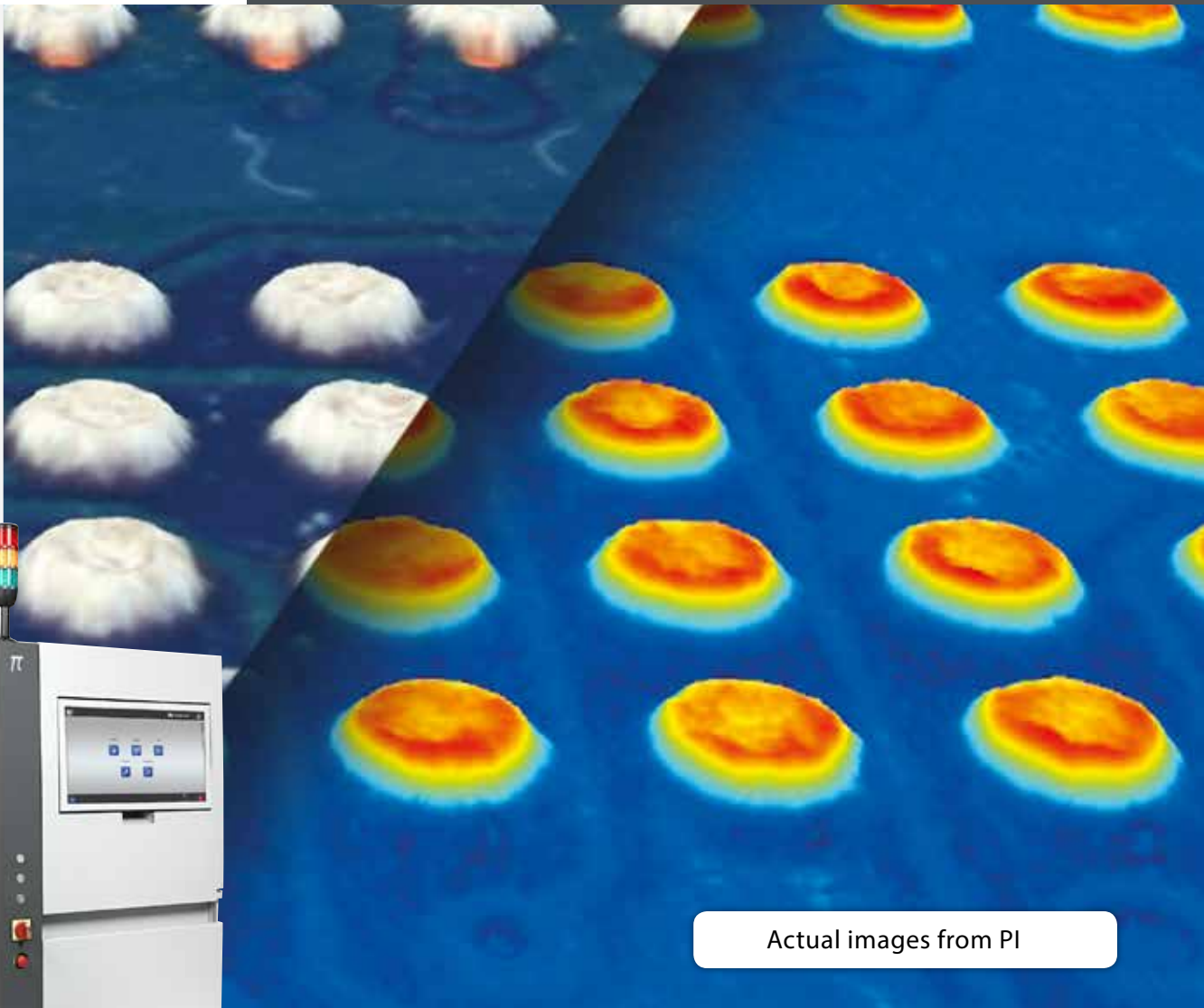




**$\pi$**   
SERIES

Industry's new choice to  
control print process

3D SPI



Actual images from PI



**Vi** TECHNOLOGY  
MYCRONIC

# Inspect with simplicity

A natural user interface accessible to anyone

PI is useable by anyone.  
Operators, not just engineers, can program the machine.  
PI's powerful capabilities are just a fingertip away.

- PI is designed to operate solely with a touchscreen icon based interface with no keyboard and no mouse.



- Anyone is up and running after just an hour's training.

- Calibration is done at a press of button with embedded geometric and radiometric calibration tools to ensure consistent performance overtime, and machine-to-machine portability.



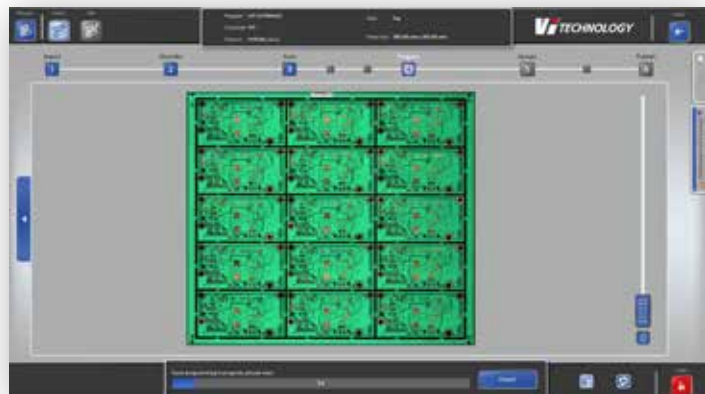


# Inspect without effort

Let the machine program itself

PI is the only SPI to program automatically.  
Auto-programming enables high quality inspection independently of  
programmer's skill level.

- Just scan a bare board, to ensure accurate measurement, and let the machine program itself.



- With auto-programming, fine tuning is no longer required. Performance is consistent, regardless of color or finish variations. Thus, PI is ideal for New Product Introduction.



- In addition to paste inspection, PI offers simultaneous glue dot inspection.

# Inspection without doubts

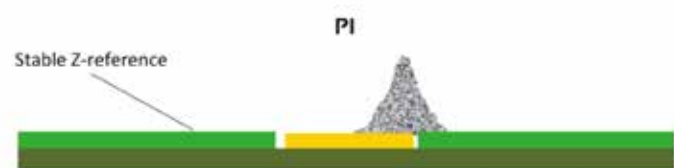
Demand accuracy, not just repeatability

PI's patented Z-referencing technology overcomes the limitation of traditional SPIs and brings unprecedented accuracy to paste volume measurement.

- Accuracy in production is about Z-referencing. All traditional SPIs set threshold (typically 40  $\mu\text{m}$ ) under which height and thus volume is no longer measured. As a result, volume is underestimated on small pads, precisely when you need to know much paste is truly deposited.



- PI's patented Z-referencing method leverages the entire textured 3D board information, not just cropped images around pads, to define stable and accurate Z-reference.



- PI's multi-frequency, multipattern Moiré combined with patented dual Z axis motion, offer unique wrap compensation to deliver accurate measurements in real production environments, with no false calls.

- High resolution textured 3D images provide unambiguous information for defect classification.





# Inspect with a purpose

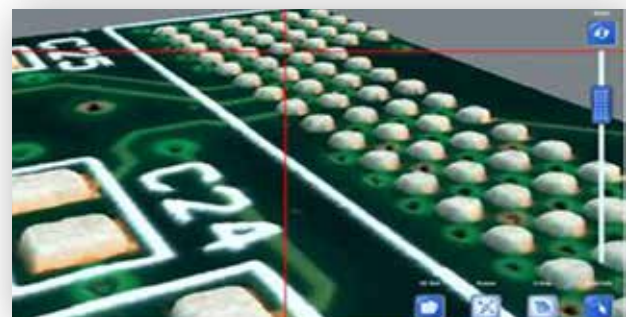
Control the print process to increase yield

PI's automatic pad grouping by AAR is just one of the many features targeted specifically at process control. Combined with SIGMA Link software suite, inspection data becomes actionable process information.

- Improve your process and set tolerances independently of products with automatic pad grouping by AAR (Area Aperture Ratio)



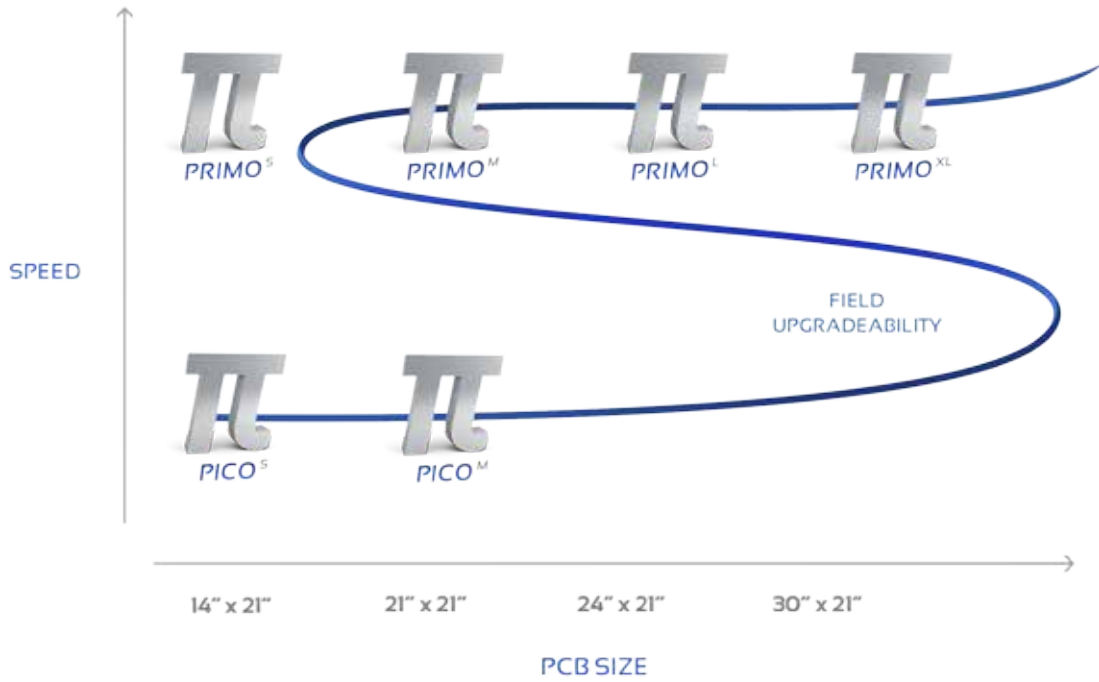
- Understand your process with an extra-large review image in textured 3D for easy diagnostic.



- Monitor your process in real-time with SIGMA Analysis - Off-line SPC - or simply with PI's embedded SPC.







## Specifications

PCB handling	PI PICO / PI PRIMO		PI PRIMO	
Minimum PCB dimensions (L x W)	50 mm x 50 mm (2 x 2 inch)			
PCB thickness	0.1 mm to 5.0 mm			
Minimum edge clearance	3 mm			
Top clearance	20 mm			
Bottom clearance	50 mm			
Conveying direction	Left to right - Right to left - Left to left - Right to right			
	S	M		XL
Maximum PCB dimensions (L x W)	350 x 533 mm (14 x 21 inch)	533 x 533 mm (21 x 21 inch)	609 x 533 mm (24 x 21 inch)	762 x 533 mm (30 x 21 inch)
Conveying height	830 mm to 930 mm (Standard) / 900 mm to 1000 mm (Option)			
Conveyor length	1000 mm (800 mm option)	1000 mm	1000 mm	1250 mm
Maximum PCB weight	4 kg			4,5 kg

Robust design  
Embedded guide  
Easy maintenance





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