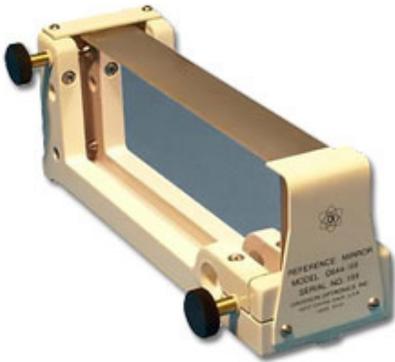


Adjustable Reference Mirrors | D-644



Model D-644 transfer mirrors are used when two or more surfaces are too far apart to be aligned and must be observed through a single autocollimator with reasonable aperture size. The cost of autocollimators with an aperture large enough to cover a comparable area are exorbitant, but this function can be performed inexpensively by aligning one moderately priced autocollimator to the large D-644 reference mirror. By sharing the aperture of the autocollimator, the

D-644 allows any number of optical surfaces to be aligned within 1 arc second by simply repositioning the autocollimator.

These rectangular mirrors also find use when space is too limited for the larger base and diameter of a mounted circular mirror. The D-644 have bases less than 4 inches (10 cm) square. Exceptionally fine azimuth and elevation screws (120 threads per inch) provide precise adjustment when positioned either horizontally or vertically.

Model D-644-101: Coating on front surface only.

Model D-644-106: Both sides are coated and is plane parallel to 1 arc second or better.

- **Enlarges autocollimator effective aperture**
- **Gives large mirror coverage on a small mounting base**
- **Usable in either vertical or horizontal position**
- **Flatness certified traceable to NIST**

Specifications		
Mount:	Material:	Aluminum alloy
	Finish:	Ivory enamel
	Overall Dimensions: (L x W x D)	10.5 x 4 x 4 inch (267 x 102 x 102 mm)
Mirror:	Material:	Pyrex/ Zerodur
	Flatness:	$\lambda/8$ Transfer deviation along 9-inch length = 1 arc sec, maximum
	Coating:	Aluminized, and overcoated per MIL-M-13508
	Surface Quality:	80/50 per MIL-O-13830
	Overall Dimensions: (L x W x D)	9 x 3 x 1.5 inch (229 x 76 x 38 mm)
Carrying Case:		Fitted hardwood
Weight:		6 lbs (2.7 kg)
Shipping Weight:		15 lbs (6.8 kg)

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