

## PRECISION OPTICS AND ASSEMBLIES

High-performance, reliable optics for ground and space-based observation

Dazzling details of Earth and insights into the mysteries of the universe have one thing in common — L3Harris precision optics. High-performance optical components and assemblies have been integral to the world's most sophisticated ground- and space-based telescopes and satellites for more than 50 years.

### SPECIALIZED OPTICS FOR LARGE-SCALE OPTICS

L3Harris provides optomechanical design, optical fabrication, test and assembly capabilities for precision optics solutions and systems. The company manufactures large optical components, including lightweight and solid mirrors in most geometric shapes, to meet low surface microroughness and tight surface figure error specifications. This experience, along with a rigorous metrology and testing program and state-of-the-art in-house facilities, enables us to meet demanding quality and delivery requirements.

L3Harris provides solutions for high-performance systems, including:

- > Ground- and space-based telescopes
- > Solid and lightweight optics for autocollimating systems
- > Lightweight fast-steering mirrors
- > High-energy laser optics
- > Optical test systems
- > Relay mirrors
- > Observation and vacuum compatible viewing windows
- > Grating substrates
- > Inspection instruments
- > Interferometers



L3Harris provides precision optics for the most advanced ground telescopes, like the Keck 1 and Keck 2 at the W.M. Keck Observatory in Hawaii

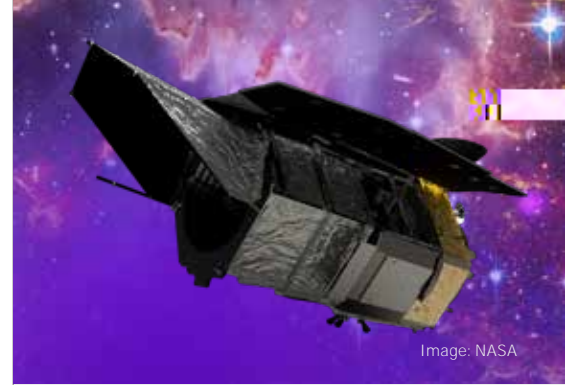


Image: NASA

Wide Field Infrared Survey Telescope (WFIRST)

### BEYOND

- > Meet the most demanding requirements for spatial frequency, mounting and application-specific needs
- > Provide end-to-end capabilities with cost-effective fabrication
- > Create surface finish to less than two-nanometer root mean square (RMS) on glass and glass ceramic materials

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KEY CAPABILITIES

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