Multi-unit electronic autocollimator system accuracy 0.5″

Model: MC030-MCE200X2

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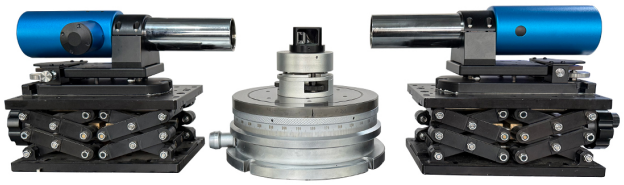

Product image

Original product title: 光电自准直仪：一拖多 精度0.5″

Product overview

The multi-unit electronic autocollimator system is intended for complex angular measurement systems and enables users to compare and analyse measurement data from several autocollimators.

Applications

One software package can control up to 8 or even 16 autocollimators. X and Y axes are measured simultaneously. Each instrument can be controlled individually or together. A high-resolution photoelectric detector is used. Internal and external light-source modes can be switched, and target patterns can be configured as a cross, dot or single line.

Technical specifications

Parameter	Source data
Objective focal length	200mm
Clear aperture	48mm

Parameter	Source data
Optical axis height	78mm
Field of view (X, Y)	3200*2400″
Resolution	0.1″, 0.01″, 0.001″, 0.0001″ adjustable (arc sec. arcseconds)
Indication accuracy	±100″≤ ±0.5″; ±1000″≤ ±1″
Repeatability	≤ 0.2″
Centre wavelength	625nm
Measurement frequency response	≤ 30HZ(Hz TYP.)
Light source type	Semiconductor LED light source
Communication	USB2.0
Third-party communication interface	RS-232
Display method	Software display on a standard PC
Power supply	Integrated power supply
Instrument dimensions (L * W * H)	288*125*115mm (one main unit)
Main unit weight	3.3kg

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=88

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