Automatic electronic goniometer

Model: MC030-ZJQFCJY-1

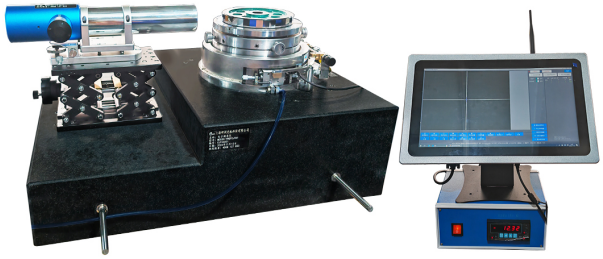
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Product image

Original product title: 自动电子测角仪

Product overview

The goniometer is a precision angular measuring instrument for research institutions, factories, aerospace and metrology. It normally combines an autocollimator, a high-precision rotary table and a control system. Electronic goniometers provide real-time measurement display for convenient reading and recording. Small angular changes are detected by an angle sensor, processed by the control system and sent to the display terminal.

Applications

Optical manufacturing: prism accuracy inspection and process quality control. Metrology: calibration and verification of angular reference artefacts and angle-measuring equipment. Scientific research: experimental angle measurements.

Technical specifications

Parameter	Source data
System measurement accuracy	≤ ±1″
System measurement repeatability	≤ 0.5″
Objective focal length	300mm

Parameter	Source data
Display resolution	0.01″ (adjustable)
Autocollimator central-range error (±100″)	±0.1″
Rotary-table positioning error	≤ ±1″
Rotary-table maximum load	30KG
Rotary-table drive	Motorized
Measurement range	0-360°
Installation configuration	Separate modules or an integrated measurement system on a marble platform

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 9343-2024 Optical angle comparators — Product standard reference

Application relationship: Conditional product-standard candidate, only for the relevant design; model applicability is unconfirmed.

Official reference: https://std.samr.gov.cn/hb/search/stdHBDetailed?id=2A77AF2B5405A92BE06397BE0A0AEC68

• GB/T 1182-2018 GPS — Geometrical tolerance indication — 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=C87A687A21B36E2F2D3A09BDF03DCA01

• GB/T 17851-2022 GPS — Datums and datum systems — 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=973BAB43EA924E8FCBA2982B9DE5BCE4

• 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 1101:2017 GPS — Geometrical tolerancing — Application method reference

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

Official reference: https://www.iso.org/standard/66777.html

• ISO 5459:2024 GPS — Datums and datum systems — Application method reference

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

Official reference: https://www.iso.org/cms/live/live/en/sites/isoorg/contents/data/standard/08/78/87855.html?browse=tc

• 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=91

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