



RK TECHNOLOGIES

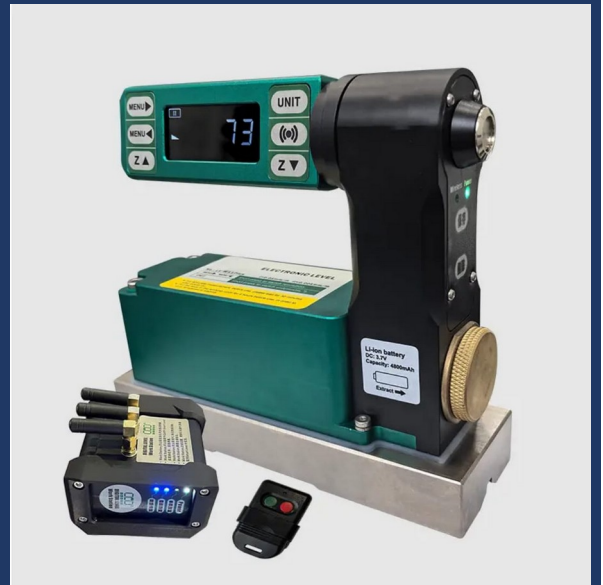
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RK-LV-W11

Micron Electronic Level

* 0.001 mm/m Precision | Bluetooth | 150° Screen
Flatness • Straightness • Parallelism • Levelness



PRODUCT OVERVIEW

The RK-LV-W11 Micron Electronic Level is a high-precision instrument for precise data collection and calculation of: flatness of chassis of intelligent devices and precision marble platforms, parallelism of marble bases of semiconductor devices, and straightness of linear guide rail modules. With a 0.001 mm/m resolution, 150° rotating screen, Bluetooth connectivity, and ergonomic wooden grip design, it is ideal for both field and laboratory precision measurement.



LV-WL9 variant (Red edition)



PRODUCT FEATURES

- Precision: 0.001 mm/m
- Flatness, straightness, and levelness measurement software available on both computer and mobile
- Data is read in real-time via Bluetooth control to computer / mobile software for calculation
- Screen can be rotated by 150°, convenient for observation
- Can be zeroed at any flat and stable position (relative zero position and absolute zero position)
- Display unit can be switched between slope (mm/m) and seconds (")
- Wooden grip design — more convenient to pick up and hold

APPLICATIONS

- ✓ Flatness of precision marble platforms & chassis
- ✓ Parallelism of semiconductor device marble bases
- ✓ Straightness of linear guide rail modules
- ✓ Machine tool guide rail calibration
- ✓ Perpendicularity detection



Shockproof Aluminum Carry Case (Included)

TECHNICAL PARAMETERS

At ambient conditions | ISO 9001 Certified | RoHS Compliant

Parameter	Specification
Model and Name	LV-W11 Micron Electronic Level
External Dimensions	150 × 47 × 131 mm
Measurement Accuracy — I Gear	0.01 mm/m
Measurement Accuracy — II Gear	0.001 mm/m
Measurement Range	0 ~ ±500 (count)
Display Range — I Gear	0 ~ ±2500 (count)
Display Range — II Gear	0 ~ ±2500 (count)
Indication Error	$\pm(1 + A \times 2\%) \Delta$ [A = absolute value of nominal value at verification position]
Consistency of Standard Pos.	$\leq \pm 1$ count
Repeatability	$\leq \pm 1$ count
Power Supply	1 × 21700 Lithium Battery — 4800 mAh / 3.7V
Lithium Battery Charger	1 piece (included)
Screen Rotation	150° adjustable for convenient viewing
Connectivity	Bluetooth — real-time data transfer to PC & mobile
Software	Flatness, Straightness of guide rails, Parallelism
Net Weight	3.8 kg

MEASUREMENT SOFTWARE

The included PC and mobile software, when used in conjunction with the level, can complete a large number of measurement tasks. Main applications: straightness (straight line), parallelism (machine tool guide rails), flatness, and perpendicularity detection. Supports offline use, simple and intuitive interface, Bluetooth connection, real-time data reading, easy to operate.

1. PC Software — Flatness Measurement

- ◆ Chinese and English interfaces
- ◆ 3 data collection methods: keyboard input, wireless transmission, and data import
- ◆ 3 evaluation methods: diagonal method, least squares method, and minimum circumscribed area method
- ◆ Able to calculate the coincidence error and uncertainty
- ◆ Print reports in 4 formats: Word, Excel, PDF, TXT

2. PC Software — Straightness Measurement

Parallelism measurement of single guide rail and double guide rails, and yaw measurement.

Measurement Capabilities:

- ◆ Single guide rail straightness
- ◆ Double guide rail parallelism
- ◆ Yaw measurement
- ◆ Real-time data input via Bluetooth or keyboard
- ◆ Evaluate using two-endpoint or least squares



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- ◆ Capable of modifying user information and setting detection parameters
- ◆ Able to display data results and virtual wireframe diagrams

method

- ◆ Display results as 2D profile graphs

MOBILE APP (Android)

The mobile app works alongside the level for Flatness and Straightness measurement — convenient for on-site field use without a laptop.

Flatness & Straightness Measurement

- ◆ Modify workpiece parameters
- ◆ 2 data collection methods: keyboard input and Bluetooth wireless reading
- ◆ 2 evaluation methods: method of connecting two endpoints & least squares method
- ◆ Calculates coincidence error and uncertainty
- ◆ Displays data results and virtual wireframe diagrams
- ◆ Measured data can be shared with PC-side software in TXT file format

Additional App Capabilities

- ◆ Supports Bluetooth wireless connection to the level
- ◆ Offline use supported — no internet required
- ◆ Simple and intuitive interface
- ◆ Real-time data reading from the level
- ◆ Android system compatible
- ◆ Data shareable with PC software via TXT format

Signal Workstation included

Multi-channel wireless receiver for collecting data from multiple levels simultaneously. Enables multi-point measurement without manual repositioning.

PRODUCT CONFIGURATION — STANDARD PACKING LIST

No.	Name	Model	Unit	Qty
1	Micron Electronic Level	LV-W11	Set	1
2	PC Software	PC	Set	1
3	Signal Workstation		Set	1
4	Lithium Battery (21700) + Charger	21700	Section	4 + 1
5	Random Documents / Product Specification		Set	1
6	Mobile APP	Android	Set	1
7	Shockproof Aluminum Case		Piece	1

Contact RK Technologies for Pricing, Demo & Calibration Services

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