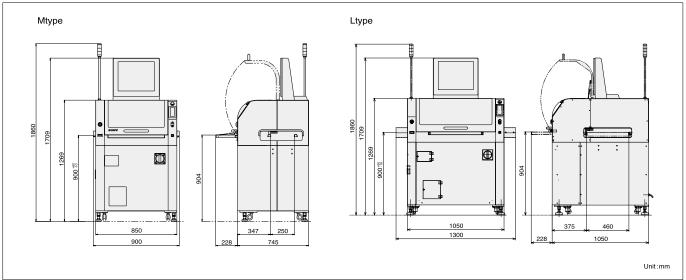
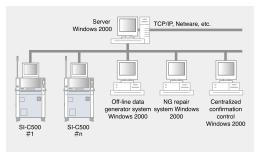
——————————————————————————————————————		
Model name	SI-C500	
	M-type	L-type
Image processing system	High resolution monochrome CCD camera system/ High-intensity LED (red)	
Resolution	19.0 $\mu$ m / pixel (Other resolution optionally available)	
Field of view	Approx. 31.0 mm x 23.0 mm / frame	
Detected defects	Insufficient, excessive, or inaccurate solder deposits, bridging, missing components, inaccurate component mounting, reversed components, incorrect polarity	
Board size	50 x 50 mm ~ 250 x 330 mm	50 x 50 mm ~ 460 x 510 mm
Board thickness	0.5 ~ 2.0 mm	
Clearance	Upper side: 20 mm / Lower side: 40 mm (15 mm with supporting base unit mounted)	
Position reference	Front-side-rail origin (Back-side rail origin available upon request)	
Flow of work	Left to right / Right to left (To be specified at factory set-up)	
Conveyor height	900 mm - 10 mm + 60 mm	
Inspection speed	0.4 sec / frame (top image, side image)	
Operating system	Windows® 2000	
Program capacity	127 models	
Power supply / consumption	AC 100 V, 50/60 Hz, Max. 1.5 kVA (Other power rating optionally available.)	
Air pressure	0.49 MPa dry air	
External dimensions	900 (W) x 745 (D) x 1709 (H) mm (Machine status light height 1860mm)	1300 (W) x 1050 (D) x 1709(H) mm (Machine status light height 1860mm)
Weight	350kg	460kg
Optional functions	LAN compatible server, off-line data generator, NG repair system, centralized confirmation control,	
	automatic data conversion program, stencil function, automatic conveyor width adjustment, NG printer, IN/OUT extension conveyer	

## **■**External view



## **■**Operating support options

Systems running on Windows 2000 are linked to the network via the server. All the SI-C500 data can be stored in the hard disk on the server and managed centrally within the worksite.





With a stand-alone PC, data and inspection libraries can be created or modified anywhere.



Character recognition on the IC can be performed using the OCR function.

OCR setup screen



Under semi-automatic operation. OK/NG evaluations from more than one machine can be centrally managed with one PC.



(Off-line repair system / Data collection function) Picture output of NG PWB information. Also performs repair-support



Inspection data can be automatically generated from CAD data and/or mounter data.

## ⚠ Safety Notice: For your safety, please read the instruction manual carefully before using the product.

## **Sony Manufacturing Systems Corporation**

Sony Manufacturing Systems Corporation Surface Mounter Sales Dept. 1-10 Klyoku-cho, Kuki-shi, Saitama-ken, 346-0035 Japan Tel:+81-480-23-4896 Fax:+81-480-23-1425

Sony Taiwan Limited FA Marketing Group 6F, 145 Changchun Road Taipei 104, Taiwan Tei: +886-2-2522-9760 Fax: +886-2-2522-2396 http://www.sony.com.tw/company/family/FA/FA,asp

http://www.sonysms.co.jp/ The contents of this literature are as of Oct.2005

Sony Electronics (Singapore) Pte. Ltd.
Sony Precision Engineering Center
No.52 Tuas Avenue 9 Singapore 639193 Tel: +65-6860-8004 Fax:+65-6860-8010

Sony Manufacturing Systems America, Inc. 20381 Hermana Circle, Lake Forest, CA 92630 Tel: +1-949-770-8400 Fax:+1-949-770-8408 http://www.sonysms.com

Semiconductor & Electronic Solutions A division of Sony United Kingdom Ltd Fhe Heights, Brooklands, Weybridge, Surrey KT13 0XW, UK Fel: +44-870-7390122 Fax: +44-1932-817024

Zero-VOC (Volatile Organic Compound) vegetable oil ink 016E-0510-06-01A

# SONY

PWB Visual Inspection Machine SI-C500

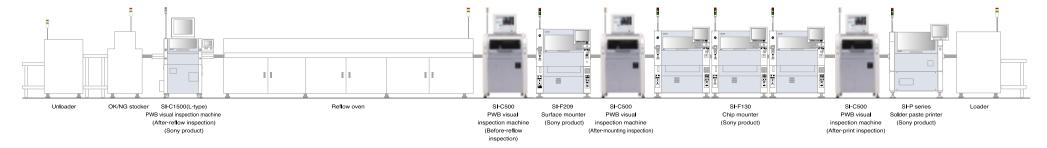


# **PWB VISUAL INSPECTION MACHINE**



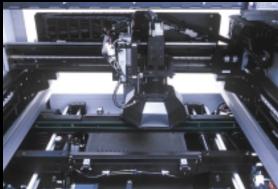
High-precision defect detection including poor solder printing, inaccurate component mounting and irregular material. Flexibly fit for 3 positions in PWB production process.

High-speed data generation requires just 5 minutes, and high-precision detection with a 2 megapixel camera - SI-C500 offers the speed and precision demanded for the inspection of large and high-density PWBs.SI-C500 meets the requirements for use at 3 positions, i.e. "after-print", "after-mounter" and "before-reflow" inspection process. Easy and rapid data generation on the LAN or stand-alone PC and repair support system enhances the product quality and efficiency of your PWB assembly lines.

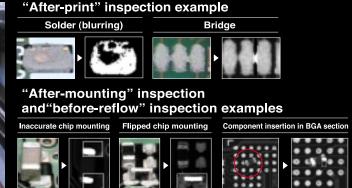


## Supporting "after-print" inspection, "after-mounting" inspection and "before-reflow" inspection.

The table-lock function enables "before-reflow" and "after-mounting" inspections.



Locked table provides no vibration to mounted components on the PWB







the inspections of lead-free and halogen-free PWBs

