

JW MACHINERY

JW Wire Harness Tester Catalog

Wire Harness Testing & Quality Control Solutions for Cable Assembly

Professional wire harness testing equipment — sequence & continuity testers, vision-based color detectors, terminal cross-section analyzers and high-voltage power cord testers engineered for precision, reliability and global safety compliance.

XIAMEN JINGWEI TECHNOLOGY CO., LTD.

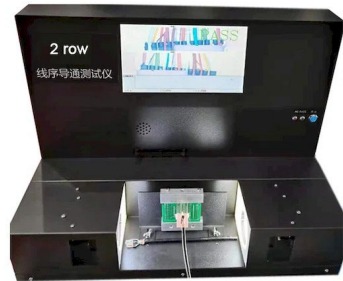


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Product Overview

Professional wire harness testers, continuity checkers, color sequence detectors and terminal cross-section analyzers for cable assembly quality assurance



WPM-8AB

Double Row Wire Harness Sequence & Continuity Tester



WPM-DC20

Double Row Wire Color Sequence Detector with 1280*1024 Camera



WPM-SE4

Fully Automatic Terminal Cross-Section Analyzer
30-312X Magnification



WPM-SES

Portable Crimp Cross-Section Analyzer for Wire
Harness Quality Control



WPM-8681

256-Point Wire Harness & USB Cable Tester with
Auto Scan



WPM-8683

Automatic Power Cord Harness Tester with 5KV HV
Output

Double Row Wire Harness Sequence & Continuity Tester



Description

The WPM-8AB is an advanced double-row wire harness sequence and continuity tester designed for automotive and consumer electronics cable assembly. It features 64PIN continuity/open circuit/instantaneous open testing with intelligent color sequence detection for wire misordering, misplacement and wrong PIN identification. The intuitive HMI supports automatic same-color wire recognition, front/back side placement, editable test files, and automatic PASS/FAIL judgment with NG lock to prevent defective products from passing through. Test results are delivered via screen display, indicator lights and voice broadcast. Supports Type-C, HDMI, USB, wire-to-PCB and custom double-row connectors, with optional insulation testing and dot matrix printing.

Parameter	Value
Model Number	WPM-8AB
Test Range Width	1-50mm
Voltage	200-240VAC 50/60Hz
Weight	20kg
Packing Size	560×440×450mm
Working Environment	Temp 0-40°C, RH <80%
Color Test	Wire sequence color misordering, misplacement, wrong PIN
Continuity Test	64PIN continuity/open circuit/instantaneous open
Test Result	Voice broadcast, NG lock
Applicable Products	Automotive harness, Type-C, HDMI, USB, wire-to-PCB

Key Features

64PIN dual-row continuity test

Voice broadcast & NG lock

Color sequence + conduction 2-in-1

MODEL: WPM-8AB

Double Row Wire Color Sequence Detector with 1280*1024 Camera



Description

The WPM-DC20 is a high-precision double-row wire color sequence detector powered by a 1280×1024 pixel 60FPS CMOS camera with 75mm F1.4 progressive lens. It integrates both color sequence detection and conduction testing in one unit, specifically optimized for double-row connector harnesses. The machine delivers detection results within 0.25 seconds for high-throughput production lines. Its super anti-interference capability ensures stable results even in electrically noisy factory environments, and the intelligent algorithm is immune to text markings, color circles and line placement on wire surfaces. Features embedded motherboard with >50,000 hours MTBF, low power consumption under 35W, standard mouse with built-in screen keyboard and external USB interface.

Parameter	Value
Model Number	WPM-DC20
Camera Pixels	1280×1024, 60FPS CMOS
Lens Parameters	75mm F1.4 progressive lens
Field of View	1-58mm
Detection Time	Within 0.25s
Power Consumption	≤35W
Motherboard	Embedded
MTBF	>50,000 hours
Input Devices	Standard mouse, built-in screen keyboard, USB
Applicable Connectors	Single-row and double-row

Key Features

- 1280×1024 HD camera 60FPS
- 0.25s ultra-fast detection
- Super anti-interference design

Fully Automatic Terminal Cross-Section Analyzer 30-312X Magnification



Description

The WPM-SE4 is a fully automatic terminal cross-section analyzer integrating precision cutting, grinding, corrosion cleaning, optical sampling and image acquisition in one automated system. It features patented one-step cutting and grinding technology for perfect terminal flatness, completing entire cross-section analysis in just 3 minutes per terminal. Equipped with Japan-imported segment-less zoom optical system offering 30-312X magnification, a 5-megapixel Japanese industrial HD video system, German imported Dia.110×0.5mm blade, Japanese Panasonic servo motors on X&Y axes and Mitsubishi PLC controller. Handles wire sizes from 0.01 to 50mm² with 5-second corrosion cleaning, all-white adjustable LED lighting and professional Japanese terminal section analysis software with encryption lock. Compact W500×D350×H350mm footprint ideal for laboratory and production floor QC.

Parameter	Value
Model Number	WPM-SE4
Total Video Magnification	30~312X
Applicable Wire Range	0.01~50mm ²
Power Supply	100~240VAC, 50/60Hz
Imaging System	Japanese industrial HD 5MP video system
Blade Specifications	Dia.110×0.5mm (Germany imported)
Abrasive Sandpaper	1200#
Standard Fixture	0.01~50mm ²
Reference Ruler	0.01/10mm high precision
Lighting Source	All white adjustable LED
Dimensions	W500×D350×H350mm
Analysis Time	3 minutes per terminal

Key Features

Fully automatic cut-grind-image in 3 min
 30-312X Japan zoom optics
 0.01-50mm² wire range

MODEL: WPM-SE4

Portable Crimp Cross-Section Analyzer for Wire Harness Quality Control



Description

The WPM-SES is a portable crimp cross-section analyzer designed for on-site wire harness quality control. It features integrated cutting and grinding module powered by German imported motors running at 2800rpm with 2mm/sec cut speed, completing terminal cross-section preparation and analysis within 5 minutes. Equipped with a high-performance microscope providing upright three-dimensional spatial imaging with strong stereoscopic sense, 10-level magnification from 0.75X to 5.0X, and observation range of 1.2-8.2mm. The Japanese Mitsubishi PLC controller ensures stable operation, while the Japanese Panasonic servo motor drives precise X-axis positioning. Features eclipse partial electrolysis (up to 6mm², 5-30sec), Z-axis fine tuning (0-5mm), ultra-bright dimmable white LED, XYZ mobile platform (± 6 mm), Section-ms analysis software with compression ratio measurement tools, and 3-megapixel Japanese HD camera with USB 2.0. Automotive/home appliance/IT industry certified, compact 490×340×340mm at 30kg for portable QC use.

MODEL: WPM-SES

Parameter	Value
Model Number	WPM-SES
Control System	Japanese Mitsubishi PLC controller
Module Cut Range	0.13~6.00mm ²
Rotate Speed	2800rpm (German imported motor)
Cut Speed	2mm/sec
Cut Wheel	ID 21.7mm, OD 105mm, 0.5mm thick (Germany)
Z-axis Tuning Range	0.00~5.00mm
X-axis Shift	Japanese Panasonic servo motor
Electrolysis Area	Up to 6mm ²
Electrolysis Time	5~30sec
Magnification	0.75X~5.0X (10-level)
Observation Range	1.2~8.2mm
Light Source	Ultra-bright white LED, dimmable
Power	220VAC, 50Hz, 300W
Weight/Dimensions	30kg / 490×340×340mm

Key Features

Portable ergonomic design
0.13-6mm² cut range
3D microscope imaging

256-Point Wire Harness & USB Cable Tester with Auto Scan



Description

The WPM-8681 is a professional 256-point wire harness and USB cable tester with comprehensive testing capabilities for cable assembly quality assurance. It supports up to 256 test points for complex harnesses, featuring Auto Scan and Auto Pin Search functions that automate the testing process and eliminate manual pin mapping. Advanced intermittent fault detection identifies intermittent conductance issues and intermittent open/short circuits that standard testers often miss, catching loose connections and hairline fractures. Supports single-end testing for applications where only one cable end is accessible. Features a large 320×240 LCD display, full programming sequence test for custom test sequences, versatile I/O ports for integration with automated test fixtures, and statistics/print functions for data management and traceability. Tests automotive cables, audio cables, power cables, network/ethernet cables, telephone cables, all USB types, HDMI/VGA/DisplayPort video cables and custom wire harnesses.

Parameter	Value
Model Number	WPM-8681
Max Test Points	256 points
Display	320×240 LCD
Auto Features	Auto Scan, Auto Pin Search
Testing Modes	Intermittent conductance, intermittent open/short
Testing Type	Single-end testing supported
Programming	Full programming sequence test
Data Management	Statistics and print function
I/O Ports	Versatile I/O ports for expansion
Applicable Cables	Automotive, USB, audio, network, video, power cables

Key Features

- 256 test points capacity
- Auto scan & pin search
- Intermittent fault detection

MODEL: WPM-8681

Automatic Power Cord Harness Tester with 5KV HV Output

Power cable tester



Description

The WPM-8683 is a comprehensive automatic power cord harness tester with 5KV high-voltage output, designed to meet international safety standards including UL, VDE, CSA, SAA, T-MARK, KS, IRAM and CCC for global market compliance. It handles single-ended, double-ended and three-ended power cords, performing automated continuity, insulation resistance, leakage current, line-to-line hipot (internal HV up to 5KV), leaking copper (external HV up to 5KV) and relative length tests in one continuous sequence. Polarity tests detect breakover, short circuit, open circuit and dislocation defects. Features adjustable leakage current (0.5-10mA), insulation resistance (2-200MΩ), timing (0.1-99.9s) with 0.3s minimum measurement time. Includes automatic printing/ejection for OK products, automatic cutting for defective products with voice and light alarms, counting function, RS232 interface for PC communication and software upgrades, and comprehensive safety protection (electric leakage, short circuit, overheating). Heavy-duty 80kg construction at 730×530×500mm.

Parameter	Value
Model Number	WPM-8683
Applicable Standards	UL, VDE, CSA, SAA, T-MARK, KS, IRAM, CCC
Power Cord Types	Single-end, double-end, three-end cords
Polarity Tests	Breakover, short, open circuit, dislocation
Leakage Current	0.5/1.0/2.0/3.0/5.0/10mA
HV Output (Internal/External)	0-5KV (500VA) adjustable
Insulation Resistance	2/7/20/50/100/200 MΩ
Timing Range	0.1-99.9s
Min Measurement Time	0.3s
Operating Voltage	220VAC 12A 50/60Hz
Communication	RS232 for PC connection
Safety Features	Leakage, short circuit, overheating protection
Dimensions/Weight	730×530×500mm / 80kg
Auto Functions	Auto print/eject, counting, defect cutting, alarms

Key Features

- 0-5KV HV hipot testing
- UL/VDE/CCC global compliance
- Auto defect cut & alarms

MODEL: WPM-8683

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