



SMT
S O L I D

JUKI
JUKI AMERICA, INC.
ELECTRONIC ASSEMBLY SYSTEMS

RV-1

INSPECTION

We offer complete SMT solutions with cutting-edge technology and specialized support.



MX 81-282-8092
US 10-791-8343





RV-1

PWB VISUAL INSPECTION MACHINE (AOI/SPI)

Capable high-speed and high-precision inspection!

JUKI's RV-1 is the ultimate solution for ensuring high-speed and high-precision inspection on production lines. Leveraging its state-of-the-art "Clear Vision Capturing System," this cutting-edge automated optical inspection (AOI) machine delivers enhanced clarity using large-sized ring and coaxial lights, capturing super-clear images at unparalleled speeds. The RV-1 also simplifies programming with its intuitive "Template Mode," which reduces setup time and enables operators to achieve quick, accurate results with minimal effort.

Boasting an inspection speed of 0.14 seconds per frame, the RV-1 combines a high frame-rate 4-megapixel CMOS camera, twin linear motors, and high-speed image processing to ensure operational efficiency without compromising on accuracy. Features such as the CCC (Central Confirmation Control) option, SPC (Statistical Process Control), and support for 3D inspection make the RV-1 the perfect choice for manufacturers striving to enhance quality and streamline processes.

MAXIMIZE FLEXIBILITY, INSPECT ANY SIZE.



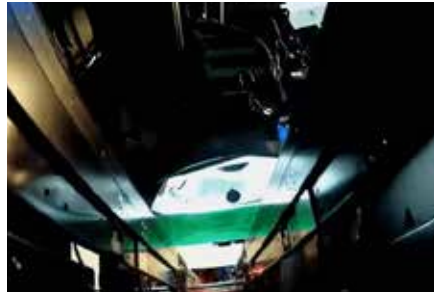
Clear Vision Capturing System

High-speed, ultra-precise imaging powered by a 4-megapixel CMOS camera and advanced lighting.



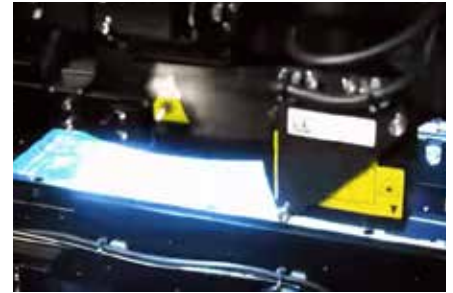
High-Speed Image Processing

Inspect faster with speeds of 0.14 sec./frame, increasing throughput.



Statistical Process Control (SPC)

Compile and analyze inspection data to enhance SMT quality.



Comprehensive Inspection Coverage

Detect omissions, polarity issues, solder defects, bridging, and more with resolutions down to 10µm.

SPECIFICATION

ITEM	RV-1
PWB size	50mm x 50mm - 510mm x 300mm (Dual lane) / 50mm x 50mm - 510mm x 590mm (Single lane)
Components	0402*, 0603 (metric), cylindrical chip, tantalum capacitor, transistor, SOP/QFP, etc
Inspection speed	0.14 sec./frame (typically 5 square inches/sec.)
Resolution	15µm (Standard resolution), 10µm (High resolution)
Inspection items	Omission, offset, polarity, reversed, no-solder, bridge, amount of solder, foreign material, etc.
Power supply	AC 3-ph 200-230V 2.0kVA / 0.49MPa 10NI/min
Dimensions	W940mm x D1,975mm x H1,530mm
Weight	1,305kg

Industrial solutions, innovation and precision.

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