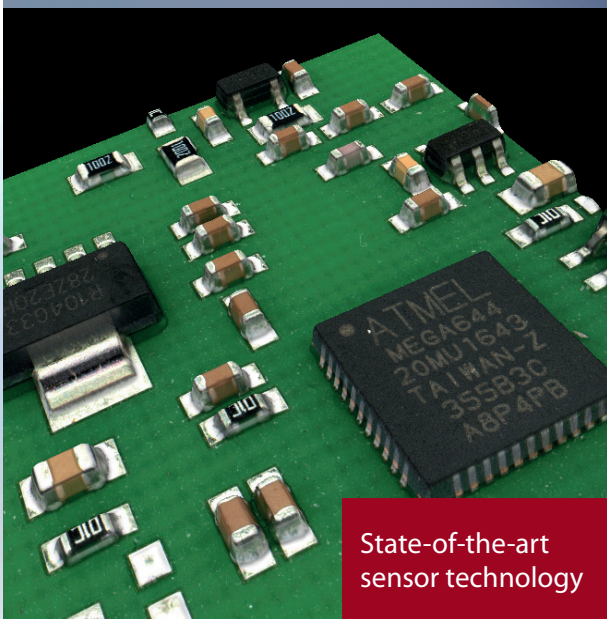
VISCOM
vision technology

High-Precision Quality Control in Double-Track Operation



State-of-the-art sensor technology

vAI

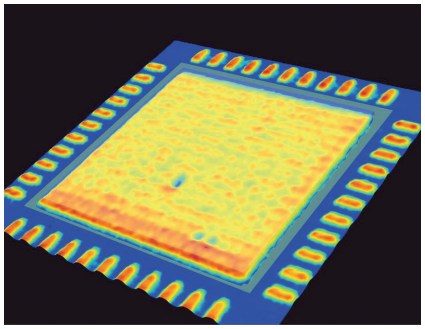
iS6059 Dual-Lane Inspection

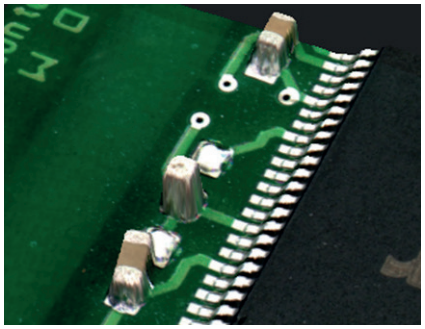
Future-oriented solutions to maximise SMT production

3D SPI

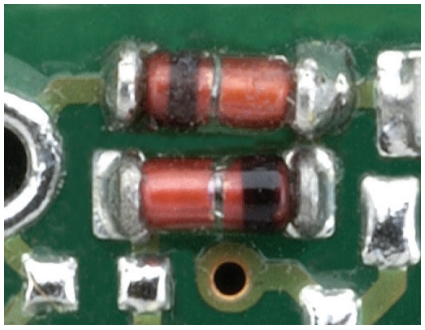
3D AOI

Maximum Output in the Minimum Space


Volume analysis in SPI


Tombstone in 3D view


Lifted lead, angled view


Wrong polarity

High-throughput 3D-AOI and 3D-SPI technology

Versatile double-track applications in a small footprint

Comprehensive connection to cutting-edge interfaces

Smart tools for effective process control

Verification with artificial intelligence

Customer hotline and website, remote maintenance

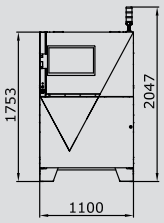
When space and time are at a premium in the production of electronic devices, double-track lines quickly prove to be the ideal solution. In addition to its single-lane optical systems, Viscom also offers configurations where two assemblies can be inspected virtually simultaneously with high throughput. The quality control of paste printing, assembly and soldering is thus compactly designed for maximum efficiency and offers all the well-known advantages of Viscom's state-of-the-art hardware and software.

The sensor technology meets the highest standards of accuracy and fast data processing. With automatic self-tests, the systems ensure that their results are always reliable and repeatable. Simple operation and inspection program creation as well as a wide range of smart digital networking options are also among the advantages of Viscom's dual-lane systems.

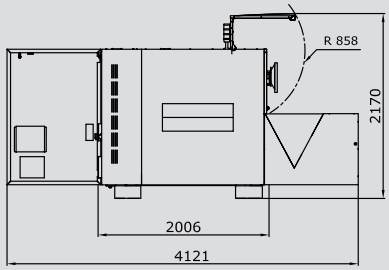
The machine can also be used flexibly with a single track for quality control of very large assemblies. Extensive libraries are available for highly reliable verification of inspection results and fine-tuning of inspection programs. The future-oriented advantages of artificial intelligence are now also available on this new platform.

Technical Specifications iS6059 Dual-Lane Inspection

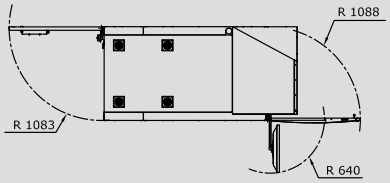
Front view



Side view



Top view



Dimensions in mm

		iS6059 Dual-Lane Inspection			
Inspection scope		Solder joints, mounting, open surfaces, character recognition, solder paste, mold, assembly			
Camera technology		XMs-II	XM8-II	XMplus-II	XM-SPI-II
	3D sensor technology				
	Z-resolution	0.5 µm	0.5 µm	0.5 µm	0.1 µm
	Z-range	Up to 30 mm (1.1")	Up to 30 mm (1.1")	Up to 30 mm (1.1")	Up to 5 mm (0.1")
	Angled view cameras				
	Number of megapixel cameras	8	8	8	4
	Orthogonal camera				
	Resolution	10 µm	8 µm	10 µm	12 µm
	Field of view	50 mm x 50 mm (1.9" x 1.9")	40 mm x 40 mm (1.5" x 1.5")	50 mm x 50 mm (1.9" x 1.9")	58 mm x 58 mm (2.2" x 2.2")
Inspection speed		Up to 65 cm^2/s	Up to 50 cm^2/s	Up to 70 cm^2/s	Up to 80 cm^2/s
Software	User interface	Viscom vVision, SI on request			
	Statistical process control	Viscom vSPC/SPC, open interface (optional)			
	Verification station	Viscom vVerify/HARAN			
	Remote diagnosis	Viscom SRC (optional)			
	Programming station	Viscom PST34 (optional)			
System computer	Operating system	Windows®			
	Processor	Intel®Core™i9			
PCB handling	PCB dimensions	450 mm x 350 mm (17.7" x 13.7"), minimum width 70 mm (2.7")			
	Transport height	850 - 950 mm ± 20 mm (33.4" - 37.4" ± 0.7")			
	Width adjustment	Automatic			
	Transport concept	Dual-track transport system			
	PCB clamping	Pneumatic			
	Upper transport clearance	50 mm (1.9")			
	Lower transport clearance	50 mm (1.9")			
Other system data	Positioning unit	Synchronous linear motor			
	Interfaces	SMEMA \ Hermes \ third-party providers			
	Power requirements	230/400 V, 50/60 Hz, 3P/N/PE +/- 10%; 4 – 6 bar working pressure			
	System dimensions	1100 mm x 2006 mm x 1753 mm (43.3" x 78.9" x 69") (W x D x H)			
	Weight	Approx. 1150 – 1250 kg (2535.3 – 2755.7 lbs)			

Specifications and other system information are subject to change without notice and may differ from the information displayed at the time of ordering.

VISCOM
vision technology

Headquarters:

Viscom SE
Carl-Buderus-Str. 9–15
30455 Hanover
Germany
Phone: +49 511 94996-0
Email: info@viscom.de

Europe

Viscom France S.A.R.L.
6, rue Saint Simon
Zone du Vert Galant
95310 Saint-Ouen l'Aumône
France
Phone: +33 134 641616
Email: info@viscom.fr

Africa

Viscom Tunisie S.A.R.L.
Rahma Building; App B5,
Block B, 2nd floor
Lac Houran Street – Berges du Lac
1053 Tunis, Tunisia
Phone: +216 71960584
Email: info@viscom.fr

Americas

Viscom Inc.
1775 Breckinridge Parkway
Suite 500, Duluth (Atlanta)
GA 30096, USA
Phone: +1 678 966-9835
Email: info@viscomusa.com

Viscom Inc.
898 B Faulstich Court
San José, CA 95112, USA
Phone: +1 818 4160514
Email: info@viscomusa.com

Viscom Inc.
9600 Great Hills Trail Suite
150 W, Unit# 144
Austin, TX 78759, USA
Phone: +1 737 280-5759
Email: info@viscomusa.com

Viscom Inc.
Av. Vallarta 6503
Concentro Local F-27
Zapopan (Guadalajara)
JAL. C.P. 45010, Mexico
Phone: +52 333110-1567
Email: info@viscomusa.com

Asia

Viscom Machine Vision Pte. Ltd.
150 Kampong Ampat/
#01-02 KA Centre
368324 Singapore
Singapore
Phone: +65 62859-891
Email: info@viscom.com.sg

Viscom Machine Vision Trading Co. Ltd.
2nd floor, Block D
No. 1010 Kaixuan Road
200052 Shanghai, China
Phone: +86 21 61619368
Email: info@viscom.cn

VICN Automated Inspection Technology (Huizhou) Co. Ltd.
2nd Hechang Road No. 25
Zhongkai High-tech Zone
516006 Huizhou City
Guangdong province, China
Phone: +86 752 2607785
Email: info@viscom.cn

Viscom Machine Vision (India) Pvt. Ltd.
No. 2, Katha, No. 279/283
Hulimangala Village
Jigani Hobli, Anekal Taluk
Bangalore 560105, India
Phone: +91 9481202030
Email: info@viscom.com.sg

www.viscom.com

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