



**NEW  
3D AOI**



Innovative  
Inspection of PCB  
Top and Bottom  
Sides

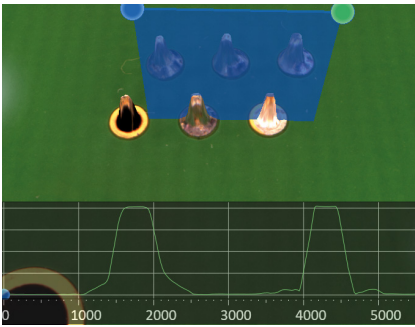


### **iS6059 Double-Sided Inspection**

Simultaneous optical quality control from above and below

**3D AOI**

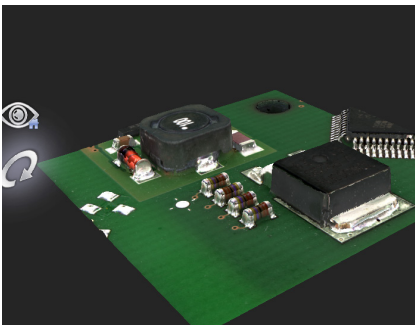
# Unmatched 3D AOI for Flawless Inspection on Both Sides



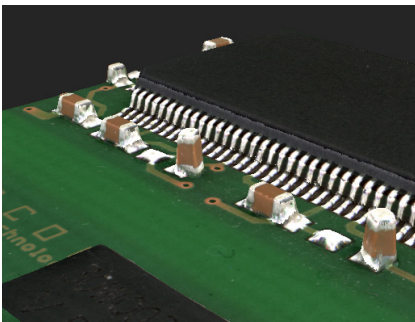
Reliable 3D inspection of THT solder joints



Insufficient wetting (front) and missing pin (back)



Realistic inspection images with 360View



Reliable detection of defects such as tombstoning

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**Powerful 3D sensor technology for quality control from above and below**

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**Shadow-free results by using eight angled cameras respectively**

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**Versatile handling of many different inspection object types**

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**Comprehensive networking options including IPC Hermes 9852 and IPC CFX**

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**Reduction of cycle times thanks to inspection from both sides**

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**Competent service worldwide – online, by phone, and on-site**

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The iS6059 Double-Sided Inspection is an automatic optical inspection system (3D AOI) for inline use in the electronics manufacturing industry. It can inspect assemblies from above and below without requiring objects to be flipped.

A special feature of the iS6059 Double-Sided Inspection are two state-of-the-art sensor modules (each equipped with 9 cameras and a structured-light projector), which capture images and 3D height information on separate traversing units.

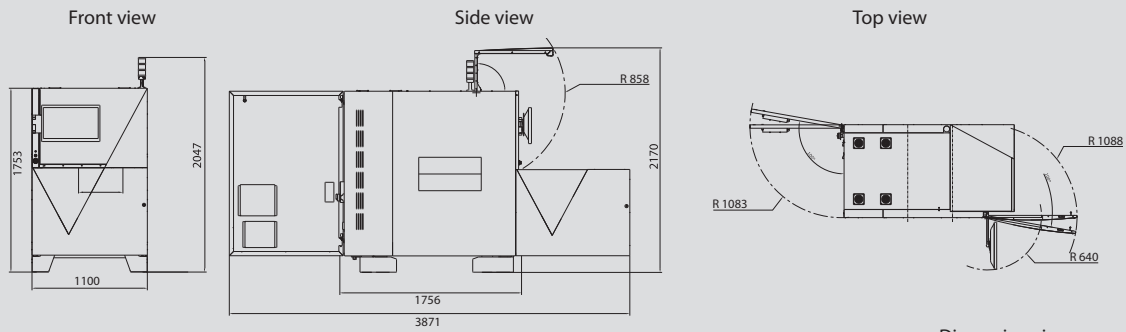
The simultaneous double-sided inspection fulfills the high demands that Viscom places on its systems in terms of throughput, durability, analysis functions and connectivity.

Important key user segments are manufacturers of products from the electric vehicle, charging infrastructure, and renewable energy sectors, that are still using through-hole technology (THT). Another area of use is various applications with double-sided SMD assembly.



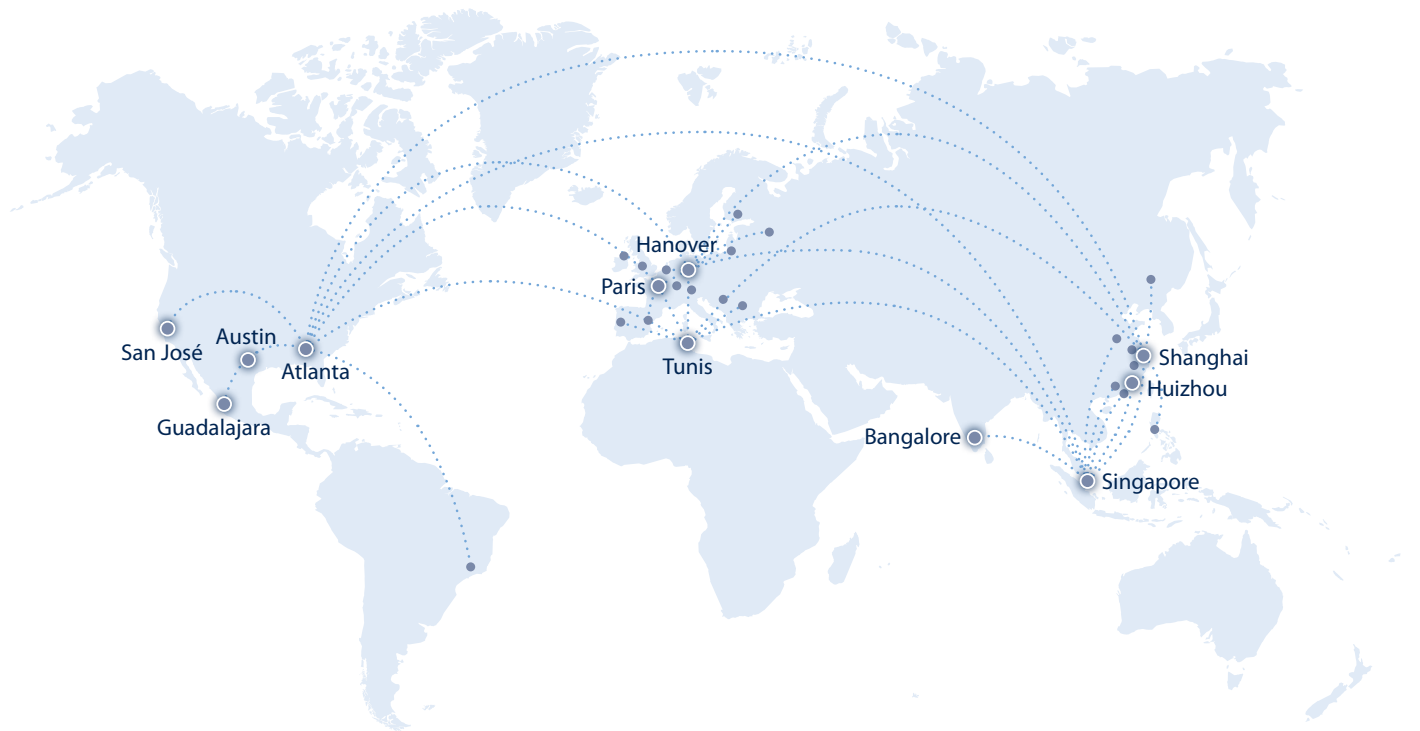
# Technical Specifications

## iS6059 Double-Sided Inspection



Dimensions in mm

		iS6059 Double-Sided Inspection
<b>Inspection scope</b>		Selective and wave soldering, standard solder joints according to IPC, open surfaces, character recognition, solder paste, mold, press fit
<b>Camera technology</b>		2 x XMu-II
	3D sensor technology	
	Z-resolution	0.5 $\mu\text{m}$
	Z-range	Up to 30 mm (1.2")
	Angled view cameras	
	Number of megapixel cameras	8
	Orthogonal camera	
	Resolution	13 $\mu\text{m}$
	Field of view	50 mm x 50 mm (2" x 2")
<b>Inspection speed</b>		Up to 100 $\text{cm}^2/\text{s}$ (both sides combined)
<b>Software</b>	User interface	Viscom vVision
	Statistical process control	Viscom vSPC/SPC, open interface (optional)
	Verification station	Viscom vVerify
	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 560 mm (20" x 22")
	Transport height	850 - 950 mm $\pm$ 20 mm (34" - 37" $\pm$ 0.8")
	Width adjustment	Automatic
	Transport concept	Single-track transport system
	PCB clamping	Pneumatic
	Upper transport clearance	50 mm (2")
	Lower transport clearance	50 mm (2")
<b>Other system data</b>	Positioning unit	Synchronous linear motor
	Interfaces	SMEMA, Hermes, third-party providers
	Power requirements	400 V, 50 Hz, 3P/N/PE +/- 10%; 4 - 6 bar working pressure
	System dimensions	1100 mm x 1756 mm x 1753 mm (W x D x H)
	Weight	Approx. 1250 kg (2756 lbs)



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