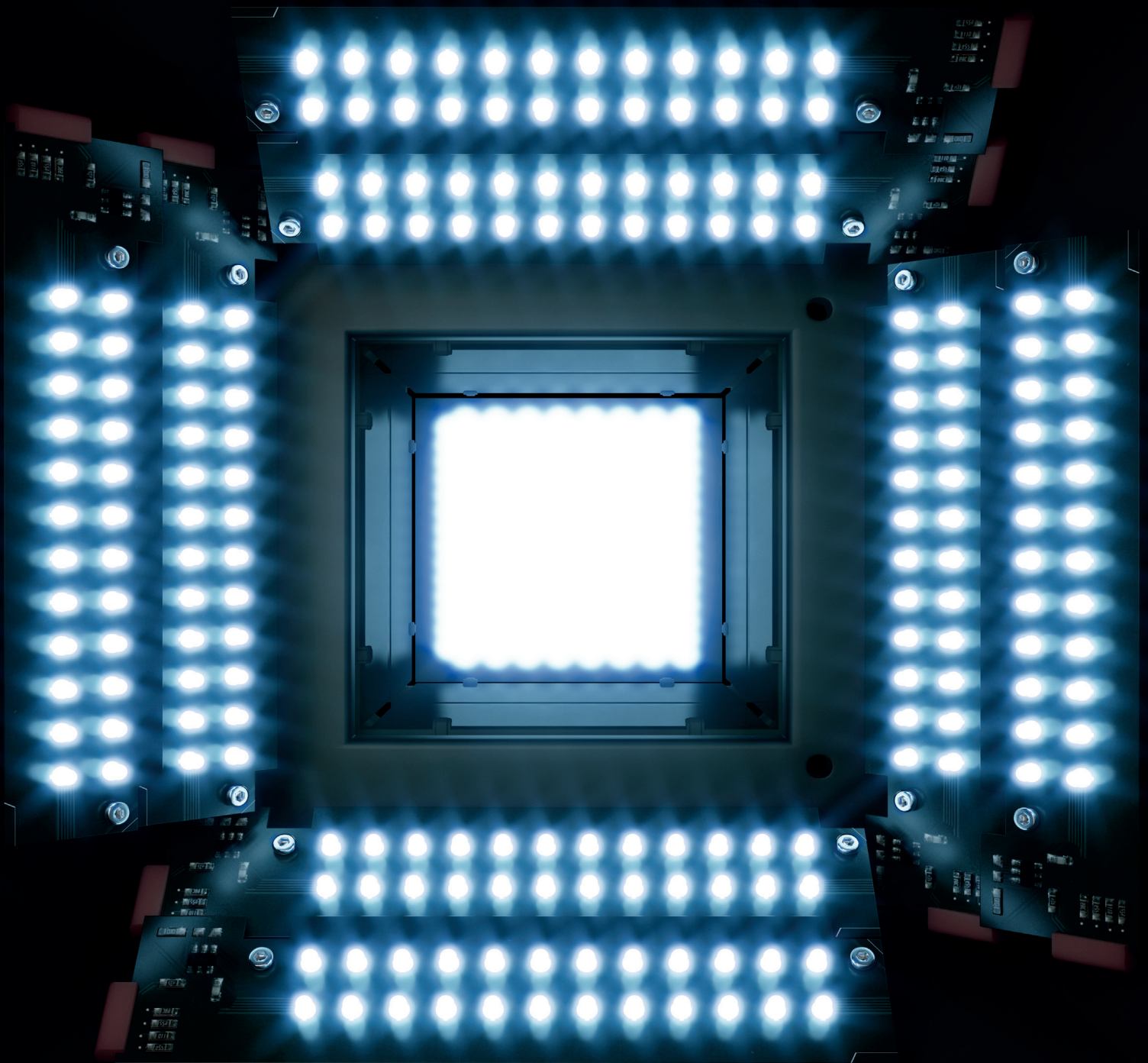


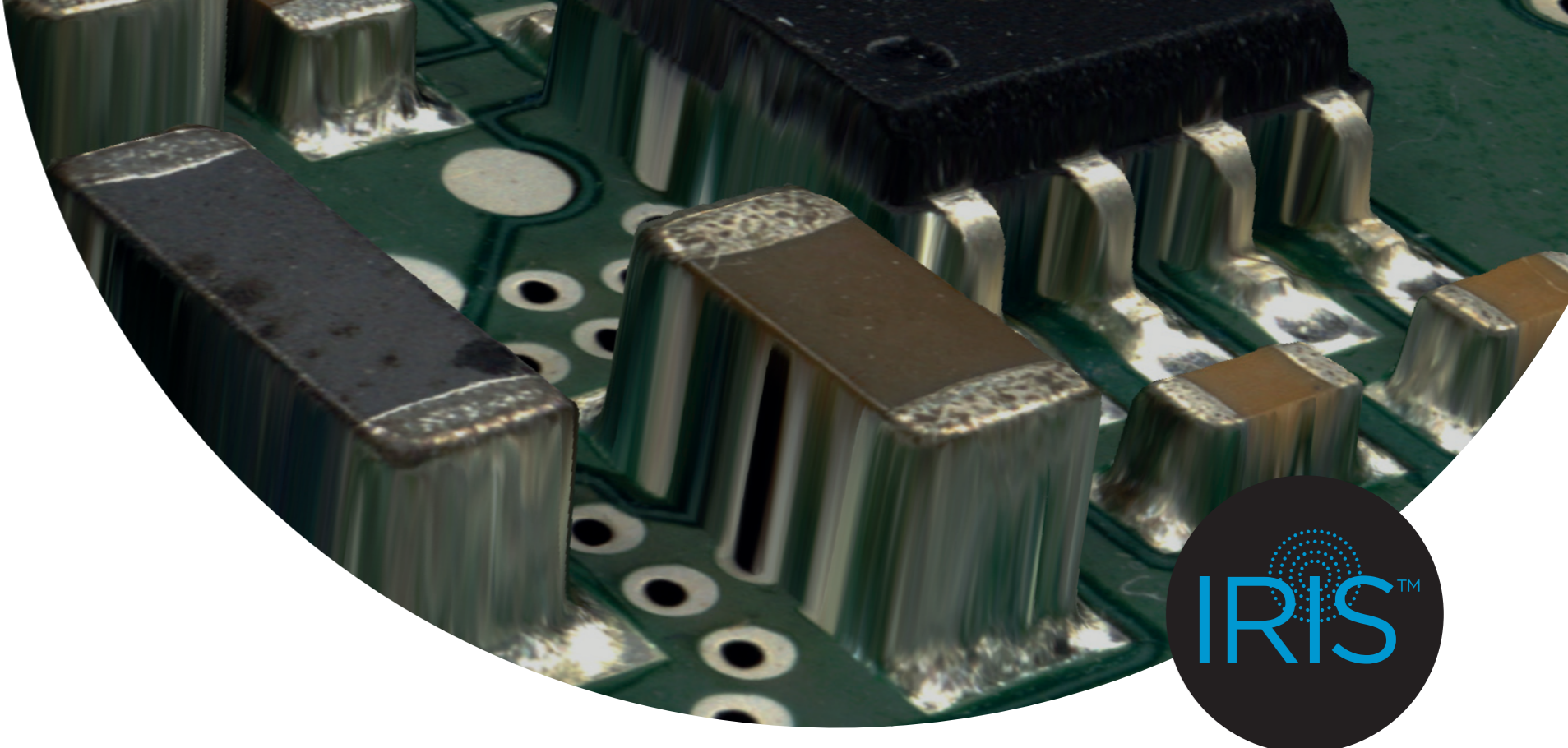
# Accelerating **high-performance inspection**

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Iris™ 3D AOI vision technology







# Iris™ 3D vision technology. Faster. Sharper. Smarter.



In the world of automotive and industrial electronics, the pace of change continues to accelerate. With smaller components. More advanced assemblies. And an unrelenting need for speed and precision. The next-generation Iris 3D vision technology represents a major step forward in the evolution of high-performance 3D AOI.

## DESIGNED FOR THE MOST DEMANDING TAKT TIMES

Thanks to a new generation of laser scanners, image sensors and computing systems, Iris enables the industry's highest quality 2D and 3D image capture at speeds up to 30% faster than previous K3D systems. All so you can capture every detail in unprecedented resolution with minimal false calls – even at the most demanding takt times.

The new Iris 3D vision technology is available as standard on all MYPro I series AOI systems, or as a performance upgrade on previous K series 2D or 3D AOI platforms. Wherever takt time is critical or the highest first pass yield is essential, Iris combines the latest advanced technologies to accelerate tomorrow's high-performance inspection applications.

## UP TO 30% FASTER CYCLE TIMES

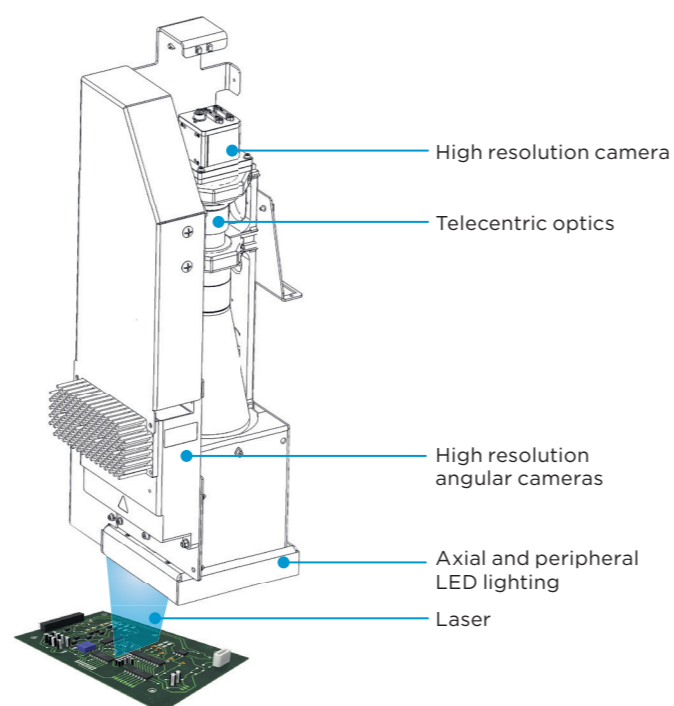
Comprehensive upgrades to scan head optics, laser, lighting and computing systems enable up to 30% faster cycle times than previous K3D systems

## SMARTER IMAGE PROCESSING

- Faster, more powerful image processing despite larger images
- New 3D reconstruction algorithms to reduce spikes

## SHARPER 2D AND 3D IMAGE QUALITY

- Cutting-edge 3D laser sensor and redesigned telecentric optics with 33% larger field of view
- Sharper 2D and 3D image thanks to 13.7µm pixel size, resulting in outstanding 3.45µm XY sub-pixel resolution
- Wider test coverage and enhanced review images for components as small as 008004/0201M.



## SUPERIOR ACCURACY AND COVERAGE

Iris 3D vision technology combines best-in-class metrology and image capture systems to support a comprehensive toolbox of ready-to-use 2D and 3D tests for all types of components, pins and connectors.

## PRECISE OPTICAL METROLOGY

High-precision metrology combining high-definition 2D texture with shadow-free 3D inspection that eliminates image cropping and warpage effects.

## COMPLETE TEST COVERAGE

Comprehensive defect coverage accurately measures component body and solder joints to identify misplaced components, tombstones, lifted leads and more.

TECHNICAL SPECIFICATIONS	
<b>3D SCANNING TECHNOLOGY</b>	
3D sensor	Shadow-proof 3D acquisition, based on laser and angular sensors
Optics	High precision telecentric lens
Field of View (XxY)	60.5x60.5mm (2.38x2.38")
Lighting types	Axial and peripheral LED with holographic diffuser
Lighting color	White
Warp compensation	±5mm warpage compensation with full Z accuracy
<b>INSPECTION PERFORMANCE</b>	
Height inspection range	From -5mm to +20mm
X, Y resolution	3.45µm (subpixel technology) / 13.7µm (native)
Z resolution	1µm constant resolution over 25mm Z range
<b>SYSTEM</b>	
Operating system	Windows 10, 64-bit

# Bringing tomorrow's electronics to life

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