Laser autocollimator

Model: MC030-JG50

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Product image

Original product title: 激光自准直仪

Product overview

This autocollimator uses a laser light source. Its compact design and wide field of view support angle measurement and parallelism measurement of multiple light spots. Standard products use a 650nm semiconductor laser and support both internal and external light-source modes.

Applications

Applications include angular measurement and parallelism measurement of laser spots. The source describes central accuracy down to ±0.5″ and a standard field of view of 1~3° across the range. The compact modular instrument can be used independently or mounted on a stand. The light source has an independent switch, and internal/external light-source measurement modes can be selected. Individual model specifications apply.

Technical specifications

Parameter	Source data
Objective focal length	50mm
Objective aperture	25mm

Parameter	Source data
Clear aperture	20mm
Light source type	650nm Semiconductor laser
Spot diameter	2mm
Field of view (X, Y)	□ ±0.5° (within 200mm)
Indication error	±1000″≤ ±2″ ; Full range≤ ±5″
Detector type	High-precision area-array detector
Display and control	Software control on WINDOWS
Overall dimensions	145*52*58mm
Notes	Hardware or software can be customized to user requirements

Use and verification notes

Compiled from the saved official source. Resolution is not accuracy. Preserve the stated range, environment and configuration conditions. Selection and acceptance are subject to the technical specification agreed by both parties.

Related standards for reference

References below distinguish product standards from application methods. They do not constitute product certification or evidence of conformity. Adoption, applicable editions, test conditions and acceptance requirements are subject to the technical agreement confirmed by both parties.

• JB/T 8232-2024 Autocollimators — Product standard reference

Application relationship: Product-standard candidate; confirm model applicability and inspection records. No conformity claim.

Official reference: https://std.samr.gov.cn/hb/search/stdHBDetailed?id=2A77AF2B5400A92BE06397BE0A0AEC68

• GB/T 17421.1-2023 Machine tool testing — No-load or quasi-static geometry — Application method reference

Application relationship: Application, geometrical specification or evaluation reference; not a claim of instrument conformity.

Official reference: https://openstd.samr.gov.cn/bzgk/std/newGbInfo?hcno=78933E2E34BF89D2AA942DF59B0DEB4C

• ISO 230-1:2012 Machine tools — Geometric accuracy under no-load or quasi-static conditions — Application method reference

Application relationship: Application, geometrical specification or evaluation reference; not a claim of instrument conformity.

Official reference: https://www.iso.org/standard/46449.html

• ISO/TR 230-11:2018 Measuring instruments for machine tool geometry tests — Application method reference

Application relationship: Instrument-selection technical report, not a manufacturing or product-certification standard.

Official reference: https://www.iso.org/standard/71882.html

• ISO 14253-1:2017 GPS — Conformity decision rules — Application method reference

Application relationship: Application, geometrical specification or evaluation reference; not a claim of instrument conformity.

Official reference: https://www.iso.org/standard/70137.html

Source: https://www.cnbai.net/product.php?productId=89

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