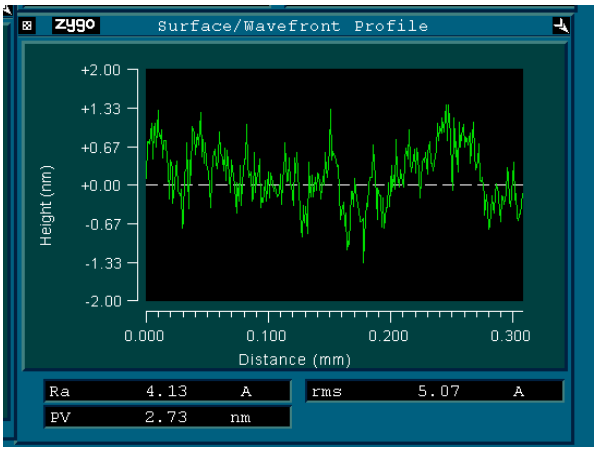
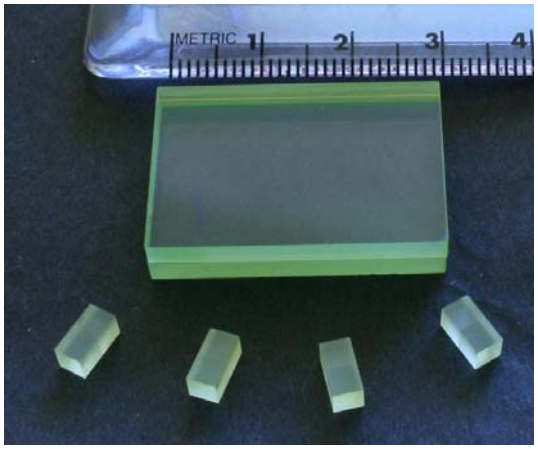
precisionphotonics





PPC introduces Sapphire and Phosphate glass polishing

BOULDER, Colorado (November 6, 2008): In addition to recent advancements in polishing and bonding of optical grade silicon, Precision Photonics Corporation (PPC) has recently completed development of advanced polishing processes for phosphate, sapphire and Ti:sapphire materials as well. Despite being considered difficult materials to polish, PPC has successfully manufactured plano surfaces of up to 2" in diameter to $\lambda/10$ peak-to-valley flatness with 10-5 surface quality and RMS surface roughness of less than 6 angstroms.

Sapphire is used for many applications in the infrared and semiconductor industry because of its incredible hardness. Highly polished sapphire substrates and assemblies are ideal for use as high energy waveguides, windows, laser amplifiers and low-order waveplates where durability and chemical resistivity are key requirements. PPC can provide ion-beam-sputtered (IBS) anti-reflection, beamsplitter and high-reflection coatings on sapphire and other optical materials from 266 nm to 2200 nm.

Phosphate glasses offer a variety of dopant levels for solid state laser applications, but they are softer and more chemically sensitive than many other glass types. PPC has developed processes to polish, coat and optically bond phosphate in several custom configurations for range finders and other LIDAR applications.

About Precision Photonics:
Precision Photonics Corporation (PPC) manufactures optical coatings, components and assemblies for applications in telecommunications, defense, aerospace, biomedical, and semiconductor manufacturing by taking advantage of our diverse backgrounds in spectroscopy, precision metrology, and high-volume manufacturing. Whether it's a tight spec, tight delivery or quick ramp up, we work with you to make the impossible possible.

For more information visit PPC at www.precisionphotonics.com or contact:

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