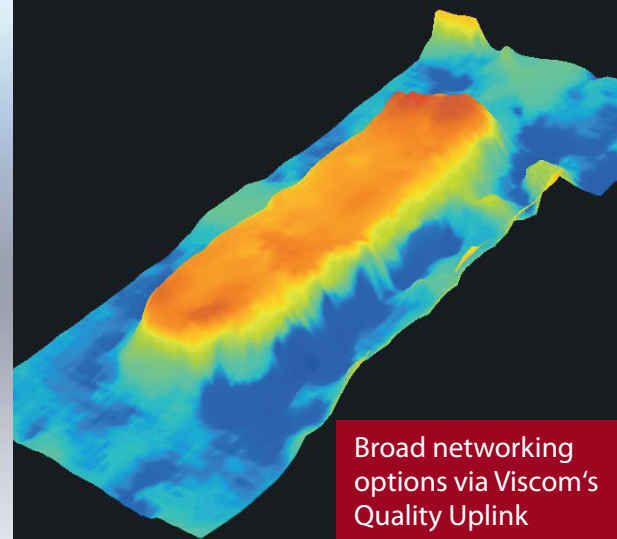




High-End SPI System for In-Line Manufacturing



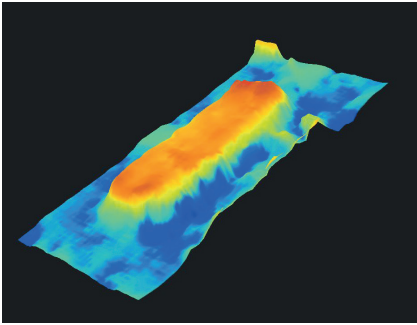
Broad networking
options via Viscom's
Quality Uplink

iS6059 SPI

Excellent technology for solder
and sinter paste inspection

3D SPI

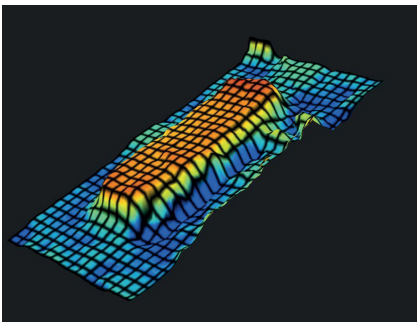
High-Throughput Paste Inspection with Maximum Accuracy



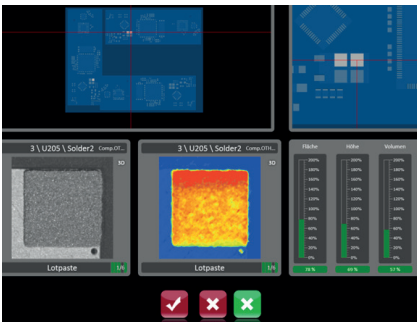
Color-assisted 3D solder paste volume calculation



Paste bridge after soldering



3D solder paste volume calculation with grid pattern



User-friendly overviews in vVision

Extremely high throughput due to FastFlow handling

Enhanced quality and speed of inspection

Four angled views for shadow-free inspection images

High reproducibility

Very easy operation: color images for verification and efficient program generation

Customer hotline and website, remote maintenance

The iS6059 SPI is a 3D SPI system that offers unbeatable advantages for economical SMT production. Key features include an inspection speed of 90 cm²/s and a field of view size of 58 mm by 58 mm. The orthogonal optical resolution is 12 µm and is combined with four angled views to deliver perfect, shadow-free inspection results – which are key for very small inspection areas. Viscom's optional FastFlow handling offers extremely high throughput rates. Assemblies are synchronously infed and outfed at high speed.

This system, configured to meet optimum cost/benefit aspects, is based on the unique and proven XM camera technology from Viscom and combines precise defect detection with the highest inspection speed. The iS6059 SPI inspects all quality criteria for solder paste deposits, including volume, shape, surface, height, offset, paste bridges and paste smearing.

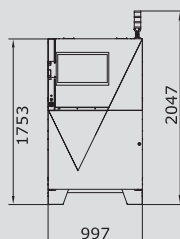
Evaluating the 3D measurement data and linking the results via Quality Uplink with the paste printer, placement system, AOI and AXI allows for effective process control and sustainable quality improvement. In this way, Viscom's 3D SPI system delivers indications of process weaknesses that can be automatically adapted, e.g. adjusting the screen cleaning cycles or correcting print displacement or placement offset.



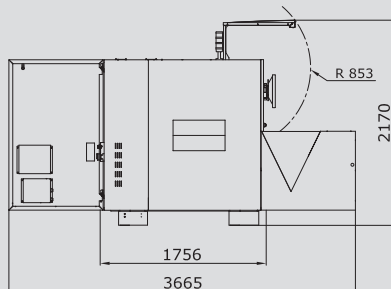
Technical Specifications

iS6059 SPI

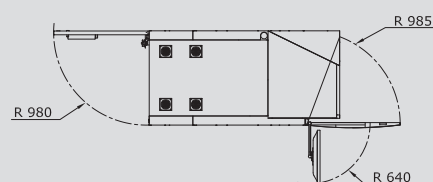
Front view



Side view



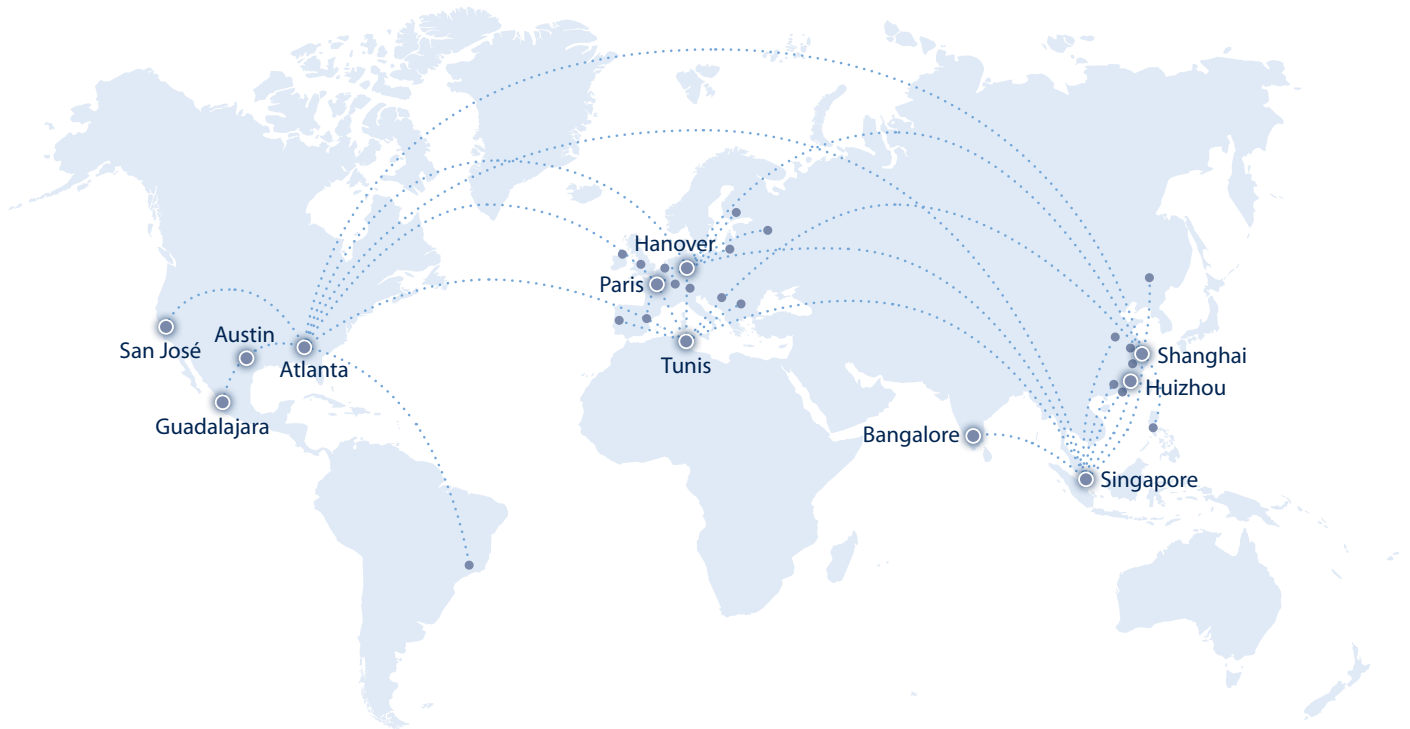
Top view



Dimensions in mm

iS6059 SPI		
Inspection scope		Solder paste deposits (stencil printing or dispensing technology, up to pad sizes for 01005 components); sinter paste, adhesives, surface, height, print displacement, smearing, shape, coplanarity, open area analysis, OCR, DMC
Camera technology		XM-SPI-II
	3D sensor technology	
	Z-resolution	0.1 μm
	Z-range	Up to 5 mm (0.1")
	Angled view cameras	
	Number of megapixel cameras	4
	Orthogonal camera	
	Resolution	12 μm
Inspection speed	Field of view	58 mm x 58 mm (2.2" x 2.2")
Inspection speed		Up to 90 cm ² /s
Software	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)
System computer	Operating system	Windows®
	Processor	Intel®Core™i9
PCB handling	PCB dimensions	508 mm x 508 mm (20" x 20"); long-board option available
	PCB support	Optional
	Transport height	850 – 950 mm $\pm$ 20 mm (33.4" – 37.4" $\pm$ 0.7")
	Width adjustment	Automatic
	Transport concept	Single-track transport system; dual-lane option available
	PCB clamping	Pneumatic
	Upper transport clearance	50 mm (1.9")
Other system data	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 – 1050 kg (2204.6 – 2314.8 lbs)

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



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