



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

Handles substrates up to 12' x 12' or 300mm x 300mm

A lower cost research and development tool for large area substrates

A versatile tool that can accommodate smaller substrates and masks - easily upgraded for larger substrates

Used for Packaging, Displays, OLED, Semiconductor Wafer 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 proven components that have made OAI a leader in the photolithography equipment industry. The Model 212 is a bench top mask aligner that requires minimal cleanroom space, and offers an economic alternative for R&D for large area substrates, LCD, Thin Film Transistors, panel level packaging, and OLED. Utilizing OAI's innovative vacuum chuck leveling system, large substrates (up to 12'x12' or 300mm x 300mm) 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 or Deep UV using lamps ranging in power from 200 to 2000 watts. 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.

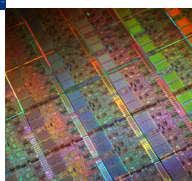
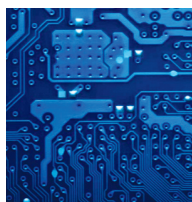
Small Footprint

Very affordable

Precision Alignment

Highly collimated, uniform UV light

Easily accommodates a wide variety of large substrates and masks





Specifications: OAI Model 212 Large Area Mask Aligner

Substrate Size		Up to 12" square or 300mm
Substrate Stage	X, Y 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	200, 350, 500, 1,000, and 2,000 Watt NUV 500, 1,000 and 2,000 Watt DUV
Shutter Timer	Timer	0.1 to 99.0 sec. at 0.1 second increments or 1.0 to 999 sec. at 1.0 second increments
Facilities	Electrical	110 or 220 vac (or other according to Power Supply requirements and Country)
	Vacuum	20 - 28" Hg.
	Air and N ₂	CDA at 60 PSI and N ₂ at 20 PSI
	Exhaust	0.35" to 0.5" Water
Dimensions	Height	42" (1067mm)
	Width	60" (1524mm)
	Depth	53" (1346mm)

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