



Superior performance, unparalleled Cost of Ownership

EAGLE G5

Developed on the well-known Eagle product family, the Eagle G5 is engineered to deliver unmatched speed and efficiency.

- New 2D Inspection Channel
- Up to 40% faster than previous generations
- High data rate
- Improved detection resolution ~20% smaller pixel size

2D Inspection

Detection Sensitivity	Various surface defects inspection of 0.3µm
Resolution	Multiple magnifications for optimized sensitivity
Zone Editing	Enables detection algorithm per zone for optimized sensitivity
CAD based detection	Supporting GDSII files
Multi Recipe	Enables running successive scans in one cycle with different focus, magnification, illumination, sensitivity and detection engines
Pelican (Nuisance Filtering)	New nuisance filtering ability for Yield enhancement and improved tool performance
Defect Classification / Filtering	Feature based classification
Tool Matching	Simple recipe transfer from system to system System to System results matching

3D Metrology

Bump types	Copper pillar, solder, gold bumps, micro bumps
Capabilities	Measurement of bump height, co-planarity, PR/PI thickness and via opening depth and surface-to-surface metrology
CTS – Camtek triangulation Sensor : High speed 3D scan	
Height Accuracy ¹ Height Repeatability ¹ Measurement Range	0.1µm 1% of bump height and > 0.2µm at 3σ 2-150µm
CCS - Camtek Confocal Sensor : 3D high resolution profile area mapping	
Height Accuracy ¹ Height Repeatability ¹ Layer thickness Range Height metrology range	0.05µm 0.1µm at 3σ 10-200µm 1µm - 300µm
CLIP – Camtek Light interferometer profiler	
Resolution Height Repeatability ¹ Measurement Range	0.05µm 0.2µm at 3σ 0.2 - 100µm

2D Metrology

Object types	Bump, RDL, Pad, UBM, Via
Capabilities	Measurement of diameter, width, length, placement deviations, overlay, die shift
Accuracy	0.1µm
Repeatability	0.2µm at 3σ

Accuracy and repeatability on VLSI step target