

Custom Sapphire Optics

Custom Sapphire Optics feature flatness to 1/10th wave, thickness to within ± 0.00001 in., parallelism to 2 arc-sec. in./in., and surface finishes to ≤ 0.5 nm, with coatings that enhance transmission to $> 99\%$, depending upon thickness. Manufactured to specification, configurations can include balls, ultraflat windows and waveplates, plano-concave and -convex lenses, wedges, wedged windows, squares, and nearly hemispherical domes. Providing diameter tolerances to ± 0.001 in., depending upon size and configuration, the custom sapphire optics can include balls from 0.005 in. to 0.5 in. dia., windows and substrates up to 18 in. round, and domes up to 6 in. dia. With precision mounting holes and/or steps.

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<http://www.mdtmag.com/product-releases/2004/02/custom-sapphire-optics>