

# Littrow Prisms

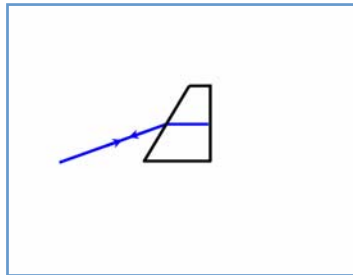


Littrow prisms are retro-reflecting dispersing prisms which have been arranged so that a beam entering at the Brewster angle undergoes minimum deviation and hence maximum dispersion.

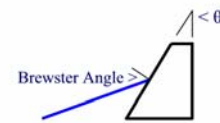
The accuracy of these prisms is con-

trolled by the precision of the prism angles. They are made to an accuracy of 10 arc minutes.

They are used in laser cavities to fine tune lasers by selection of wavelength. By altering the angle of incidence



The apex angle,  $\theta$  is  $55^\circ 32'$



slightly it is possible to enhance certain wavelengths and eliminate others. These prisms have a very low loss for the p-polarized beam.

We offer Littrow prisms uncoated but special coatings can be applied on request.

These prisms are made from UV fused silica:  
UVFS ( $n_d = 1.46$ ,  $v_d = 67.8$ )

We can supply Littrow prisms in the following standard sizes (in mm):

Diameter	Height
12.7	12.7
19.1	19.1
25.4	25.4

Typical Specifications	
Material:	UVFS
Surface flatness:	$\lambda/10$ @ 633 nm
Surface quality:	10/5
Angle $\theta$ : $\pm$	$\pm 10$ arcmin
Dimensions:	+0.0 / -0.2 mm
Clear aperture:	> 85% of face

Other sizes will be considered on special request.

To request a quote or to order, please specify:

Quantity — Diameter — Coating (if required)

## Optarius

PO Box 2271  
Malmesbury SN16 9FA  
United Kingdom

### Optics for Lasers

Phone: +44 1666 575185  
Fax: +44 1666 577424  
Email: [optarius@optarius.com](mailto:optarius@optarius.com)  
Web: [www.optarius.com](http://www.optarius.com)

For a quotation — please phone, fax or email us with details of your requirements.