

Optics

Optical Systems

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Cylindrical Lenses

Aspheric Lenses

Mirrors

Diffusers & Lens Arrays

Windows

Prisms

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Polarization Optics

Beamsplitters

Filters & Attenuators

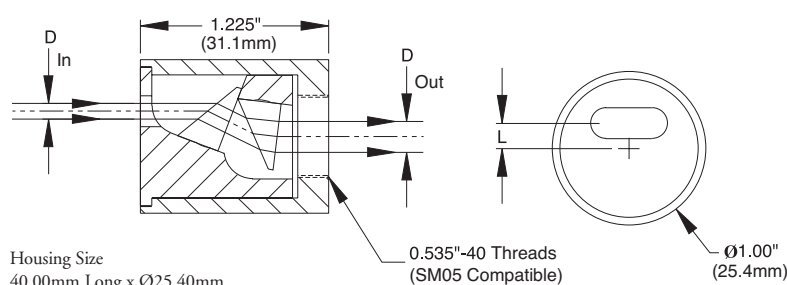
Gas Cells

Anamorphic Prism Pairs

Anamorphic Prism Pairs are used to transform elliptical laser diode beams into nearly circular beams. An average throughput of 95% can be achieved by carefully designing the prism pair optical system. The prisms must be oriented so that the light is incident at Brewster's angle and each surface must be coated with an AR coating specifically designed for the wavelength, angle, and high index SF11 glass.

Specifications

- Material: SF11
- Dimensional Tolerances: $\pm 0.15\text{mm}$
- Angular Tolerances: $\pm 10\text{arcmin}$
- Surface Quality: 40-20 Scratch-Dig
- Surface Flatness: $\lambda/10$
- AR Coatings: High-Performance MultiLayer Antireflective Coatings 650-1050nm and 1050-1620nm



Visible to Near IR Mounted Anamorphic Prism Pairs – AR Coated 650-1050nm

ITEM #	\$	£	€	RMB	ANAMORPHIC MAGNIFICATION @ 670nm	INPUT OFFSET L (mm)
PS875-B	\$ 319.30	£ 201.20	€ 296.90	¥ 3,049.30	2.0	3.9
PS876-B	\$ 319.30	£ 201.20	€ 296.90	¥ 3,049.30	2.2	4.2
PS877-B	\$ 319.30	£ 201.20	€ 296.90	¥ 3,049.30	2.5	4.6
PS878-B	\$ 319.30	£ 201.20	€ 296.90	¥ 3,049.30	2.8	4.7
PS879-B	\$ 319.30	£ 201.20	€ 296.90	¥ 3,049.30	3.0	4.8
PS880-B	\$ 319.30	£ 201.20	€ 296.90	¥ 3,049.30	3.2	5.0
PS881-B	\$ 319.30	£ 201.20	€ 296.90	¥ 3,049.30	3.5	5.1
PS882-B	\$ 319.30	£ 201.20	€ 296.90	¥ 3,049.30	3.8	5.2
PS883-B	\$ 319.30	£ 201.20	€ 296.90	¥ 3,049.30	4.0	5.3

*Price includes AR coating

IR Mounted Anamorphic Prism Pairs – AR Coated 1050-1620nm

ITEM #	\$	£	€	RMB	ANAMORPHIC MAGNIFICATION at 670nm	INPUT OFFSET L (mm)
PS875-C	\$ 319.30	£ 201.20	€ 296.90	¥ 3,049.30	2.0	3.9
PS879-C	\$ 319.30	£ 201.20	€ 296.90	¥ 3,049.30	3.0	4.8
PS883-C	\$ 319.30	£ 201.20	€ 296.90	¥ 3,049.30	4.0	5.3

*Price includes AR coating

Unmounted Anamorphic Prism Pairs



SPECIAL NOTE ON UNMOUNTED PAIRS

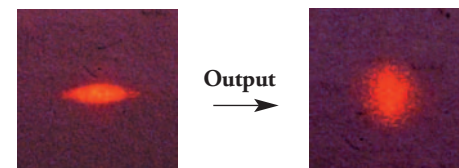
The anamorphic expansion (one-dimensional expansion) of our prism pairs can be adjusted by changing the angles α_1 and α_2 and the offset between the prisms. Visit www.thorlabs.com for details on angular dependence of expansion.

Prism Pair Only (Unmounted Prisms)

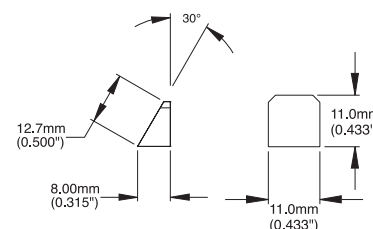
ITEM #	\$*	£*	€*	RMB*	AR COATING RANGE
PS870	\$ 113.30	£ 71.40	€ 105.40	¥ 1,082.00	Uncoated
PS871-B	\$ 143.20	£ 90.20	€ 133.20	¥ 1,367.60	650-1050nm
PS872-C	\$ 143.20	£ 90.20	€ 133.20	¥ 1,367.60	1050-1620nm

* Price is per pair

Pre-Aligned and Mounted



Photograph of an actual 635nm beam from a Hitachi laser diode beam before and after an anamorphic prism pair.



See Our Selection of Cylindrical Lenses on Page 729