UltraVision Specification

Features	Benchtop	Inline
Type of Camera	5MP colour CCD (Optional 4MP large format sensor available to match existing systems)	
Lens	Telecentric lens system	
Camera orientation	Top down	
Camera Interface	Gig-e 1000Mb/s (4MP option Firewire 1394b 800Mb/s)	
Maximum board size	475mm(W) x 450mm(L)	475mm(W) x 400mm(L)
Resolution/pixel size	11.7um	
Cabable of inspecting	01005 package and 0.3mm pitch	
Field of View	23.5mm x 23.5mm (4MP option 22mm x 22mm)	
Linear drives	Micro stepping motors for high accuracy and repeatability	
Movement	Camera moves in all directions suspended from a gantry	
Fiducials	All systems are capable of 3 point fiducial correction allowing for board positional error, rotation and stretch or shrinkage	
Board clearance	Top = 40mm Bottom = 40mm	
Board handling method	Fixed side and front arms, sliding back arms	Conveyor with 4mm clamping at sides
Lighting	Multi-coloured concentric LED light rings	
Laser Profiling	Programmable 3D profiling of component surfaces and legs, resolution 12µm	
Internal Printer	Tally-roll printer for inspection fault summary	
Software modules	1st off verify of BOM, Manual comparator inspection, Full automatic inspection, Offline Rework and Programming, Reports and statistical analysis	
Security levels	Supports 3 user-levels to limit operator access to advanced features where required	
Barcodes	All common formats can be read through camera for traceability	
Operating Temperatures	20°C to 40°C	

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