

LASER LINE ANTI-REFLECTION COATED PRECISION WINDOWS

Features

- Made of premium quality UV FS and BK7
- AR coated at 266 nm, 355 nm, 532 nm, 1064 nm

Precision windows are mostly used in laser systems. High quality AR multilayer coatings are applied on windows for fundamental Nd:YAG laser 1064 nm, frequency-doubled 532 nm, frequency-tripled 355 nm and

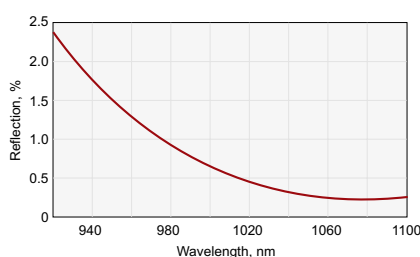
frequency-quadrupled 266 nm applications. Featuring high optical transmission with little distortion of the transmitted signal, precision windows are a good solution for applications that require protective windows.

Specifications

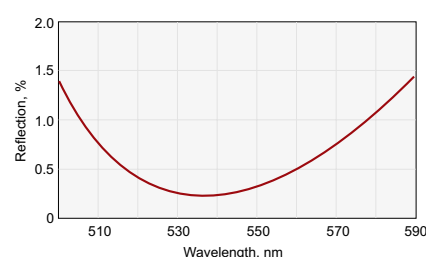
Material	BK7, UV FS
Surface quality	20 –10 scratch & dig (MIL-PRF-13830B)
Clear aperture	90% of the diameter
Diameter tolerance	+0.00; -0.12 mm
Thickness tolerance	±0.2 mm
Surface flatness	$\lambda/10$ @ 633 nm
Parallelism	30 arcsec or 3 arcsec

Coating

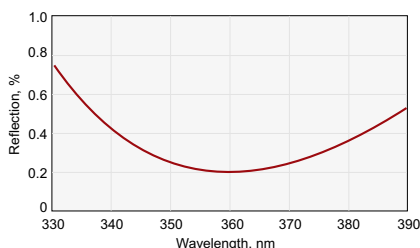
Technology	Electron beam multilayer dielectric
Adhesion and Durability	Per MIL-C-675A. Insoluble in lab solvents
Clear Aperture	Exceeds central 85% of diameter
Damage Threshold:	
BK7	$>5 \text{ J/cm}^2$, 8 nsec pulse, 1064 nm
UV FS	$>10 \text{ J/cm}^2$, 8 nsec pulse, 1064 nm
Angle of Incidence	0 degrees
Coated Surface Flatness	$\lambda/10$ at 633 nm over clear aperture



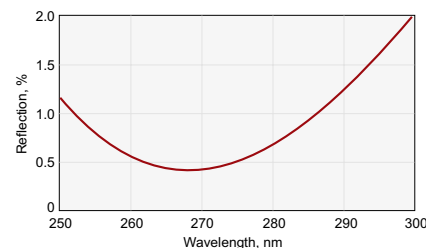
$R < 0.25\% @ 1064 \text{ nm } \text{AOI} = 0^\circ$



$R < 0.25\% @ 532 \text{ nm } \text{AOI} = 0^\circ$



$R < 0.25\% @ 355 \text{ nm, } \text{AOI} = 0^\circ$



$R < 0.4\% @ 266 \text{ nm, } \text{AOI} = 0^\circ$

PARALLELISM 30 arcsec

Wavelength, nm	Diameter D, mm	Thickness T, mm	BK7	UV FS
			Catalogue number	Catalogue number
266	12.7	3.0	–	224-1101E
355	12.7	3.0	–	223-1101E
532	12.7	3.0	222-0101E	222-1101E
1064	12.7	3.0	221-0101E	221-1101E
266	25.4	6.0	–	224-1201E
355	25.4	6.0	–	223-1201E
532	25.4	6.0	222-0201E	222-1201E
1064	25.4	6.0	221-0201E	221-1201E
266	38.1	8.0	–	224-1402E
355	38.1	8.0	–	223-1402E
532	38.1	8.0	222-0402E	222-1402E
1064	38.1	8.0	221-0402E	221-1402E
266	50.8	10.0	–	224-1502E
355	50.8	10.0	–	223-1502E
532	50.8	10.0	222-0502E	222-1502E
1064	50.8	10.0	221-0502E	221-1502E

PARALLELISM 3 arcsec

Wavelength, nm	Diameter D, mm	Thickness T, mm	BK7	UV FS
			Catalogue number	Catalogue number
266	12.7	3.0	–	224-1103E
355	12.7	3.0	–	223-1103E
532	12.7	3.0	222-0103E	222-1103E
1064	12.7	3.0	221-0103E	221-1103E
266	25.4	6.0	–	224-1203E
355	25.4	6.0	–	223-1203E
532	25.4	6.0	222-0203E	222-1203E
1064	25.4	6.0	221-0203E	221-1203E
266	38.1	10.0	–	224-1403E
355	38.1	10.0	–	223-1403E
532	38.1	10.0	222-0403E	222-1403E
1064	38.1	10.0	221-0403E	221-1403E
266	50.8	12.0	–	224-1503E
355	50.8	12.0	–	223-1503E
532	50.8	12.0	222-0503E	222-1503E
1064	50.8	12.0	221-0503E	221-1503E

Related Products

Uncoated Precision Windows

See page 1.10

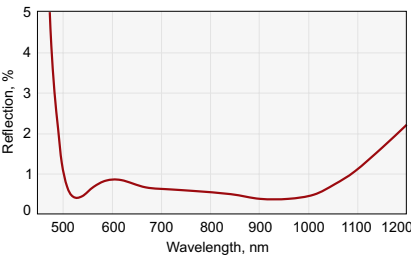
AR COATED LENS KITS



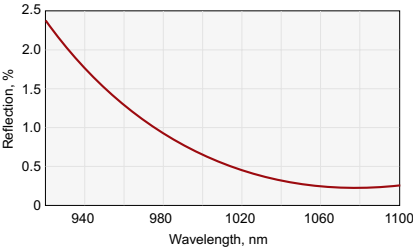
Lens kits contain different types of spherical (plano-convex, biconvex, plano-concave, biconcave) or cylindrical (plano-convex, plano-concave) lenses with various focal lengths. Kits are packed into foam lined plastic boxes for safe handling and storage. Kits are available with laser line and broadband multilayer anti-reflection coatings.

Spherical lens kits consist of 40 (large kit) or 15 (small kit) Ø25.4 mm lenses made of UVFS or N-BK7.

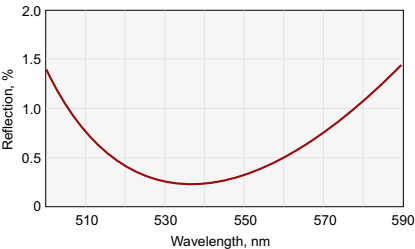
Cylindrical lens kits consist of 12 rectangular lenses (25.4 x 50.8 mm) made of UVFS or N-BK7.



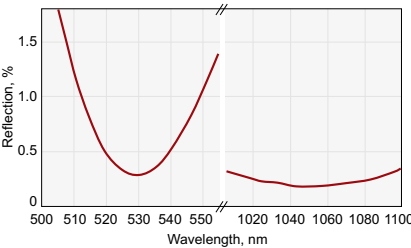
R<1.5% @ 500-1100 nm, AOI=0°



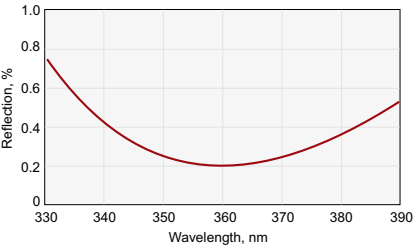
R<0.25% @ 1064 nm AOI=0°



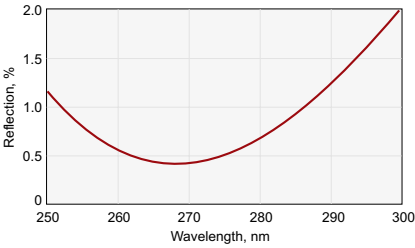
R<0.25% @ 532 nm AOI=0°



R<0.5% @ 532 nm+1064 nm, AOI=0°



R<0.25% @ 355 nm, AOI=0°



R<0.4% @ 266 nm, AOI=0°



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本社：〒134-0088 東京都江戸川区西葛西6-18-14 T.I.ビル

Tel. 03-3686-4711

営業所：〒532-0003 大阪府大阪市淀川区宮原4-1-46 新大阪北ビル

Tel. 06-6393-7411

URL: <https://www.tokyoinst.co.jp> Mail: sales@tokyoinst.co.jp



超高真空・極低温走査型プローブ顕微鏡
高速分光測定装置、クライオスタット



Nd:YAGレーザー、Ti:Sレーザー
OPOLレーザー

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