VISCOM
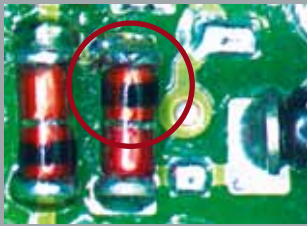## vision technology

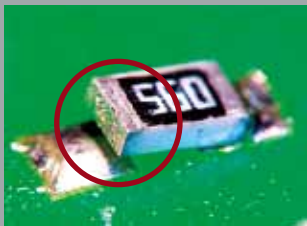# S2088-II

High-End Desktop AOI

AOI

More than an Entry into AOI

Quality Assurance for Medium Lot Sizes and Prototypes, with Optimal Utility as Programming System
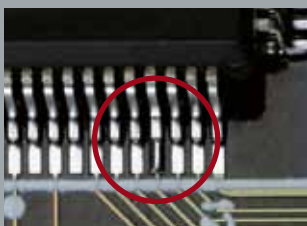
Inspection scope:

Component with incorrect polarity

Chip tombstoning

Defective placement, Tantal capacitor

Lifted lead, QFP

Highest inspection depth with 8M cameras

Selective high resolution with OnDemandHR function

Angular inspection for fine pitch components

100 % compatible with Viscom in-line systems

Fast loading through an open PCB intake

Color evaluation

Precise linear drive

Fast program creation with either EasyPro or vVision

High performance OCR software

Auxiliary modules: verification, off-line programming and SPC evaluation

Worldwide competent service on site, hotline and remote support

Viscom Support Website

One decisive approach to assuring production quality is automatic optical inspection. A desktop system offers the optimal entry to AOI without cutting inspection quality. The system is chiefly utilized in production of medium lot sizes, prototyping and off-line program creation, and is ideally suited to support the start-up of new assemblies. It is also the ideal solution for customers with floor space constraints and where a manageable cost investment is required.

S2088-II – Desktop AOI with 8M camera technology and angular cameras

The S2088-II employs high performance **Viscom 8M camera technology**, which also satisfies extreme cycle time demands. **Angled cameras** secure reliable detection of critical defects such as lifted leads in the fine pitch range. With the **OnDemandHR function**, resolution of 23.4 or 11.7 µm/pixel can be flexibly selected for each analysis, without diminishing image field size. Even the smallest defects on 01005 components are detected with precise reliability. Thus equipped, the system offers the highest inspection depth without loss of speed. In addition, the inspection system provides the option of **color evaluation**.

The 8M camera technology makes the S2088-II **100 % compatible with Viscom in-line systems**, so users can benefit from all the Viscom advantages during programming and operation. Inspection programs are quickly and easily imported to in-line capable Viscom systems such as the S3088 *flex*, S6056 and X7056.

The **operator interface Viscom EasyPro** is based on a model-oriented component library and intuitive programming. The operator virtually sees the component before his eyes, to make programming easy and convenient. The essential functions of EasyPro are a **user-friendly operator interface**, **intelligent data import** and the **IPC-compliant inspection library**, which enables inspection plan creation in only three steps. As a central feature, **integrated defect verification TrustedChange** simplifies the **reduction of pseudo defects** while securing a **zero defect strategy** for the program. With TrustedChange, the quality of the inspection program can be confirmed quickly and easily at any time, whether for in-house production needs or documentation during customer audits.

The **precise linear drive** of the S2088-II, with its high-resolution measurement system, is unique in this class. Thus, **PCBs up to 420 x 457 mm** – **orthogonal up to 600 x 457 mm** – can be inspected with the highly accurate **combi module**. **Loading** is accomplished through a highly efficient, **open access printed circuit board intake**. This allows boards to be changed and the next inspection started in a matter of a few seconds.
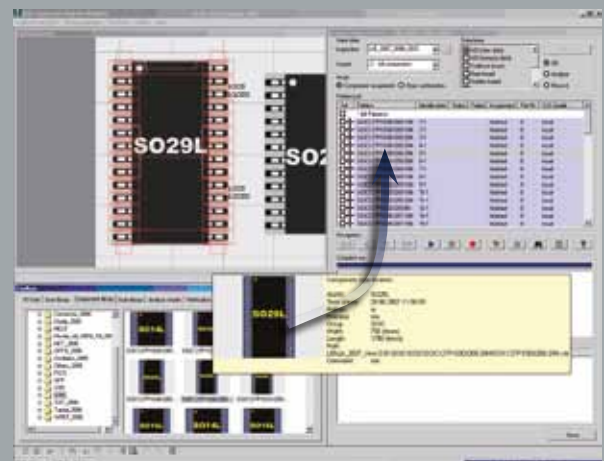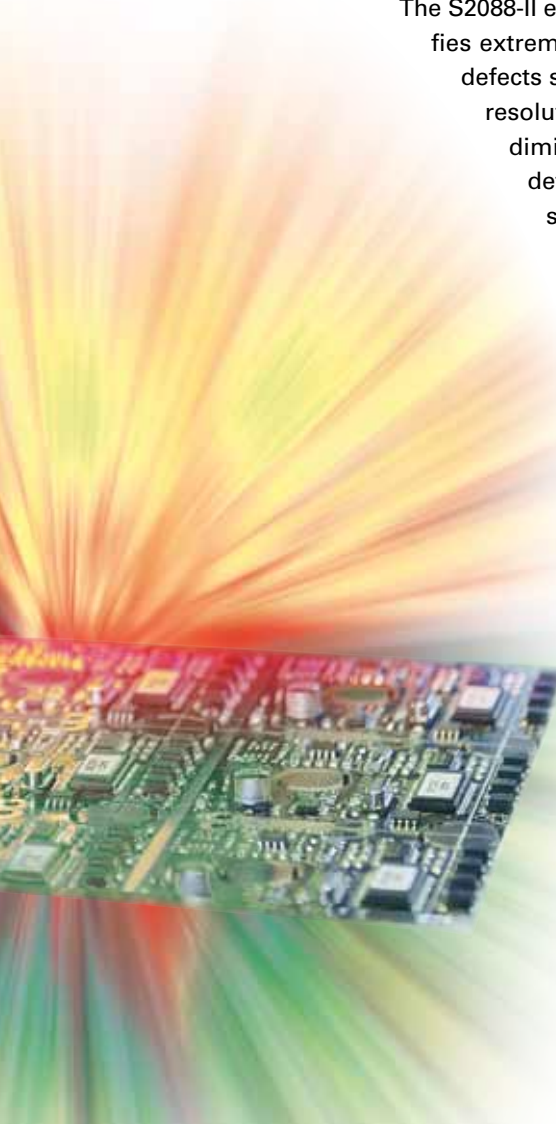
Fast program creation with EasyPro

Technical Specifications

VISCOM vision technology

S2088-II

Application	
	Component placement, solder joints

Camera technology			
8M combi module/8M orthogonal module			
	Camera module 8M (white LEDs)		
		Image field	57.6 x 43.5 mm
		Resolution	23.4 µm (standard), 11.7 µm (high) switchable with OnDemandHR
		Number of mega pixel cameras	4
	Angular view module 8M (white LEDs)		
		Resolution	16.1 µm (standard), 8.05 µm (high) switchable with OnDemandHR
		Number of megapixel cameras	4, 8 (optional)

Software	
User interface	Viscom EasyPro/vVision
Verification station	Viscom S6002 HARAN/vVerify
SPC	Viscom SPC (statistical process control), open interface (optional)
Remote diagnosis	Viscom SRC (software remote control) (optional)
Off-line programming	Viscom PST34 (external Programming Station) (optional)

System computer	
Operating system	Windows®
Processor	Intel® Core™ i7

PCB handling	
PCB dimension	Combi module: 420 x 457 mm (16.5" x 18") (L x W)
	Orthogonal module: 600 x 457 mm (23.6" x 18") (L x W)
PCB support	Optional
Width adjustment	Manual
Handling unit	Synchronous linear motors
PCB clamping	Mechanical, upwards
Upper transport clearance	35/50 mm (1.38"/1.97")
Lower transport clearance	50 mm (1.97") (with PCB support), 60 mm (2.36") (without PCB support)
Work table	Optional

Inspection speed	
	Up to 20 - 40 cm²/s

Other system data	
Power requirements	1 PN/PE, 110-240 V, 50/60 Hz, consumption < 1 kW
System dimensions	Approx. 990 x 1210 x 745 mm (39.0" x 47.6" x 29.3") (L x W x H)
Weight	Max. 130 kg (Max. 287 lbs) (without work table)

Top view

Dimensions in mm   990   1210   745

Visit our website to find international subsidiaries and
representatives in Europe, USA and Asia:

www.viscom.com

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