

MRA-50 Autocollimator Data Sheet (1 July 2014)

1.0 Introduction

The MRA-50 is a compact pinhole autocollimator that provides a visual representation of angular alignment.

2.0 Manufacturer

Micro-Radian Instruments, 485 W Horton Road, Bellingham, WA 98226 USA

3.0 General Specifications

Recommended maximum working distance	1 meter
Emitted beam diameter (nominal)	18 mm
Recommended minimum target mirror size	5 mm diameter
Maximum angular measuring range	±3600 arc-seconds
Resolution (typical)	5 arc-seconds
Pinhole diameter	100 microns, subtends 100 arc-seconds
Eyepiece magnification	20X
Reference reticle (optional)	10x10 grid or crosshairs with concentric circles
Light source	T1 incandescent bulb standard (white LED optional)
Power input requirements	120VAC (220VAC optional)
Weight	297 g

4.0 Housing

All housing components are machined from a solid block of 6061 aluminum and black anodized inside and out. There are no identification markings on the body.

5.0 Electronics

The MRA-50 is a purely visual device and contains no electronics. A 120VAC (or 220VAC) plug-in power supply is provided to power the autocollimator light source. Image viewing is done through an adjustable focus eyepiece.

6.0 Calibration

The MRA-50 pinhole diameter subtends 100 arc-seconds (nominal). There is no electronic calibration and the autocollimator does not require recalibration.

7.0 Outline and Mounting (Inches)

