

Davidson Optronics

A TRIOPTICS COMPANY

Putting Your Future in Focus

Adjustable Reference Mirror | D-615 & D-616



Model D-615 First Surface Adjustable Reference Mirrors are ideally suited to applications where reflecting surfaces must be positioned a true 90° to the surfaces on which they rest. Applications include calibration of surface plates, angle blocks, precision squares, and optical elements.

Model D-616 Plane Parallel Adjustable Reference Mirrors have both front and back surfaces of the mirrors polished and parallel within one second of arc to permit their use from either side.

The mirrors are gripped firmly, but without distortion, in steel mounts that rest on three stainless steel feet. Two of these feet are designed to ride against a straightedge when checking

flatness or straightness of surface. Displacement of the leading foot up or down approximately 0.000 1 inch (0.025 μm) indicates an angular change of one arc second. Two extremely fine adjustment screws with low-friction nuts permit easy adjustment to one arc second. The mirrors may be used in either vertical or horizontal position without affecting adjustability, accuracy or stability.

Model D-615 and D-616 mirrors are useful in determining minute angular changes in gyro rate tables, turntables, rotary tables, and other mechanisms that move relative to a fixed surface.

- **Flatness compatible with highly sensitive autocollimators**
- **Compact for use in tight quarters**
- **Can be positioned vertically or horizontally with equal stability**
- **Fine adjustment screws allow fast, precise alignment**
- **Rigid solid steel mount**

Optional Accessories

- **D-291 4 inch (102 mm) Carriage Sled**
- **D-292 5 inch (127 mm) Carriage Sled**

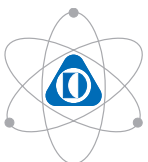
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Specifications		
Mirrors:	Material:	Zerodur or Fused Silica
	Flatness:	$\lambda/8$
	Parallelism:	Coated surfaces of the D-616 mirror are parallel to 1 arc sec
	Coating:	Aluminized and overcoated
	Surface Quality:	80/50 per MIL-O-13830
	Overall Dimensions:	3.5 x 1.87 x .97 inch (89 x 48 x 25 mm)
	Usable Surface Dimensions:	1.75 x 2.75 inch (45 x 70 mm)
Mount:	Material:	Steel
	Finish:	Ivory enamel
	Adjustable Screws:	Brass in a delrin insert
	Maximum Adjustment:	Azimuth 4°, elevation 2°
	Feet:	Three stainless steel pads for 3 – point suspension
Carrying Case:		Hardwood
Weight:		3 lbs (1.4 kg)
Shipping Weight:		5 lbs (2.3 kg)



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