



YSi-V **Specifications** PCB size range L 610 x W 560mm (max) to L 50 x W 50mm (min) (Applicable for L 750mm longer PCB (Option)) Visible spectrum (red/green/blue) / infrared: 12µm / 7µm (Selection) Resolution Target items Components status after mounting, components status and solder status after hardening 3-Phase AC 200/208/220/230 V +/-10% 50/60 Hz Power supply Air supply source 0.45 MPa or more in clean dry state L 1,252 mm x W 1,497 mm x H 1,550 mm (not including projections) External dimension Approx. 1,300 kg

External dimensions

1252

384

1550

Productivity-boosting dual system

Capable of parallel dual-lane board conveying to speed up small & mid-sized board inspections and can also convey large longitudinal boards to a maximum of 750 mm in length (option).

(Please consult us for board sizes exceeding 750 mm in length.)



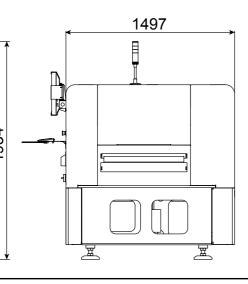




Single lane

Dual lane

Dual lane (on dual lane operation) (on single lane operation)



Specifications and appearance are subject to change without prior notice.

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YAMAHA TRUSTED TECHNOLOGY

Yamaha Motor Intelligent Machinery (IM) is a subsidiary of Yamaha Motor Company.



High-end Hybrid Optical Inspection System (AOI)

Unique features ensure accurate inspection results and high efficiency, for optimum productivity.



2D

High-speed, high-resolution 2-dimensional inspections

High-resolution imaging with 12 megapixels

YSi-V utilizes industry's first 12 megapixel camera along with a telecentric lens supporting a high number of pixels. It also incorporates a high-speed signal processing control system and other features to achieve an inspection capability twice that of ordinary units along with an expanded visual field, superior image resolution, and high speed.

Provides optimal inspection technique selectable from 5 different methods

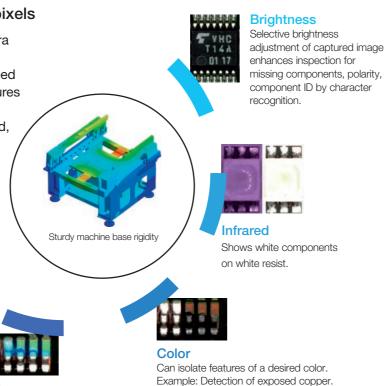


Laser

Detects height.

Example: Floating lead detection.

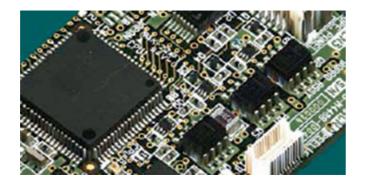
Note: Laser is provided as an option.





Height, and sloped surface 3-dimensional inspections (option)

YSi-V makes high-speed height measurements within an entire field of view, in one batch. This 3D imaging reliably detects floating components that a 2D inspection can miss. Detection is also improved where color tones between board and components are similar or when there is interference between silk-screen and pattern. YSi-V 3D inspection can also detect the slope gradient and direction, and make pass-fail contour judgements.



2D and 3D inspection of leaded packages and chip components

Shape

Extracts sloped sections.

Example: Detection of solder fillet.

2D





3D

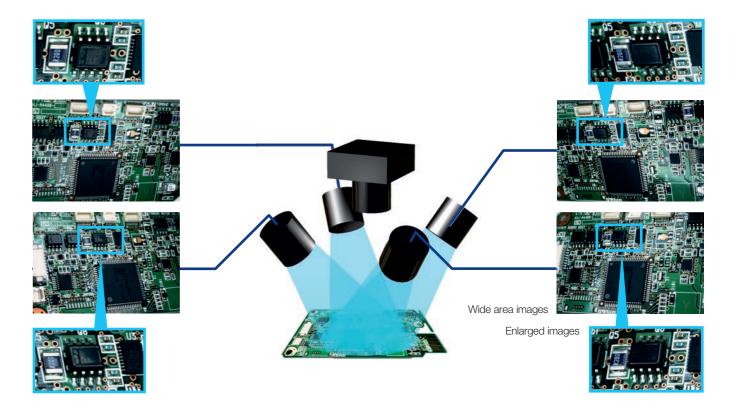




4-Direction angular camera (option)

Besides 2-dimensional inspection images, YSi-V can capture images of all features within a wide field of view from four directions, using unique in-house technology. You can isolate a component and inspect as if

looking at the board from four different angles, but without removing the board from the line. This minimizes human contact with boards, thereby eliminating errors and reducing the number of process steps.



Quality Assistance, using mobile Pass/Fail judgement (option)

If a defect is detected, this system identifies the mounter responsible and feeds back error information. That mounter is automatically set to cycle-stop and data such as the setting position, head number and nozzle type appears on the monitor.

The error information and an image of the defect are sent by wireless LAN to the operator's mobile terminal. The operator can communicate pass/fail judgement directly from the mobile device, to resume normal line operation.

