



271 Tilt Collimator

With displacement & infinity targets

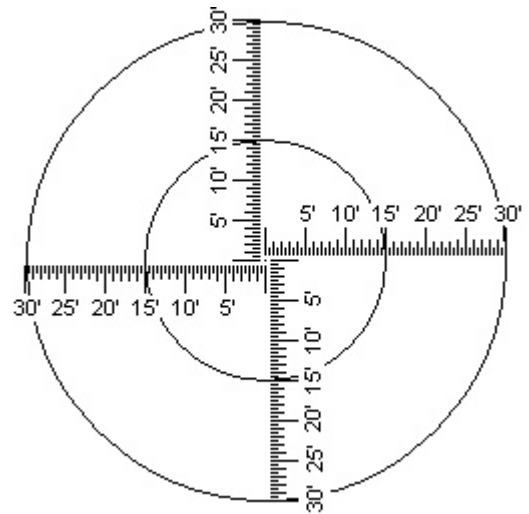
Our 271 tilt collimator provides two reticles ("near" and infinity) for optical instrument testing and evaluation. A top-mounted spirit level vial lets you set the collimator's reticle pattern in a plumb orientation. The infinity target is graduated for angular measurement estimations, with a resolution of 30 arcseconds and a range of ± 30 arc minutes in two directions (see illustration below, right). The paired-line "near" target allows offset measurements when using instruments with micrometers. The steel barrel is hardened and ground, and meets A.I.A. specifications.



Backlight illumination for the internal targets is supplied by our model 509 Light Source (included). The 271 may be mounted on bases such as our models 88-6 or 89, or used with a spherical mounting system or "V" blocks. Custom mounting hardware is available on request.



The "near" target (left) has multiple paired lines for easy location and registration. The infinity target (right) is graduated for ± 30 arc minutes of angular displacement. The photo below right shows the 271's light source connected for target backlighting.



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Specifications

Barrel: Barrel meets A.I.A. specifications with an outside diameter of 2.2495" to 2.2498". Length is 11 1/8" (28.3 cm) and overall instrument length is approximately 14" (35.5 cm).

Infinity target: Graduated in 30 arcsecond increments with a range of ± 30 arc minutes. Five arc minute graduations are numbered for rapid reading. Two circles at 15 arc minute intervals are concentric with the center of the target pattern.

Displacement ("near") Target: Paired line pattern with three spacings (0.008", 0.025" and 0.082") between the paired lines for use at all distances up to 100 feet. (A 0.092" radius circle target is also included.)

Case: Plastic with foam cushions.

Approximate weights: Instrument, including light source, 18 lbs (8.2 kg); instrument and case, 24 lbs (10.9 kg); shipping, 26 lbs (11.8 kg).