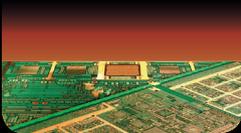


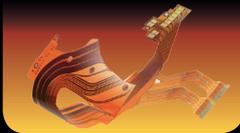
ADIX SA-SM

for Soldermask (PSR)

PCB



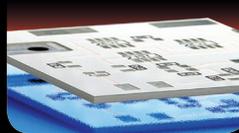
FPCB / Flex



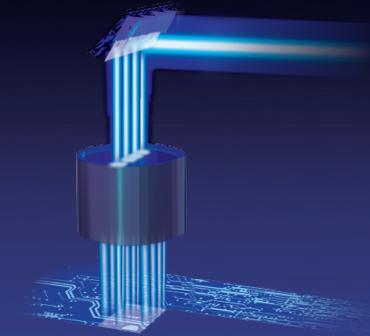
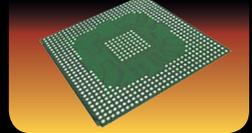
Rigid-Flex



IMS PCB



IC Substrate



ALDS-Power4™
High Power LEDs
High Resolution DMD



4 LEDs per Photo Head : 365/380/395/405nm

Depth of Focus: $\pm 200\mu\text{m}$

Higher Precision

Reliability

Productivity

Best Solution for Digital Soldermask Printing

Resolution

50 μm | 2mil
Dam

Registration

$\pm 8\mu\text{m}$ | $\pm 0.3\text{mil}$
Image to Panel

Throughput

30% Higher
Productivity

High Savings

-80% Cost
of Ownership

ADIX SA-SM for Solder Mask (PSR)



ALDS-Power4™
High Power LEDs
High Resolution DMD

From 1 to 5 ALDS-Power4™ Photo Heads - Upgradable on site

Enhanced 4 LEDs Photo Heads for Higher Productivity and Printing Quality

High Accuracy Registration

Print on All Types of Solder & Photo Resists

Lower Cost of Ownership

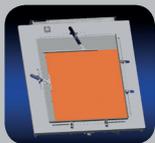
Fully Intuitive & Friendly HMI

ADIX SA-SM Specifications

APPLICATIONS	PCB • FPCB / Flex • Rigid-Flex • IMS PCB • IC Substrate		
Process	Soldermask (PSR)		
Imaging Resist Materials	All Solder & Conventional Dry Film Resists		
Resist Sensitivity	From 10 to 1,000mJ/cm ² and above		
Exposure Area	From 228 x 254mm up to 610 x 762mm • From 9"x10" up to 24"x30"		
Panel Thickness	0,04 to 6mm	•	1,6 to 236mils
RESOLUTION	50/50µm ⁽¹⁾	•	2/2mils (L/S) ⁽¹⁾
	50µm ⁽¹⁾	•	2mils (Dam) ⁽¹⁾
Light Engine	ALDS-Power4™ Data preprocessing in hidden time + High UV Power with 4 LEDs per Head		
Imaging Heads	From 1 to 5 Heads - Upgradable on site		
Edge Roughness	±2.5µm	•	±0,09mil
Depth of Focus	±200µm	•	±8mils
Autofocus	±8mm	•	±315mils
Exposure Spectrum	4 LEDs wavelengths per Photo Head: 365/380/395/405nm		
ALIGNMENT	±8µm	•	±0.3mil (Image to Panel Registration)
	±12µm	•	±0.5mil (Side to Side Registration)
CCD Cameras	2 Cameras - for Outer Layers (Alignment on 4 Holes)		
	- for Soldermask Registration (Alignment on 4 Copper Targets)		
	3 Cameras for Inner Layers (Alignment on 3 Fiducials)		
Method	Real Time Scaling & Partitioning with all kinds of fiducials		
THROUGHPUT			
Exposure Time	65s with 300mJ/cm ² resist for 457 x 610mm (18"x 24") image size and with 5 Heads ⁽²⁾		
ALDS-Power4™	Data preprocessing in hidden time + High UV Power with 4 LEDs per Photo Head		
SOFTWARE	ALTIX Direct Imaging Suite™ with 22" touch screen		
Data Input	Extended Gerber, ODB++ (others upon request)		
Languages	English, Simplified & Traditional Chinese, Korean, German, French...		
HIGH YIELD			
Air Cleanliness	Hepa filter class 100		
Features	Stainless steel (Frames & Covers)		
GENERAL UTILITIES			
Power Supply	220/400/480V	3 Phases	50/60Hz
Power Consumption	4kW		
Air Supply	6~7 bars	1.5m ³ /min	
Water Supply	Water pressure 3~5 bars	Flow rate: 23l/min @ 12°C or 33l/min @ 14°C	
Machine Weight	4,600kg	•	10,141lbs
Dimensions	2,870mm (L) x 1,750mm (W) x 1,870mm (H) • 113" (L) x 69" (W) x 74" (H)		

(1) depending on photoresist, surface preparation & DES process • (2) estimated time given as reference but can fluctuate according to the process adjustments

Unique Features



Unique Panel Holding

Automated clamping system & vacuum table for holding all panels thicknesses and counteract warp & twist



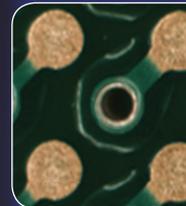
Highest Image Quality

±2mm high dynamic autofocus and up to ±100µm depth of focus to overcome uneven topography surfaces



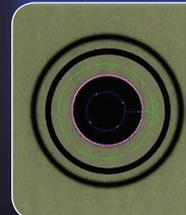
Higher Resolution: 50µm dam

Use multi-wavelengths UV-LED for best resolution and higher polymerization efficiency on all types & colors of solder resists



Higher Registration: ±8µm

Real time scaling and partitioning to reach lowest clearance at any points on the panel area



Side to Side Registration: ±12µm

Highest side-to-side registration on all area of the panels thanks to its unique way of registration



Higher Productivity: +30%

ALDS™ & 4 UV LED wavelengths 365nm/380nm/395nm/405nm: for the highest printing efficiency



Smart Automation

Fully automated systems and customized solutions for high mix, small, medium & mass production



ALTIX

Manufacturing, Sales & Service:

Europe: Altix France – HQ

Email: central@altix.fr

Taiwan: Altix Asia

Email: central@altixasia.com

Direct Sales & Service:

Asia: Altix China

Shanghai, Kunshan,

Zhuhai Offices

Email: central@altix.cn

North America:

Altix NA, Inc.

West Coast, Middle West

and East Coast

Email: central@altix.us

Imaging with us!



www.altix.fr