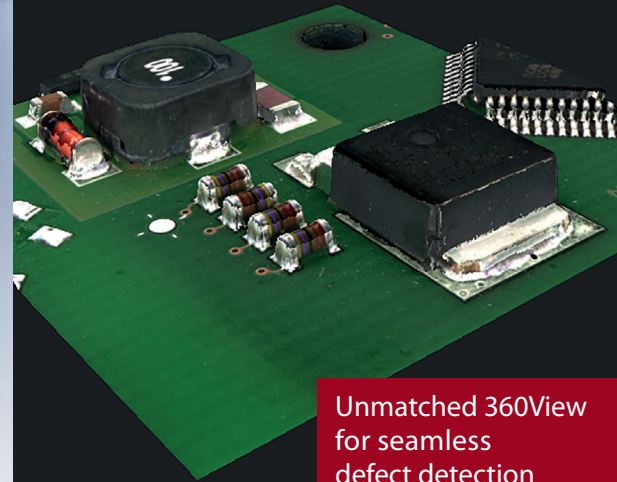




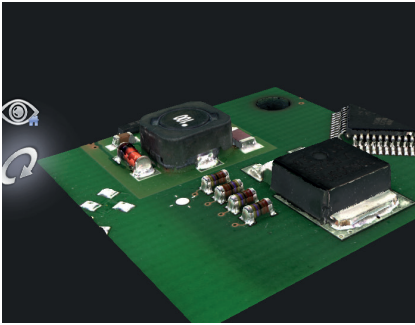
Economical  
Quality Assurance  
in Electronics  
Manufacturing



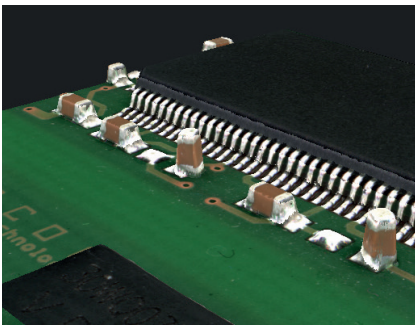
## **iS6059 PCB Inspection**

Extremely fast and precise inspection  
for high-volume production

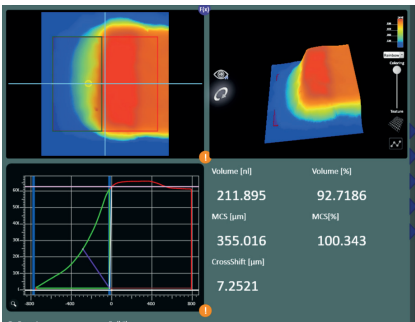
# Accurate Inspection Results for Efficient SMT Production



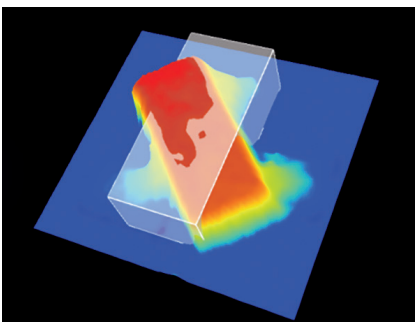
Realistic inspection images with 360View



Reliable detection of defects such as tombstoning



3D solder joint measurement



Component body detection using 3D methods

---

**High throughput for manufacturing**

---

---

**Reliable quality assurance**

---

---

**Highly effective process control tools**

---

---

**Simple and intuitive system operation**

---

---

**Use of artificial intelligence in various fields of application**

---

---

**Customer hotline and website, remote maintenance**

---

The iS6059 PCB Inspection is designed to meet the demands for high throughput production lines, capable of inspecting cutting-edge electronics, while remaining cost-effective at the same time. The system is based on the unique 3D AOI technology from Viscom and combines accurate defect detection with high inspection speed. This makes the iS6059 PCB Inspection the first choice for efficient SMT production.

Some of the market leading features of the iS6059 PCB Inspection include an inspection speed of up to 65 cm<sup>2</sup>/s and a field of view measuring 50 mm x 50 mm. With eight angled-view cameras, it achieves a virtually shadow-free 3D inspection. This is one of the key advantages of this system.

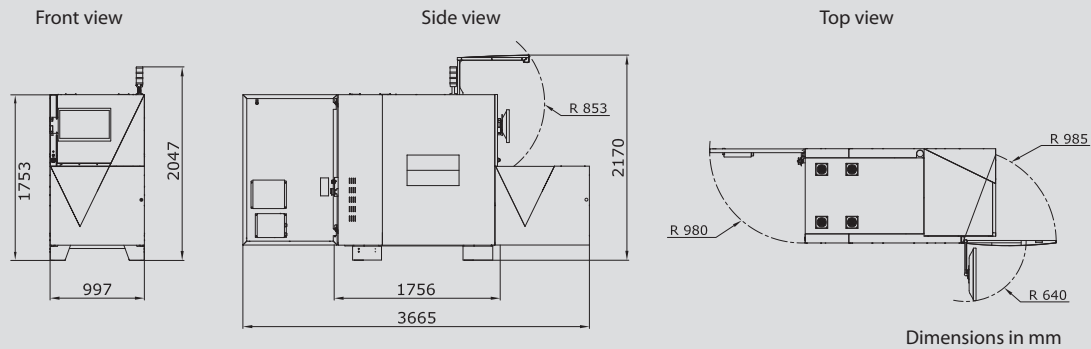
For optimal process control and comprehensive defect coverage, the results from automatic optical inspection can be intelligently linked with SPI, AXI and MXI results via the Quality Uplink software from Viscom.

The system's modern user interface, vVision, simplifies operation and inspection program generation, making it intuitive and efficient at the same time.

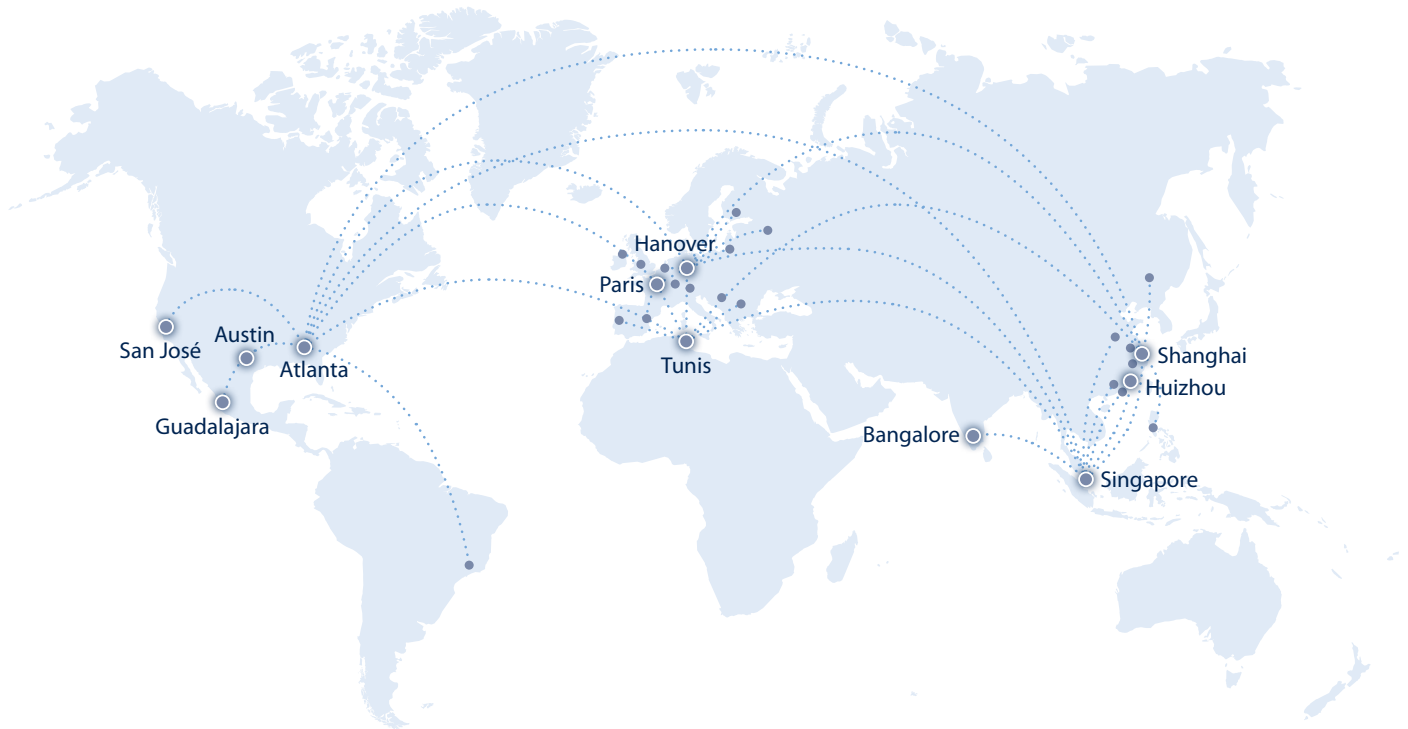


# Technical Specifications

## iS6059 PCB Inspection



iS6059 PCB Inspection		
<b>Inspection scope</b>	Solder joints, mounting, open surfaces, character recognition, solder paste, mold, assembly	
<b>Camera technology</b>		XM8-II
	3D sensor technology	
	Z-resolution	0.5 µm
	Z-range	Up to 30 mm (1.1")
	Angled view cameras	
	Number of megapixel cameras	8
	Orthogonal camera	
	Resolution	10 µm
<b>Inspection speed</b>	Field of view	50 mm x 50 mm (1.9" x 1.9")
		Up to 65 cm²/s
<b>Software</b>	User interface	Viscom vVision/SI EasyPro
	Statistical process control	Viscom vSPC/SPC, open interface (optional)
	Verification station	Viscom vVerify/HARAN
	Remote diagnosis	Viscom SRC (optional)
	Programming station	Viscom PST34 (optional)
<b>System computer</b>	Operating system	Windows®
	Processor	Intel®Core™i9
<b>PCB handling</b>	PCB dimensions	508 mm x 508 mm (20" x 20"); long-board option available
	PCB support	Optional
	Transport height	850 – 950 mm ± 20 mm (33.4" - 37.4" ± 0.7")
	Width adjustment	Automatic
	Transport concept	Single-track transport system; dual-lane option with iS6059 Dual-Lane Inspection available
	PCB clamping	Pneumatic
	Upper transport clearance	50 mm (1.9")
<b>Other system data</b>	Lower transport clearance	50 mm (1.9")
	Positioning unit	Synchronous linear motor
	Interfaces	SMEMA, Hermes, CFX, third-party providers
	Power requirements	400 V, 50 Hz, 3P/N/PE +/- 10%; 4 – 6 bar working pressure
	System dimensions	997 mm x 1756 mm x 1753 mm (39.2" x 69.1" x 69") (W x D x H)
	Weight	Approx. 1000 – 1080 kg (2204.6 – 2380.9 lbs)



#### Headquarters:

##### **Viscom SE**

Carl-Buderus-Str. 9–15  
30455 Hanover  
Germany  
Phone: +49 511 94996-0  
Email: [info@viscom.de](mailto: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](mailto: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](mailto: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](mailto:info@viscomusa.com)

##### **Viscom Inc.**

898 B Faulstich Court  
San José, CA 95112, USA  
Phone: +1 818 4160514  
Email: [info@viscomusa.com](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto: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](mailto:info@viscom.com.sg)

[www.viscom.com](http://www.viscom.com)



Viscom also works with an extensive network of local representatives and distributors in Europe, the Americas, Asia and Africa. Please refer to our website for a list of our representatives and distributors.