

Omron VT-RNS2-L3 Automated Optical Inspection Unit

Model: VT-RNS2

Sub Model: L

S/N: 1726Y10-6007

PCB Flowing: L->R

Front Rail Fixed

Application Version: 7.20C (RNS)

Ladder Version: 7.100B (RNS)

Image Resolution: 15um

AC 120V, 2 Phase, 50/60 Hz, 1.5 kVA

Max Current: 15A

Hardware Configuration:

Image Signal Input Unit:

- Camera: 3-CCD Camera
- Illumination: Ring-shaped LEDs (R, G, B)
- PC: RICOH FD5102

Main Unit:

- Feed Method: Belt
- Line Height: 900 plus minus 15mm
- PCB Carrier Width Adjustment: Automatic

PCB Fixing method: Outer frame

PCB Type:

- Post-printing
- Presence of solder
- insufficient/excessive solder
- solder shifting
- grazing
- bridging
- spreading
- leaking

Post-placement (before reflow):

- Presence of solder
- component shifting
- polarity error

- missing components
- wrong components
- solder balls
- skewing
- bridging
- foreign objects

Post-reflow

- Presence of solder
- wrong components
- missing components
- bridging
- lifting
- component shifting
- fillets
- wettability
- lead bending
- adhesive
- solder balls

Number of inspection points

- 40,000 lands/PCB max.
- 10,000 components/PCB max.

Data storage

- Computer hard disk

Inspection result output

- PCB name, PCB ID, component name, type of fault, etc.

Communications

- Ethernet, RS-232C

PCB feed mode

- Through, turnback

Inspectable PCBs:

- Dimensions: 80 (W) × 50 (D) to 510 (W) × 460 (D) mm
- Thickness: 0.3 to 3.0mm
- Clearance: Above PCB: 20 mm (0.79 in) (standard)
- Below PCB: 50 mm (1.97 in)

- Machine Weight: App 650 Kgs
- Dimensions: 920 (W) × 1,365 (D) × 1,600 (H) mm (Excluding Patlite signal tower)