



高ダメージしきい値波長板 Waveplates

General Capabilities

- Zero, low or multi-order
- Ultra thin & large aperture
- Single, dual wavelength or achromatic

Background

Gooch & Housego manufacture and supply optical components to many of the worlds leading laser manufacturers and have been producing high quality retardation plates in natural and cultured quartz for many decades. Experience in selecting, orientating, cutting and polishing quartz crystals enables production of all types of waveplates including large aperture waveplates, up to 100mm in diameter. We currently manufacture the highest energy density threshold waveplates commercially available.

Types of Waveplate

Waveplates can be supplied mounted or un-mounted and can be anti-reflection coated using in-house facilities. A full range of coating options is available; broadband, V and W coatings and coatings for high power applications.

- 1/4, 1/2 or specific 1/n wave retardation
- Air-spaced, optically contacted or cemented
- Any specific axis orientation
- Wavelength ranges UV, VIS, IR
- Broadband achromatic doublets, Quartz & MgF₂

Available Specifications (@1064nm)

Retardation Tolerance:	$\lambda/500$ at 20 °C
Wave-Front Distortion:	$< \lambda/10$
Wavelengths:	243nm to 1550nm
AR Coatings:	R < 0.15%, v-coat
Damage Threshold:	$> 3\text{GWcm}^{-2}$ $> 12\text{Jcm}^{-2}$ for 3.5ns pulse @ 1064nm
Scratch-dig:	10-5 (20-10 available for lower cost)
Sizes:	5 to 100mm, custom sizes also available
Thickness:	from 75 μm
Parallelism:	0.5 arc seconds
Optic Axis:	Normal to edge-flat

Many waveplates are available ex-stock, please enquire



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