



## RK TECHNOLOGIES

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# RK-LV-W11JD

Digital Electronic Level

\* 0.001 mm/m | Large LCD Screen | Bluetooth  
Flatness • Straightness • Parallelism • Perpendicularity



## PRODUCT OVERVIEW

The RK-LV-W11JD Digital Electronic Level is a high-precision instrument used for precise data collection and calculation of: flatness of the chassis of intelligent devices and precision marble platforms, parallelism of marble bases of semiconductor devices, and straightness of linear guide rail modules. Featuring a high-definition large LCD screen with black background and white text, it delivers clear real-time readings and supports mobile/PC software for auxiliary calculations.



Complete Kit — Shockproof Aluminum Case with all accessories

**DIMENSIONS**  
165 × 47 × 80 mm  
Net Weight: 1.2 kg

## PRODUCT FEATURES

- Precision: 0.001 mm/m
- Mobile-end calculation software for straightness detection, parallelism detection and perpendicularity detection
- High-definition large LCD screen — black background with white text design
- Zero setting at any position within measurement range (relative and absolute measurement)
- Display unit switchable: slope (mm/m) ↔ angle (°)
- Calibration or verification certificates from Shanghai or Suzhou Metrology Institutes can be attached

## 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

## TECHNICAL PARAMETERS



At ambient conditions | Model: LV-W11JD Digital Electronic Level

Parameter	Specification
Model and Name	LV-W11JD Digital Electronic Level
External Dimensions	165 × 47 × 80 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.	≤ 1 count
Repeatability	≤ 1 count
Power Supply	4 × 21700 Lithium Battery / 3.7V
Display	High-definition large LCD — black background, white text
Software	Flatness, Straightness of guide rails, Parallelism
Net Weight	1.2 kg
Connectivity	Bluetooth — real-time data to PC & mobile software
Certification	Calibration/Verification certificate from Shanghai or Suzhou Metrology Institute (available)

## MEASUREMENT SOFTWARE

The software, when used in conjunction with the level, completes a wide range 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.

### 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
- ◆ Calculates coincidence error and uncertainty
- ◆ Print reports in 4 formats: Word, Excel, PDF, TXT
- ◆ Modify user information and set detection parameters
- ◆ Display data results and virtual wireframe diagrams

### 2. PC Software — Straightness Measurement

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

- ◆ Single guide rail straightness
- ◆ Double guide rail parallelism
- ◆ Yaw measurement
- ◆ Real-time Bluetooth data input

### 3. Mobile App (Android)

- ◆ Modify workpiece parameters
- ◆ 2 data collection: keyboard input & Bluetooth wireless
- ◆ 2 evaluation methods: two-endpoint & least squares
- ◆ Calculates coincidence error and uncertainty
- ◆ Displays results and virtual wireframe diagrams



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◆ Share data with PC software in TXT format

### PRODUCT CONFIGURATION — STANDARD PACKING LIST

No.	Name	Model	Unit	Qty	Remarks
1	Digital Electronic Level	LV-W11	Set	1	
2	PC Software	PC	Set	1	
3	Lithium Battery	21700	Section	2	
	Lithium Battery Charger		Piece	1	
4	Random Documents / Product Manual		Set	1	
5	Mobile APP		Set	1	Android
6	Shockproof Aluminum Case		Piece	1	

#### Contact RK Technologies for Pricing, Demo & Calibration Services

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