Dual-axis electronic autocollimator accuracy 1″ maximum measuring distance 10m

Model: Model not stated on the source page · Catalogue no.: YR-010

SHANGHAI MICROCRE OPTICS-MECH TECH CO.,LTD

Telephone: 400-812-7833 | 021-58391850

Address: 1478 Nanfeng Road, Fengcheng Town, Fengxian District, Shanghai, China | Postal code: 201411

Contact email: shanghai@yr17.net

Service email: rockwei@yr17.net



Product image

Original product title: 双轴光电自准直仪 精度1″ 最大测量距离10m

Product overview

This series is intended for cost-effective precision measurement. Applications include inspection and alignment of machine-tool guideways (straightness, parallelism and perpendicularity), surface-plate flatness, optical alignment and precision mechanical manufacturing. The source also describes long-distance series variants for 40, 50 and 80 metres; the specifications of each individual model govern its measuring distance.

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	200mm
Clear aperture	38mm
Maximum measuring distance	10m
Field of view	3200*2400″
Resolution	0.1″ (adjustable)
Indication accuracy	±1000″ ±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)	290*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=10

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