

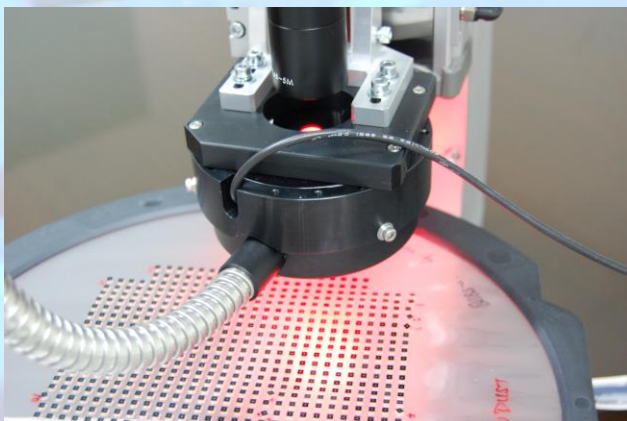
Overview

AV9000- Micro-optics Inspection machine is a high-speed and high accuracy cell phone lens inspection machine.

The combination of innovative software, optical and mechanical module to eliminate underkill and overkill challenges that faced by human inspector. Special optical had help to reduce the reflection issue on the undulating lens contour.

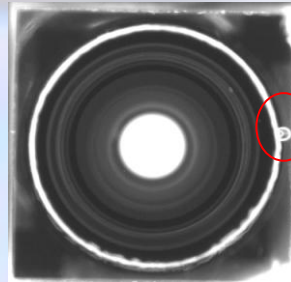
Feature

- 1. Individual defect specification can be specified.**
- 2. Defect images log. Up to 500 images can be saved.**
- 3. Consecutive failure feature are user settable.**
- 4. Die size 1.5 to 6 mm, package height up to 12mm.**
- 5. Pixel Resolution 3.5μm**
- 6. Software able to program**

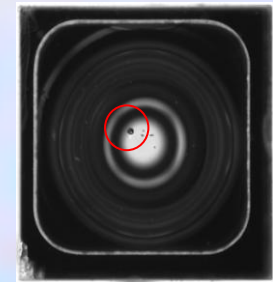


Inspection Criteria:

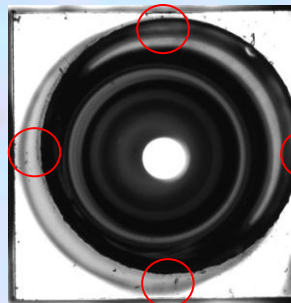
Bubble



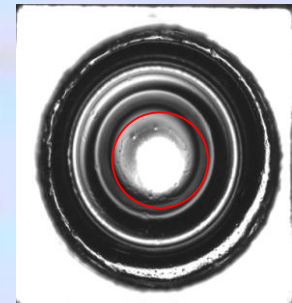
Void



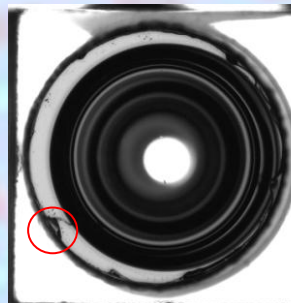
Offset



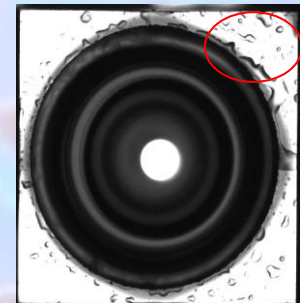
Stain



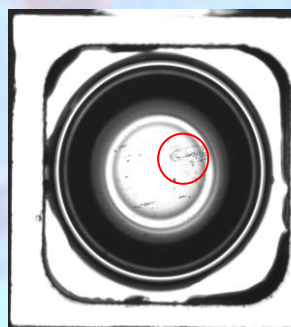
Chipping



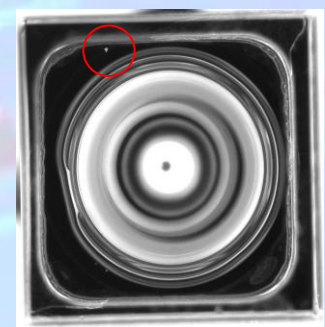
Adhesive stain



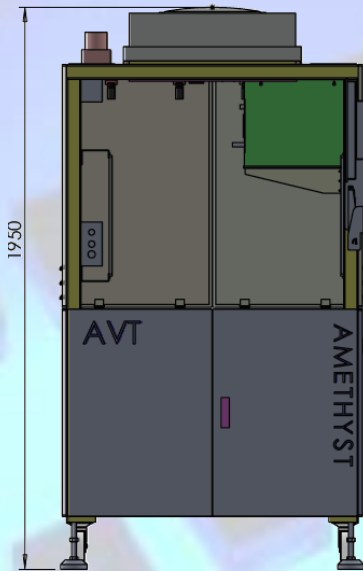
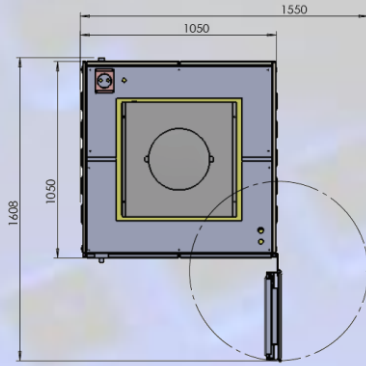
Scratch



Saw dust



SPECIFICATIONS



Options

Custom Lens/Working Distance
PC or Rackmount Enclosure
Special Adaptations

AVT offers a range of options to meet your need. Contact our office for details.

General	
Machine Dimension (W X D X H)	1800mm x 1800mm x 2200mm
Machine Weight	~ 350 kg
Utilities Requirements	200 ~ 240 VAC, 50/60 Hz, 3KW
Compressed Air	6 Bar
Wafer Size	8"
Vibration criteria	VC-E (0.003mm/s)

Camera system & Lighting	
Camera resolution	4 Mega Pixels
Camera configuration	Monochrome
Lighting	Multi-Channel, Multi Colour

Model	Amethyst C1x-4M	Amethyst C1.5x-4M	Amethyst C2x-4M
Optics Lens	1x	1.5x	2x
Magnification			
Field of View (mm)	11.3 x 11.3	7.5 x 7.5	5.65 x 5.65
Resolution (µm/pix)	5.5	3.7	2.7
Accuracy (2D) (µm)	11.0	7.4	5.5

System Features	
Door open detection	Yes
Failure Mapping	Yes
Defect Logging (Incl Image)	Yes
Barcode Scanning	Yes
2D Matrix Scanning	Optional – need sample
OCR	Optional – need sample
Uptime	> 95%
Mean Time Between Assist	< 2 hrs
Mean Time Between Failure	> 168 hrs
Operating System	Windows 7 or latest

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WAFER SORTING MACHINE