

S2088

The Ideal Entry into Automatic Optical Inspection



AOI

Desktop-AOI

Quality Assurance for Low-Volume-High-Mix Production and Prototypes

Unsurpassed inspection depth –
down to 0201, 0,4 mm pitch

Compact system
with integrated PC

Precise linear drives

High-resolution color camera

Quick, easy program generation
with Viscom VVP and EasyPro

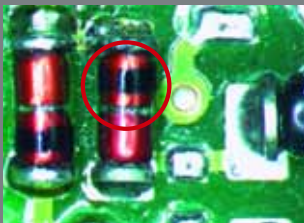
High performance OCR-software

Ergonomic product loading

Add-on modules:
Repair station,
Off-line programming
and VPC evaluation

Worldwide, competent service:
On site, hotline and remote support

Internet-support



Component with
reversed polarity



SMD resistor with
faulty positioning



Placement defect:
Tantalum capacitor



Solder bridge



The best method for assuring production quality is automatic optical inspection. Our desktop system offers the best entry to utilizing AOI in your process. This system is the perfect solution for low-volume-high-mix production, prototype assembly and is ideally suited to support the start-up of new assemblies destined for high volume production. The Desktop-AOI is also a perfect solution for customers with floor space constraints and where a manageable cost investment is required. The system delivers quick setup and robust process repeatability, which are important prerequisites, especially when production occurs in small lots and short cycle times.

S2088 – Integrated Viscom power on a desktop

The S2088 has access to all typical orthogonal illumination types for paste, pre- and post-reflow inspection, with the corresponding Viscom algorithms. The Desktop System is equipped with a high-resolution color camera. '0201 components, fine-pitch ICs and solder joints can be inspected easily and with high precision.

Program generation and optimization are conducted quickly and easily with Viscom VVP and EasyPro. Functions such as auto-optimization, integrated error slip verification and VPC-based optimization are supportive components of EasyPro and facilitate the hassle-free setup of new products. Newcomers to EasyPro have the possibility of a new, simplified programming, that covers the important inspection areas quickly and securely.

The complete hardware – system computer, axis control and all other essential components – are integrated into the compact design. The precise linear drives of the S2088, with their high-resolution measurement system, are unique in this class. This system can be deployed anywhere in the printed circuit assembly process, paste, pre-reflow and post-reflow.

All Viscom systems are 100% lead-free compatible – the algorithm-based evaluation delivers optimal results even with varying contrasts.

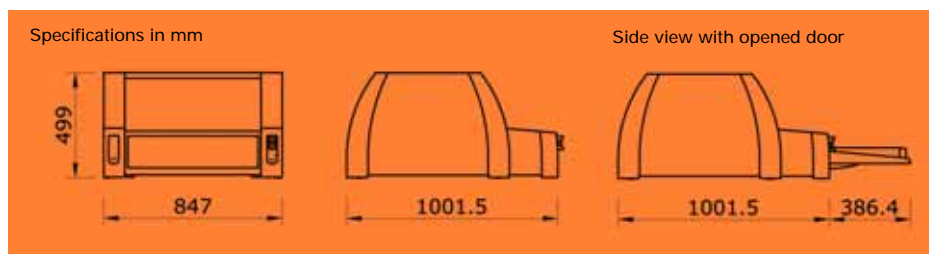
This system is backed by on site service and support worldwide. Remote diagnosis and hotline offer individualized and efficient back-up. In addition, our internet customer forum located on our website, offers software upgrade, inspection pattern downloads and up-to-date information at no additional costs to our customers.



Technical Specifications

S2088

Inspection range		Solder joints, component placement, solder paste
Sensor technology		Orthogonal sensor module with mega pixel technology
Image field size	30 x 22.5 mm	
Number of mega pixel cameras	1	
Pixel size	15.5 µm/pixel	
Software		User interface: Viscom EasyPro
		VPC: Viscom VPC-package, open interface (option)
		Verification and repair station: Viscom S6002 HARAN (option)
		Remote diagnosis: Viscom SRC (option)
		Programming station: Viscom PST34 (option)
Analysis computer		Operating system: Windows®
		Processor: Intel PENTIUM® processor technology
PCB handling		PCB dimensions: 450 x 350 mm (17.7" x 13.8") (L x W)
		PCB thickness: 1.0 - 5.0 mm
		Width adjustment: Manual
		Handling unit: Synchro-linear motors
		PCB clamping: Upwards
		PCB contact area: 3 mm
		Upper clearance: 35 mm (1.38")
		Lower clearance: 50 mm (1.97")
Inspection speed		Up to 20 cm²/s
Other system data		Voltage: 1PN/PE 110-240 V 50/60 Hz, usage < 1kW
		System dimensions: 847 x 1001,5 x 499 mm (33.3" x 39.4" x 19.6") (W x D x H)
		Weight: Max. 163 kg (359 lbs)



Headquarters:
 Viscom AG
 Carl-Buderus-Str. 9 - 15
 30455 Hanover - Germany
 Tel.: +49 511 94996-0
 Fax: +49 511 94996-900
 Email: info@viscom.de
 http://www.viscom.de

The Americas:
 Viscom Inc.
 1775 Breckinridge Parkway
 Suite 500 · Duluth/Atlanta, GA 30096
 Tel.: +1 678 966-9835
 Fax: +1 678 966-9828
 Email: info@viscom.com
 http://www.viscom.com

Asia/Pacific:
 Viscom Machine Vision Pte Ltd.
 150 Kampong Ampat
 #01-02, KA Centre
 Singapore 368324
 Tel.: +65 6285-9891
 Fax: +65 6285-9321
 Email: info@viscom.com.sg

France:
 Viscom France S.A.R.L.
 Tel.: +33 134-641616
 Email: info@viscom.fr