Technological Breakthroughs in Sapphire Super Dome

● Leading the Future of Precision Optics

After two months of intensive research and development, Ecoptik has successfully achieved significant technological breakthrough for one of important core areas of the optical industry: the Sapphire Super Hemispherical Dome. The achievement marks a leap forward in high-precision optics manufacturing, placing Ecoptik well ahead of competitors in China.

● Sapphire Super Dome — Excellence in Precision and Performance

Ecoptik's newly developed sapphire super hemispherical dome demonstrates exceptional optical quality, surface uniformity, and structural accuracy. This product is ideal for high-demand applications such as infrared systems, aerospace optics, and advanced imaging technologies.

● Key Technical Specifications:

Surface Quality: 40-20
Peak-to-Valley (PV): 0.5
Root Mean Square (RMS): 0.08
Radius Tolerance: ±0.02 mm
Dimension Tolerance: ±0.02 mm
Overall Height: > 1 mm

With impeccable fringes and optical clarity, this sapphire dome sets a new benchmark in the field.

At **Ecoptik**, we are committed to pushing the boundaries of optical innovation. Our continuous investment in R&D and high-precision manufacturing ensures we deliver world-class products that empower next-generation optical systems.

Contact us today to learn how our advanced components can elevate your optical solutions.

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