

- Masters of Sapphire Fabrication

- Meller Optics Utilizes Proprietary High-Speed Processes to Deliver the Highest Quality Finishes on Sapphire Optical Components

- On-Time Delivery

- Competitively Priced

Truncated Hyper-Hemispherical Sapphire Dome



Our History of Sapphire Innovation

- 1960's: Ruby Laser Rod Utilized by MIT Labs to Measure Distance from Earth to the Moon for Apollo Missions.
- 1970's: Prototype Sapphire Internal Optics for Newly Developed IR Missile Technologies.
- 1980's: DSMAC Tomahawk Cruise Missile Window. Internal Sapphire Optics for the Stinger Missile.
- 1990's: Prototype Sapphire Domes for the ASRAAM Missile and the SM-2MR Block III (MHIP).
- 2000's: Sapphire Lens Array for the Kepler Space Telescope.
- 2010's: Prototype Nano Composite Optical Ceramic Domes. 360° Viewing Hyper-Hemispherical Window.

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High Precision OPTICS for Industry & Defense

Sapphire Windows / Domes / Lenses / Prisms



*Superior quality products
and flawless service since 1921.*

Meller Optics, Inc.

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For Over 60 Years...

Meller Optics has been providing high quality optics to defense, medical, laser and industrial markets. Specializing in grinding and polishing of hard, durable materials such as Sapphire and Spinel, Meller Optics has also developed high-speed, low-cost finishing processes for a variety of Optical Glasses, Fused Silica, Zinc Selenide, Germanium, Silicon, and Fluorides. Configurations include windows, substrates, lenses, domes, and prisms.

Core Capabilities

- ISO 2001:2015 Certified
- ITAR and DFARS Compliant
- Sapphire Windows for Aerospace Applications (Manned & Unmanned)
- Sapphire Windows for Undersea Applications (Manned & Unmanned)
- Sapphire Domes for Missile Applications
- Sapphire Lenses, Prisms & Rods for a Range of Applications

Materials/Processes

- Materials Fabricated
 - Sapphire
 - High Strength Optical Ceramics
 - Optical Glass
 - Zinc Selenide, Zinc Sulfide, Germanium & Silicon
- Processes
 - 5-Axis Machining
 - Ultra-Flat Finishing / Polishing
 - High Precision Spherical Finishing / Polishing

