

POLYGON SCANNING MIRRORS

Coherent produces many types of Polygon Scanning Mirrors including Prismatic, Pyramidal, and Irregular Polygons. Polygon Mirrors are diamond machined on our state of the art equipment to a variety of sizes ranging up to 300mm and facet angle tolerances within 2 arc seconds.

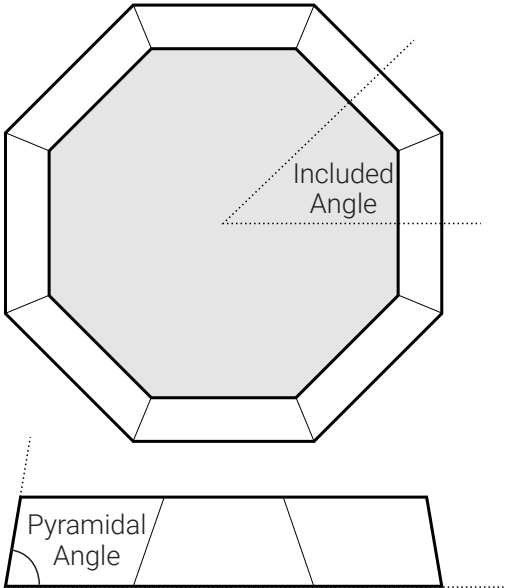


APPLICATIONS

- Bar code reading
- Paint stripping
- 3D printing
- Transponders
- ADAS/Lidar

Protective metal coatings available for IR, NIR, and visible applications.

POLYGON SCANNING MIRRORS



Specification	Capability*
Included Angle	+ 3 Arc Seconds
90 Degree Pyramidal Angle	< 2 Arc Seconds
Other Pyramidal Angle	< 5 Arc Seconds
Facet Radius Tolerance	+ 0.03mm

*Indicates tolerances within Coherent capabilities

Materials	Roughness	Finish
Silicon	60 A	60/4
Germanium	30 A	20/10
ZnSe	30 A	20/10
ZnS	30 A	40/20
Aluminum	50 A	40/20
Copper	30 A	20/10
Nickel-plating	30 A	40/20
Plastics	50 A	40/20