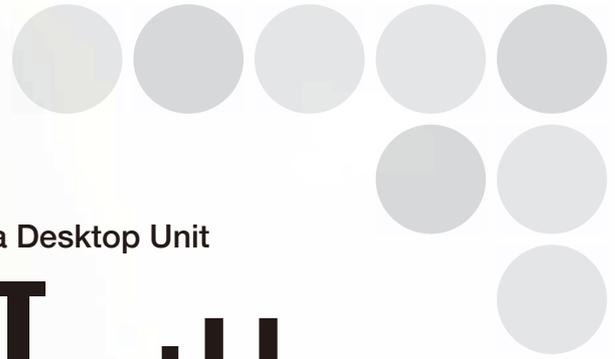


NEW

Desktop Portable PCB Inspection System
VT-RNSII ptH

OMRON



The Renowned Expertise of Omron Packed into a Desktop Unit

VT-RNSII ptH

Portable model



realizing

Easy to program and fully compatible from

Powerful yet simple to use.

Desktop AOI keeps installation costs low.

The VT-RNS II pH 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.

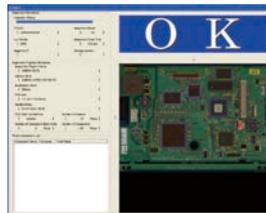
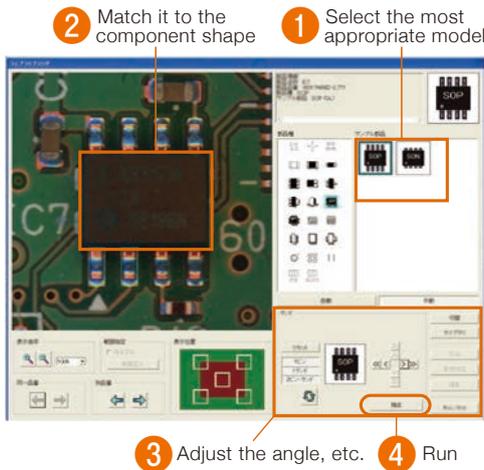
Simple Program Generation

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 pH 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

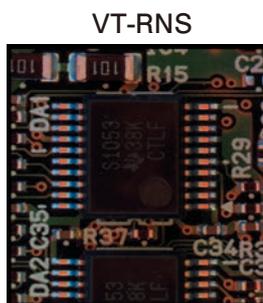
Now faster than ever

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.

Larger field of view for faster processing

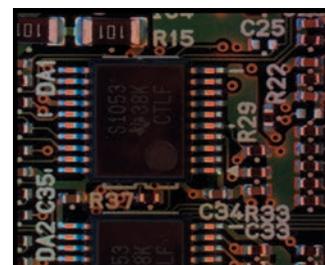


Faster 3CCD Camera



VT-RNS

Larger field of view



VT-RNSII

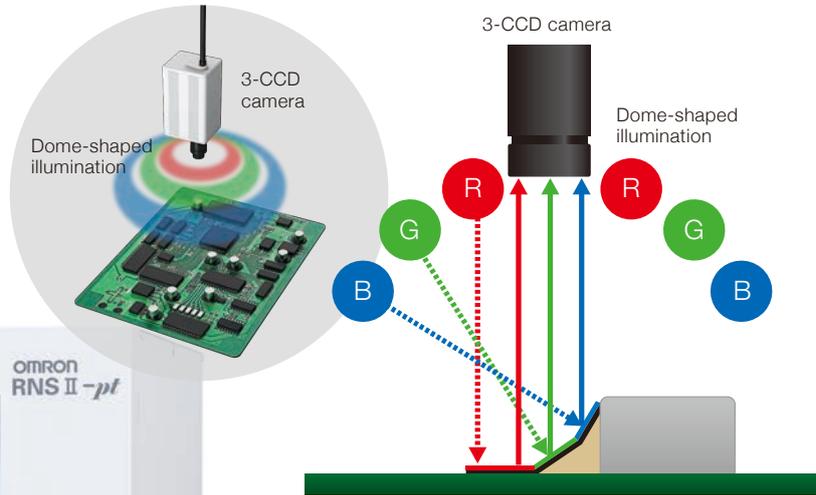
* Only for M-size post-reflow inspection systems. Effectiveness varies depending on the PCB inspected.
* Inspection speeds for post-printing and post-placement models are equivalent to conventional models.

inspection through to repair

Omron — The Pioneer in High-precision Inspection Systems

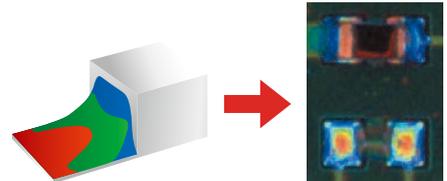
Omron pioneered the development of PCB inspection systems utilizing 3-CCD cameras and Color Highlight illumination technology. Our wide-ranging expertise in areas such as image processing and setting of judgment standards gives you a built-in advantage for high-precision inspection.

Omron
High
Precision



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.

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.

Global
Support



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

Q-upNavi process comparison and analysis

Configuration/Specifications

Hardware Configuration

Model		VT-RNSII pH	
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 μ m	
Main unit	PCB carrier width adjustment	Manual	
	PCB fixing method	Topside	
Power supply		AC100 V to AC230 V \pm 10% (single phase)	AC100V to AC240V \pm 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) \times 905(D) \times 720(H) mm	1,070(W) \times 1,458(D) \times 490(H) mm

Functional Specifications

Model		VT-RNSII pH		
Type		M size/L size		
Inspectable PCBs	Type	Post-printing	Post-placement (before reflow)	Post-reflow
	Dimensions	50 \times 50 to 255 \times 333 mm / 50 \times 50 to 550 \times 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 document provides information mainly for selecting suitable models. Please read the Instruction Sheet carefully for information that the user must understand and accept before purchase, including information on warranty, limitations of liability, and precautions.
- This product may cause interference if used in residential areas.

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