Configuration/Specifications

Hardware Configuration

Model		VT-RNSⅡ ptH	
Type		M size/L size	
Image signal input unit	Camera	3-CCD color camera	
	Illumination	Ring-shaped LEDs (R, G, B)	
	Image resolution	10, 15, 20 µm	
Main unit	PCB carrier width adjustment	Manual	
	PCB fixing method	Topside	
Power supply		AC100 V to AC230 V ±10% (single phase)	AC100V to AC240V ±10% (single phase)
Ambient operating temperature		10 to 35°C	
Ambient operating humidity		35 to 80% RH (with no condensation)	
Weight		110 kg (242.5 lbs) max.	180 kg (396.8 lbs) max.
Dimensions		688(W)×905(D)×720(H) mm	1,070(W)×1,458(D)×490(H) mm

Functional Specifications

Model		VT-RNSⅡ ptH		
Type		M size/L size		
Inspectable PCBs	Type	Post-printing	Post-placement (before reflow)	Post-reflow
	Dimensions	50×50 to 255×333 mm / 50×50 to 550×650 mm		
	Thickness	0.3 to 2.5 mm / 0.3 to 3.0 mm		
	Weight	1.0 kg (2.2 lbs) max. / 3.0 kg (6.6 lbs) max.		
Clearance		Above PCB: 20 mm (0.79 in) (standard) , 40 mm (1.57 in) (optional) Below PCB: 75 mm (2.95 in)		
Inspection items		Presence of solder, insufficient/excessive solder, grazing, solder shifting, bridging, spreading, leaking	Component shifting, polarity error, missing components, wrong components, solder balls, skewing, bridging, foreign objects	Presence of solder, wrong components, missing components, bridging, component shifting, fillets, wettability, lifting, lead bending, adhesive, solder balls
Number of inspection points		40,000 lands/PCB max.	10,000 components/PCB max.	
Data storage		Computer hard disk		
Component-specific inspection data library		Component types, groups, variations		
Inspection result output		PCB name, PCB ID, component name, type of fault, etc.		
Communications		Ethernet, RS-232C		

● **This product may cause interference if used in residential areas.**

OMRON Corporation
Industrial Automation Company

Sensing Devices Division H.Q.
Vision Systems Division
Sales Department
Shinagawa Front Bldg. Conference 7F
2-3-13 Kounan Minato-ku Tokyo
108-0075 JAPAN
TEL +81-3-6718-3550 FAX:+81-3-6718-3553

OMRON INDUSTRIAL AUTOMATION (CHINA) CO., LTD.
Room A902, Innocation Science& Technology Plaza I, Tian an Cyber Park, Futian District, Shenzhen, Guangdong 518040, China
TEL:+86-755-8359-9028 FAX:+86-755-8359-9628

OMRON EUROPE B.V.
Wegalaan 67-69, 2132 JD, Hoofddorp
TEL:+31(0)23 568 13 00 FAX:+31(0)23 568 13 88
http://inspection.omron.eu/

OMRON ELECTRONICS LLC
One Commerce Drive Schaumburg Illinois 60173, U.S.A.
TEL:+1-847-843-7900 FAX:+1-847-843-7787
Email: aoi.request@omron.com
http://www.omron247.com

OMRON ELECTRONICS KOREA CO., LTD.
21F, Kyobo Tower B Wing,1303-22, Seocho-Dong, Seocho-Gu, Seoul, Korea 137-920
TEL:+82-2-3483-7789

OMRON ASIA PACIFIC PTE LTD
438A Alexandra Road #05-05/08 (Lobby 2)
Alexandra Technopark Singapore 119967
TEL:+65-6547 6789 FAX:+65-6547 6769
http://www.omron-ap.com/aoi/

Authorized Distributor:

Cat. No. Q318-E1-01B

Note: Specifications subject to change without notice

0811-1.5M(0710)(TA)

NEW

Desktop Portable PCB Inspection System
VT-RNSⅡ ptH

OMRON

The Renowned Expertise of Omron Packed into a Desktop Unit

VT-RNSⅡ ptH

Portable model

Easy to program and fully compatible from inspection through to repair

Powerful yet simple to use.
Desktop AOI keeps installation costs low.

The VT-RNS II ptH portable desktop PCB inspection system gives you the flexibility to meet the demands presented by high-mix / low-volume production. This second-generation model offers significant improvements in basic performance with reduced installation costs and easy-to-use program generation.

Simple Program Generation

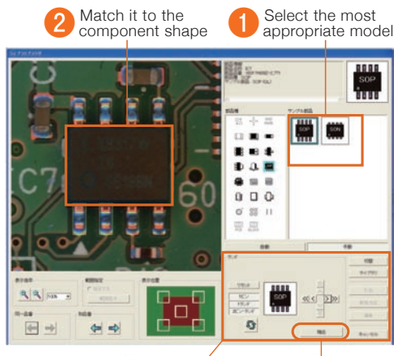
So simple that anyone can create inspection programs

The easy-to-use Ez-Image Teaching (Ez-IT) inspection program generation system is equipped as a standard feature, enabling anyone to quickly and easily create inspection programs tailored to the PCB.

Automatic inspection program generation software

Ez-Image Teaching (Ez IT)

Makes it easy to create inspection programs in just four simple steps.



Program sharing

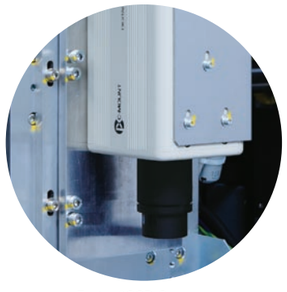
Inspection programs created using the RNSII ptH can also be used on inline-type VT-RNSII systems.

* Note that this is not supported for some PCBs. Contact your Omron sales representative for details.

35% Faster

Now faster than ever

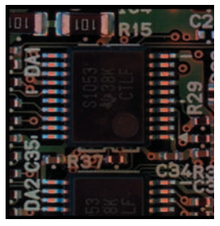
Omron shortens post-reflow inspection tact time by up to 35% over previous models with improvements including increased image processing speed, a larger field of view, a more powerful CPU and faster sequencing.



Faster 3CCD Camera

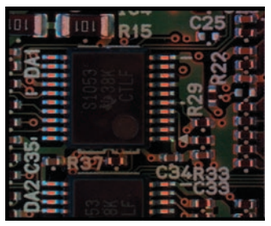
Larger field of view for faster processing

VT-RNS



Larger field of view

VT-RNSII

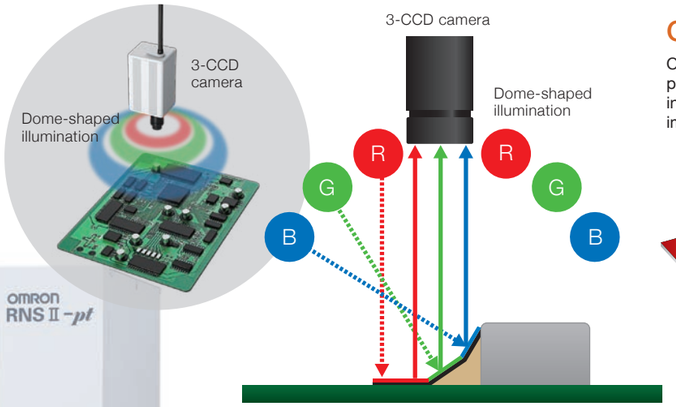


* Only for M-size post-reflow inspection systems. Effectiveness varies depending on the PCB inspected.
* Inspection speeds for post-printing and post-placement models are equivalent to conventional models.

Omron High Precision

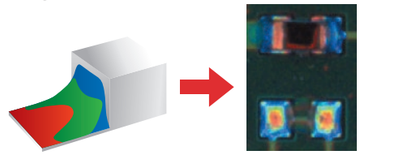
Omron — The Pioneer in High-precision Inspection Systems

Omron pioneered the development of PCB inspection systems utilizing 3-CCD cameras and Color Highlight illumination technology. Our wide-ranging expertise in areas such as image processing and setting of judgment standards gives you a built-in advantage for high-precision inspection.



Color Highlight system

Omron's advanced Color Highlight system provides a method of obtaining accurate information on solder joint angles in the form of image data.



Accurate solder shape data that is unaffected by reflection brightness.

Global Support

World Class Engineering Support

Omron has built a global support organization for our customers with sales and service offices in some 70 locations covering the major manufacturing centers around the world. Regional coordination ensures consistent, high quality support where ever you choose to set up production. Services are tailored to your needs and include technical support and training in system setup, operations and maintenance.

Software for process improvement

Omron has the expertise to improve your production efficiency

Process Improvement Support System

Q-upNavi Option

Q-upNAvi provides total support for process improvement, root cause defect analysis and countermeasure implementation.

By helping to visualize process conditions, Q-upNavi enables you to implement corrective procedures that will prevent future defects from occurring.

Q-upNavi process comparison and analysis