

Small
Business
Innovation
Research

Ultra-Lightweight, Large-Aperture, Space-Based Telescope

Corning OCA Applied Optics
Garden Grove, CA



INNOVATION

Large aperture, all beryllium imaging telescopes that are extremely lightweight, space qualified, scaleable from 0.3 meters to over 1 meter and fully configurable to meet a variety of optical performance requirements

ACCOMPLISHMENTS

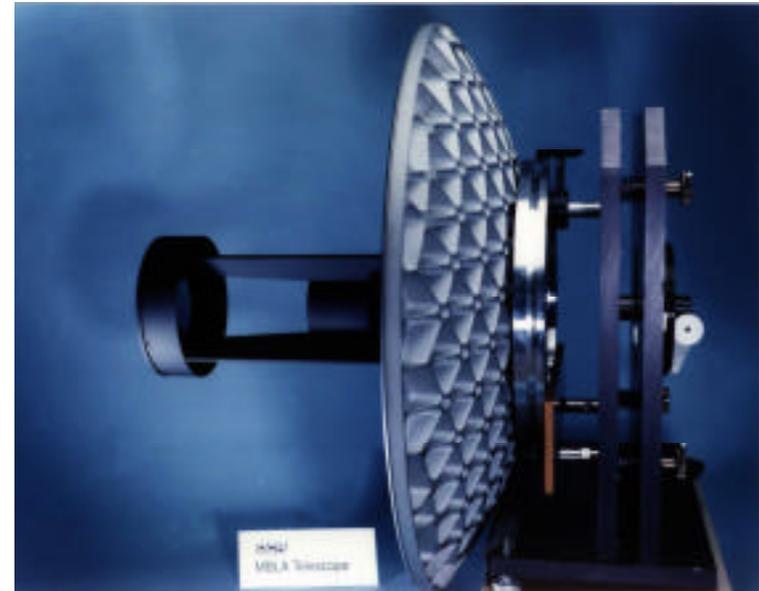
- ◆ All beryllium design achieves maximum optical performance at lowest weight.
- ◆ Scaleable design allows construction of a family of telescopes from 0.3 meters to over 1 meter diameter.
- ◆ Incorporated features that meet rigorous space launch environments.

COMMERCIALIZATION

- ◆ Sales of over \$4M in 1998 and \$3M in 1999.
- ◆ Additional sales of \$2 - \$5M per year are expected starting in 2000.

GOVERNMENTSCIENCE/APPLICATIONS

- ◆ The SBIR-funded all beryllium telescope is being used on the NASA Goddard Vegetation Canopy Lidar (VCL) mission.
- ◆ Two 1 meter diameter beryllium telescopes will be used for the Goddard Geoscience Laser Altimeter (GLAS) Instruments.



OCA MBLA Telescope

GOVERNMENTSCIENCE/APPLICATIONS

- ◆ One meter diameter beryllium telescope mirrors are being produced for the NASA Experimental Lidar in Space Equipment (ELISE) program.
- ◆ The PICASSO-CENA Lidar instrument will utilize a one meter diameter beryllium telescope.

Points of Contact:

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Goddard Space Flight Center

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