# Zhongji automatic-measurement autocollimator maximum measuring distance 30m

Model: Model not stated on the source page · Catalogue no.: YR-039

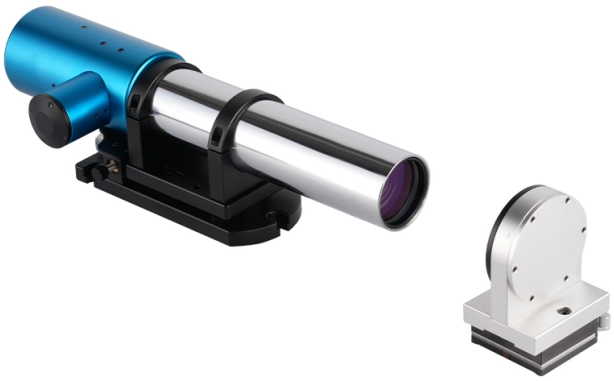
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Product image

Original product title: 中机智能自动测量自准直仪 最大测量距离30m

## Product overview

The MC030-ZJZD Zhongji automatic electronic autocollimator series integrates an automatic measurement module for tasks ranging from straightness inspection to rotary-table positioning accuracy. The source describes a workflow that can be operated by one person, simplifying measurement and supporting consistent automated results in production and research.

## 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 | 2200*1800″ |
| Resolution | 0.1″ (adjustable) |
| Indication accuracy | ±100″ ±0.5″ ±600″ ±1″ |
| 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 |

## 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

• GB/T 1958-2017 GPS — Geometrical tolerance inspection and verification — 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=7E583F4C34EDA084FBEADF506B26ECDD

• GB/T 18779.1-2022 GPS inspection — Conformity decision rules — 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=31282F9BD33688E01A8DFF87DF802900

• 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 12780-1:2011 Straightness — Vocabulary and parameters — Application method reference

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

Official reference: https://www.iso.org/standard/53622.html

• ISO 12781-1:2011 Flatness — Vocabulary and parameters — Application method reference

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

Official reference: https://www.iso.org/standard/53624.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=39

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