



Model 212: Economical Large Area Mask Aligner for R&D

Handles substrates up to 12" x 12"

Lower cost R&D tool for large area substrates

Verstile tool that can accomodate smaller substrates and masks - easily upgraded for larger substrates

Used for packaging, displays, OLED, and semiconductor R&D

Featuring the same specifications as the OAI Model 200 Tabletop Mask Aligner

The Model 212 Large Area Mask Aligner is a cost-effective, high performance mask aligner that has been engineered with OAI's industry provent components that have made OAI a leader in the photolithography equipment industry. The Model 212 is a benchtop mask aligner that requires minimal cleanroom space and offers an economic alternative for R&D for large area substrates, panel level packaging, LCD, Thin Film Transistors, and OLED. Utilizing OAI's innovative vacuum chuck leveling system, large substrates (up to 12" x 12") are leveled quickly and gently for exceptional photo mask alignment and uniform contact during exposure. The system is capable of one micron resolution and alignment. The alignment module features mask insert sets and quick-change wafer chucks that facilitate the use of a variety of substrates and masks without requiring special tools. The Model 212 Large Area Mask Aligner features the proven OAI UV light source which provides collimated UV light in Near, Mid, and Deep UV using either LED or lamps ranging in power from 200 to 2,000W. Dual-sensor optical feedback loops are linked to the constant intensity controller to provide control of exposure intensity within $\pm 2\%$ of the desired intensity.



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Model 212 Large Area Mask Aligner: Specifications

Substrate Size		Up to 12" x 12" (square or round)
Substrate State	XY Travel	±10mm
	Z Travel	5mm
	Micrometer Graduations	.001"; .0001" OR .01mm; .001mm
	Rotation	±3.5°
Mask Size		Up to 14" x 14"
Lightsource	Beam Size	Up to 12" square
	Lamp Power	1,000 and 2,000W NUV (Hg Lamp Only)
Shutter Timer	Timer	0.1 to 99.0 seconds at 0.1 second increments OR
		1.0 to 999 seconds at 1.0 second increments
Facilities	Electrical	110 or 220 vac (Or other power supply requirements and country)
	Vacuum	20-28"Hg
	Air and N ₂	CDA at 60 PSI, N ₂ at 20 PSI
	Exhaust	0.35" to 0.5" water
Dimensions	Height	42" (1067mm)
	Width	60" (1524mm)
	Depth	53" (1346mm)

**Check Out the Solutions
that OAI Offers**



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