

## Super Polished Substrates and Mirrors

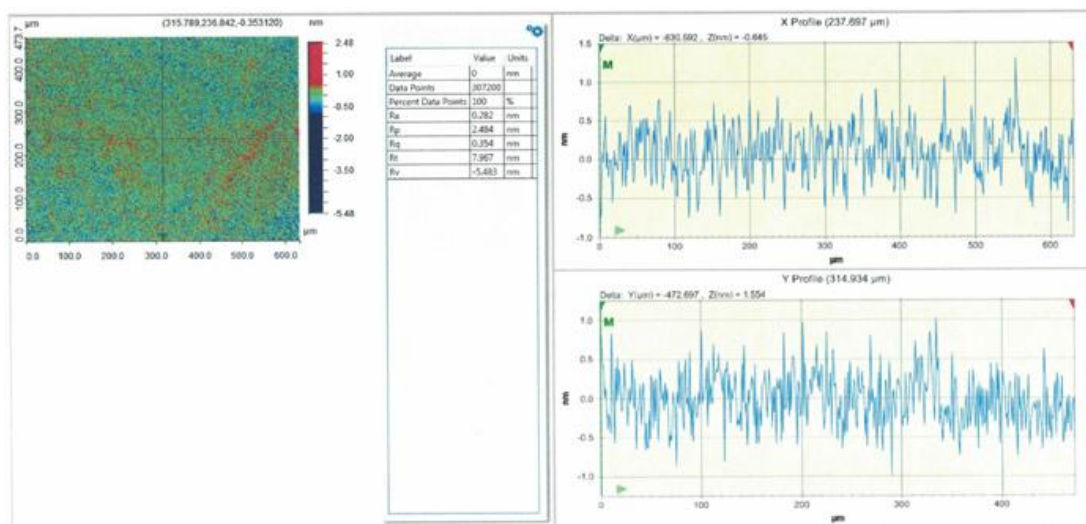
Super polished substrates or mirrors are necessary for some demanding applications like laser gyroscopes. Shalom EO offers the **super-polished mirrors** or substrates, with extra high flatness, roughness and surface quality, a variety of substrate materials are available for customer's selection.



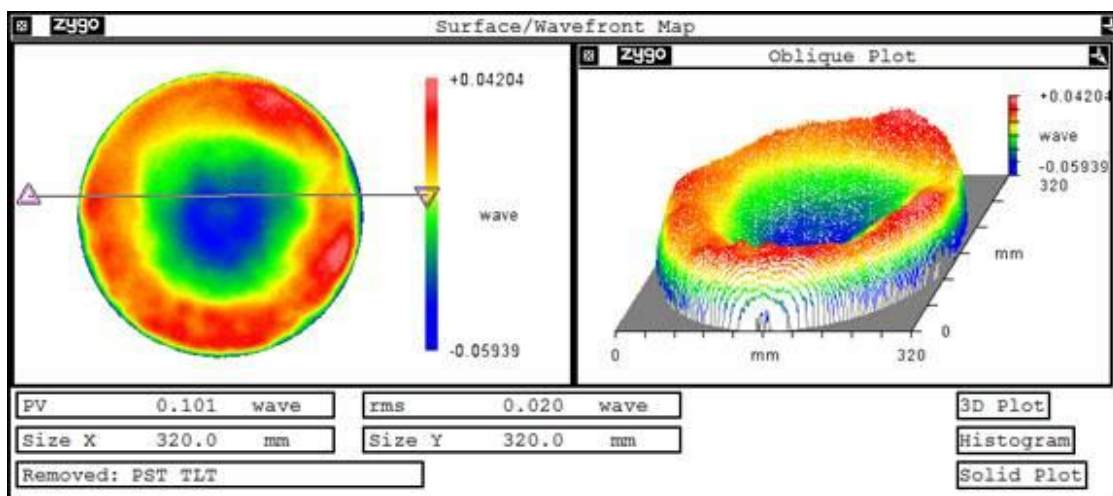
Material Specifications	ZnSe ,ZnS	Ge,Si,CaF2, MgF2,AMTIR	Fused Silica, Zerodur	Sapphire
<b>Diameter</b>	up to Φ300mm	up to Φ300mm	up to Φ350mm	up to Φ300mm
<b>PV</b>	PV≤0.1λ @ 632.8nm	PV≤0.1λ @ 632.8nm	PV≤0.1λ @ 632.8nm	PV≤0.15λ @ 632.8nm
<b>rms</b>	rms≤0.02λ @ 632.8nm	rms≤0.02λ @ 632.8nm	rms≤0.02λ @ 632.8nm	rms≤0.03λ @ 632.8nm
<b>Roughness</b>	≤0.2nm	≤0.2nm	≤0.1nm	≤0.5nm

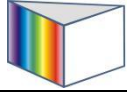
**Note:** Other custom specifications is available upon customer's request.

Roughness of Super-polished Surface Measured by Atom Force Microscope (AFM)  
(Fused Silica Substrate with Diameter 200mm, Ra=0.28nm)



Flatness of Super Polished Surface Measure by Zygo Interference Instrument  
(Fused Silic Substrate of Diameter 300mm, PV=0.101 Wave @633nm)





**Shalom EO**  
Crystals, optics and components

Hangzhou Shalom Electro-optics Technology Co., Ltd.

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