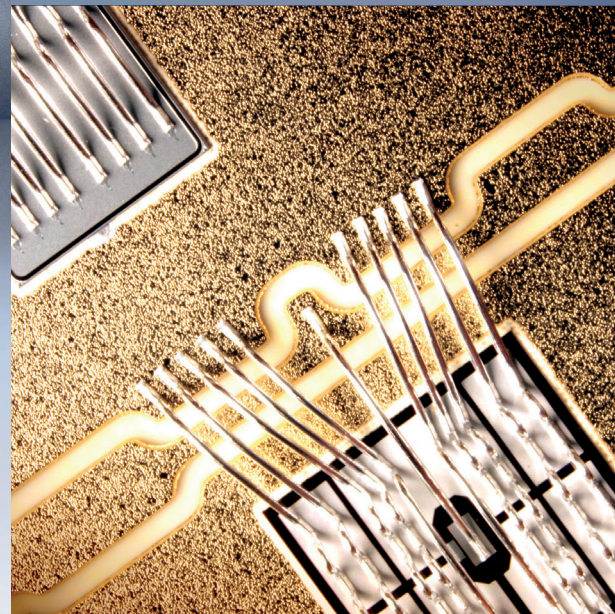




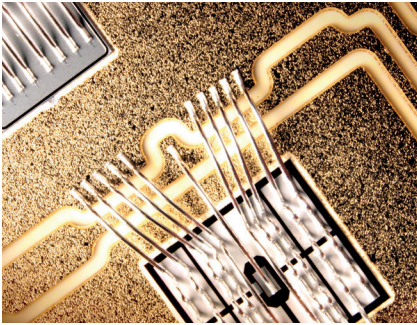
High-Performance  
Automatic  
Wire Bond Inspection



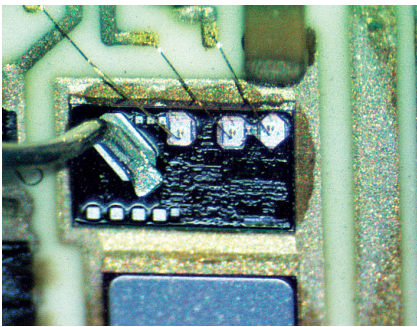
## **iS6059 Wire Bond Inspection**

Reliable Inspection of Wire Bond Connections in 2D and 3D

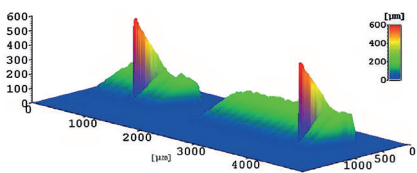
# Reliable 2D and 3D Wire Bond Inspection



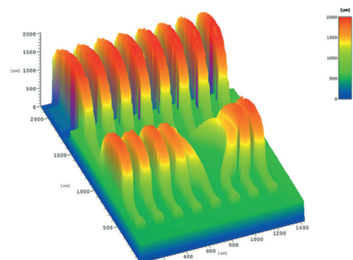
Defect detection on connections



Inspection of different wire thicknesses



Thin-wire lifter in 3D view



Bent wires in the 3D view

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**High-performance inspection software from Viscom**

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**Extremely high accuracy and inspection depth**

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**Camera technology adapted to the respective inspection task**

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**Flexible use for different inspection objects**

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**Flexible transport concepts for high cycle rates**

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

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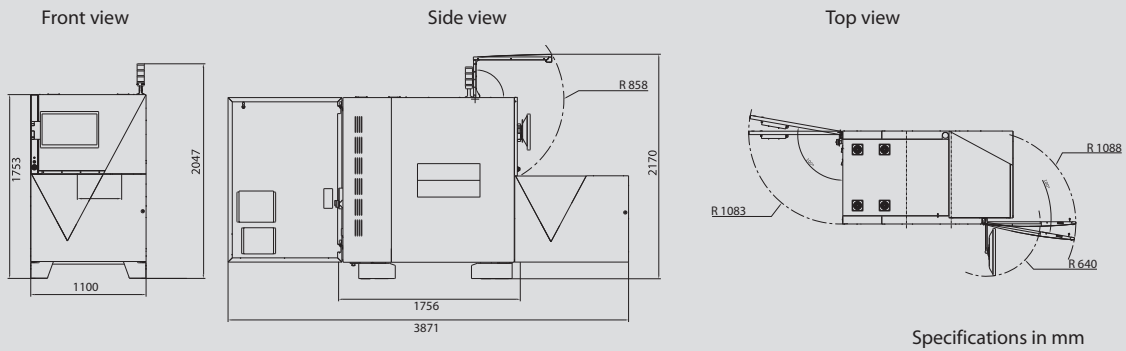
With the iS6059 Wire Bond Inspection system, Viscom offers the best inline technology and top performance for the automatic optical inspection of wire bonds. Where high throughput is a must, dual-track operations can significantly cut inspection times. The system is particularly easy to configure beyond standard specifications to meet customer-specific needs. Even large inspection objects can then be inspected safely and effectively.

The high-precision inspection guarantees reliable defect detection for ribbon, die, ball-wedge, wedge-wedge, and security bonds. The inspection scope can be customized beyond standard defects for additional applications. Damage and misplaced components are also reliably detected. The powerful Viscom inspection software performs combined inspection of wire bonds and SMD assembly. A high-resolution camera captures all bond points and wires. The inspection scope includes wire paths, dies, and component positions. It does not matter whether the connections are made of copper, aluminum, or gold, or whether they are ribbon, thick wire, or thin wire.

With Viscom's powerful SPC evaluation, numerous conclusions regarding the process can be made. As a result, defect causes are reduced to increase production quality. Remote diagnosis, worldwide maintenance and a Service hotline complete the offer.



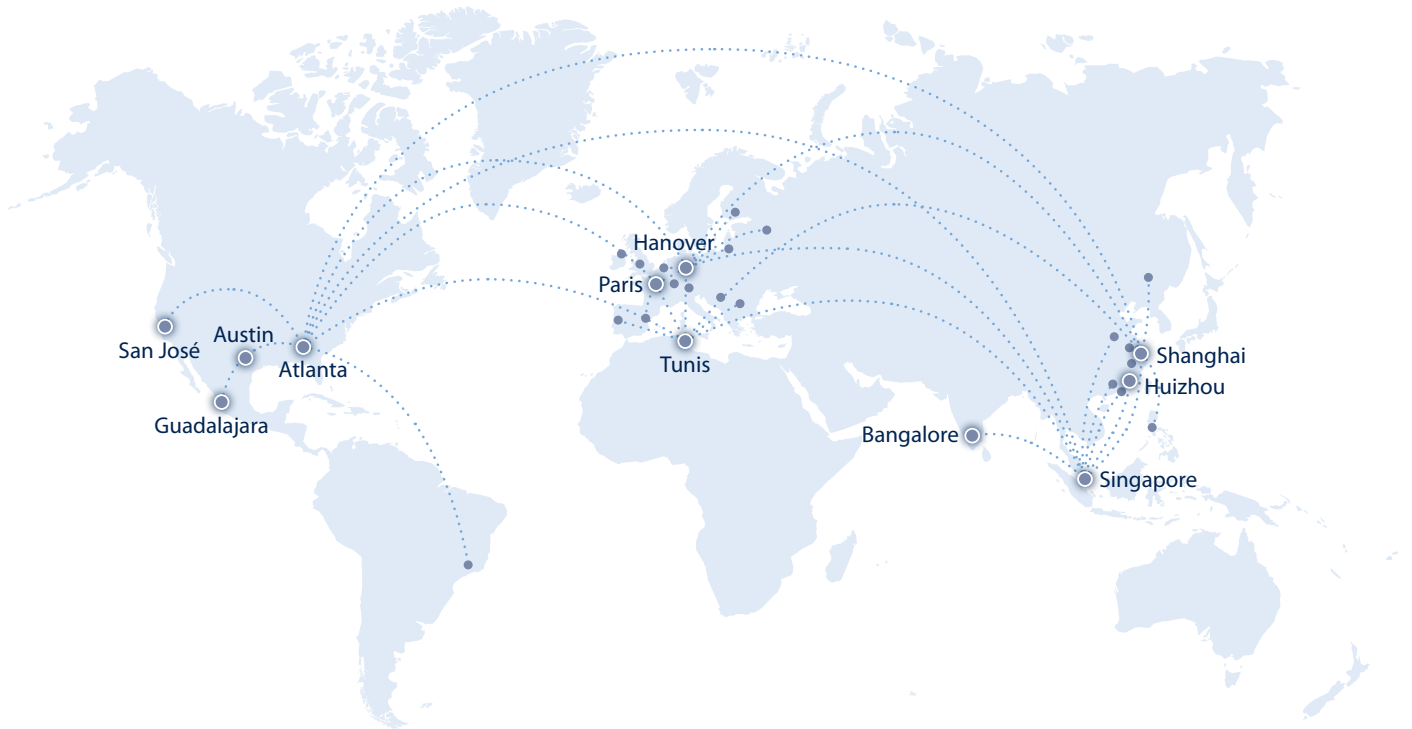
# Technical Specification iS6059 Wire Bond Inspection



		iS6059 Bond Inspection	
<b>Inspection Scope</b>		Ball bond, wedge bond, wire, die/SMD, ribbon (further inspection tasks optional)	
<b>Camera Technology*</b>		XM Bond HR-II	XM Bond 3D
	3D camera technology		
	Z-resolution:	-	0.5 µm
	Z-range	-	20 mm (0.7")
	Orthogonal camera		
<b>Resolution</b>		5 µm	4.5 µm
	Field of view	25 mm x 25 mm (0.98" x 0.98")	23 mm x 23 mm (0.9" x 0.9")
<b>Software</b>	User interface	Viscom 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>Substrate Handling</b>	Maximum substrate size	300 x 400 mm (11.8" x 15.7") (L x W)**	
	Transfer height	850 – 950 mm ± 20 mm (33.4" – 37.4" ± 0.7")	
	Substrate clamping	Vacuum or mechanical clamping	
	Transport concept	Single track / dual-track: 290 x 200 mm (11.4" x 7.8") (L x W) / dual-track options available upon request	
	Upper transport clearance	Up to 35 mm (1.3")	
<b>Other system data</b>	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	1100 mm x 1756 mm x 1753 mm (43.3" x 69.1" x 69") (W x D x H)	
	Weight	Approx. 1000 – 1080 kg (2204.6 – 2380.9 lbs)	

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

\* Other camera technology on request  
\*\* Depends on system configuration selected



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