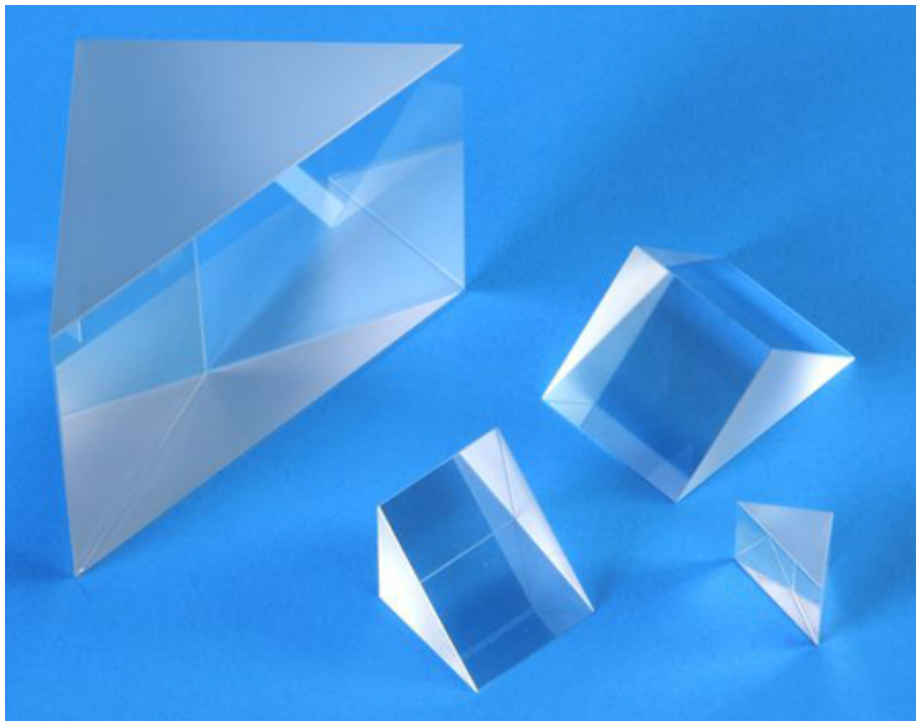




Standard Prisms

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Product Description

Prisms are transparent optical blocks having at least two flat polished sides inclined relative to each other, at precisely controlled angles, so as to deflect, deviate, and rotate beams of light as well as dispersing their wavelengths. There are many types of prisms, each having a particular shape to achieve the necessary reflections to perform a specific optical task.

Tower Optical's prism capability includes Penta Prisms, Right Angle Prisms, Dove Prisms Roof Prisms, Corner Cube Reflectors, Anamorphic Prisms, Wedge Prisms and Polarizers called Glan-Taylor Prisms, Wollaston Prisms and Rochon Prisms.

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For right angle prisms, Tower Optical offers three different quality standards: Standard Grade, High Grade and Laser Grade.

The basic specifications are shown below.

Specification	Standard Grade	High Grade	Laser Grade
Material	BK7 grade A glass	BK7 grade A glass	BK7 grade A glass
Dimensional Tolerance	±0.2mm	±0.1mm	±0.1mm
Flatness	$\lambda/2$ @ 632.8nm	$\lambda/4$ @ 632.8nm	$\lambda/10$ @ 632.8nm
Surface Quality	60/40 Scratch/Dig	40/20 Scratch/Dig	20/10 Scratch/Dig
Angle tolerance	±3 arc minutes	±30 arc seconds	±30 arc seconds
Pyramid Error	< 10 arc minutes	< 10 arc minutes	< 5 arc minutes
Bevel	0.2~0.5mm x 45°	0.2~0.5mm x 45°	0.25mm x 45°

These prisms are also available in UV grade Fused Silica as well as other material. Optical coatings are also available for AR, Mirror or beamsplitter applications.

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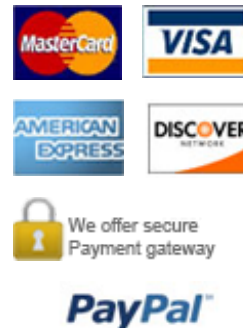
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