Zhongji high-speed electronic autocollimator maximum measuring distance 30m

Model: Model not stated on the source page · Catalogue no.: YR-054

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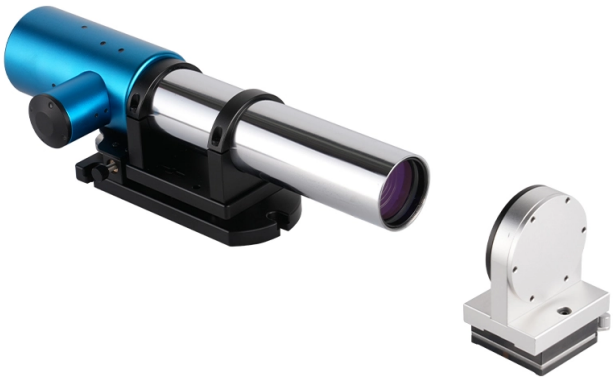

Product image

Original product title: 中机高速光电自准直仪 最大测量距离30m

Product overview

The MC030-ZJHS high-speed electronic autocollimator series combines a precision imaging system with a high-speed photoelectric detector. The source describes sampling rates of 100HZ, 200HZ, 500HZ or higher across the series. Applications include dynamic monitoring of small angles and online inspection of geometric accuracy. The individual model specifications determine the applicable sampling rate.

Applications

Machine tools: guideway straightness, parallelism and perpendicularity, and flatness of large surface plates. Optics: assembly, alignment and prism-angle measurement. Metrology and research: verification and calibration of measuring instruments and tools, precision angle measurement, dynamic monitoring of angular position, and angular or straightness-error measurement of moving products. Marble inspection: straightness, parallelism, perpendicularity and flatness. Encoders: angular-encoder positioning accuracy and repeatability.

Technical specifications

Parameter	Source data
Objective focal length	300mm
Clear aperture	48mm
Maximum measuring distance	30m
Field of view	2100*1600″
Resolution	0.1″ (adjustable)
Indication accuracy	±600″± 0.5″
Light source type	Imported high-power LED
Communication	USB2.0
Signal acquisition	High-precision photoelectric sensor
Display method	Software display on a standard PC
Instrument dimensions (L*W*H)	390*135*125mm
Power supply	Integrated power supply
Sampling rate	up to 200HZ

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=54

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