Electronics Assembly Solutions

Vantage™ S22
Post-Reflow AOI System

Vantage S22 is an economical AOI solution that delivers excellent results to meet your SMT inspection requirements. With the system’s easy Wiz & Go™ operation and advanced 3-D defect detection, you can improve your product quality and boost your productivity.

Cost-Effective Inspection Performance

Vantage gives you:
- Cost-effective performance at full line speeds
- Easy Wiz & Go™ operation
- Comprehensive defect coverage with advanced 3-D detection technology
- Flexible adaptation to product changeovers, regardless of mix or batch sizes
- Straightforward integration into any SMT environment
Vantage S22

Specifications

Easy Wiz & Go™ Operation
With Vantage’s ‘point-and-click’ workflow wizard, using the system is easy and training time is quick. You no longer have to rely on a single operator for inspection consistency or waste valuable hours creating inspection programs and setups. Just Wiz & Go! The wizard guides you through each stage of recipe creation and then you are ready for board inspection. Adjusting your inspection program, verifying new settings and tracking your progress is effortless and can be done at any time with Vantage’s easy-to-follow graphic interface and tools.

Comprehensive Detection Coverage
Based on the same advanced 3-D detection technology employed in Orbotech’s highest performance AOI systems, Vantage ensures superior accuracy with minimized false calls. Specialized image acquisition and processing techniques provide full coverage and analysis of all visible component and solder joint defects including lifted lead, fine-pitch and j-Legs.

Inspection Features

Hardware
- Test Platform: X, Y, Z table with high-resolution glass scale encoders
- Automatic board warp compensation
- Automatic conveyor width adjustment
- Test Fixture: Four high-resolution optical sensors
- Power Supply: 208 VAC
- Lighting: LED, direct and indirect light

Vision System
- Type: Sphere-to-sphere, Multi-line, Multi-line with real-time beam/brightness
- Coverage: Full board coverage
- Resolution: 1/4 pixel
- Illumination: Axial, direct and diffuse white lighting

Software
- Operating System: Windows XP Professional
- AOI Software with Standard Program Creation Wizard
- AOI Production Mode Software: Standard
- Component Library: JEDEC compliant, lead-free process proven
- CAD Input Software: Standard
- Verification Station Software: Optional
- Other Options: Barcode reader, through camera barcode reader, 1-D & 2-D barcode, OCR, test equipment, offline programming stations

Clearance
- Under camera: 90 mm (3.54 in.)
- Under board: 90 mm (3.54 in.)

Dimensions
- W 1110 x D 1290 x H 1397 mm (W 43.7 x D 50.8 x H 55.0 in.)

Weight
- 450 Kg (990 lbs)

Communication
- Network: Twisted pair Ethernet supporting TCP/IP
- Line: SMEMA or extended SMEMA

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