal Mirror Mount, with large travel and fine adjustment capability in elevation and azimuth axes, with provision for locking. Coarse resolution: 0.1° or better; Fine resolution: 0.005° or better; Digital readout is preferred	Provide the elevation range and azimuth range, and their adjustment resolutions, including other specifications
10	Beam steering Mount – Kinematic Mount for 45 degree Mirror	Suitable Kinematic Mount to mount the Beam Steering Mirror at 45 deg, with +/-3 deg fine and coarse adjustment along elevation and azimuth. Coarse resolution: 0.1° or better; Fine resolution: 0.005° or better; Digital readout is preferred	Provide the mount specifications and adjustment resolutions