

內層 UV LED 自動曝光機

c sun

INNER LAYER AUTO UV LED EXPOSURE SYSTEM

UVE-A270/L



UVE-A270

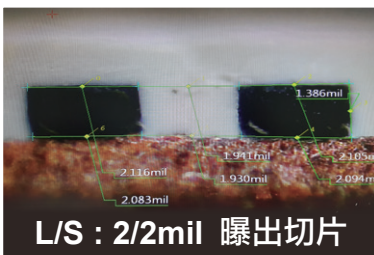


台灣精品 2020
TAIWAN EXCELLENCE

UVE-A270L
大排板 乾濕膜共用



UV LED光源模組



L/S : 2/2mil 曝出切片



燈源板內建溫度監測

機台特點Characteristics

- 能透過通訊模式補償監控LED亮度品質
Using communication mode compensated monitoring LED brightness quality.
- LED光源模組化設計，方便保養更換，快速經濟
LED light source modular design that easy maintenance and replacement.
- UV LED二次光學，低光角設計
UV LED secondary optical design, small angle light design.
- 能量自動校正與補償，均勻度可自動校正至90%以上
Automatic energy calibration and compensation, uniformity can automatic calibration to above 90%
- 多波段透過混波達到最佳解析，線寬線距可達50/50 μ m
Through multi-wavelength mixed achieves the best resolution, L/S=50/50 μ m
- 產速可達 3.5~4片/分鐘
Throughput: 3.5~4 pcs/min
- 對位精度 $3\sigma \leq 10\mu$ m
Alignment accuracy: $3\sigma \leq 10\mu$ m

Leading in Thermal and UV Light Processing Equipment

適用範圍 Panel Dimension	製程板厚度：0.05 ~2 mm (0.002"~0.08") UVE-A270 製程板尺寸： 254 x 304.8 mm ~ 558.8 x 635 mm UVE-A270 底片尺寸： 609.6 x 685.8mm	Panel thickness: 0.05 ~2 mm (0.002"~0.08") UVE-A270 Panel size: 254 x 304.8 mm ~ 558.8 x 635 mm (10"x12"~22"x25") UVE-A270 Film size: 609.6 x 685.8mm (24" x 27")
	UVE-A270L 製程板尺寸： 標準：254 x 304.8 mm ~ 609.6 x 762 mm 加大：254 x 304.8 mm ~ 622.3 x 812.8 mm UVE-A270L 底片尺寸： 標準：660.4 x 812.8mm 加大：660.4 x 863.6mm	UVE-A270L Panel size: 254 x 304.8 mm ~ 609.6 x 762 mm (10"x12"~24"x30", Standard) 254 x 304.8 mm ~ 622.3 x 812.8 mm (10"x12"~24.5"x32", Extra) UVE-A270L Film size: 660.4 x 812.8mm (26" x 32", Standard) 660.4 x 863.6mm (26" x 34", Extra)
光源系統 UV System	曝光光源：UV LED 平行半角：6° 均勻度：≥90% ((Min/Max) x 100%) 平均強度：50 mW/cm ² (多波段，365nm主波) 冷卻方式：水冷	Light source: UV LED Collimation Half Angle (CHA): 6° Uniformity: ≥90% ((Min/Max) x 100%) Average Intensity: 50mW/cm ² (Multi-wavelength, with 365nm primary) Cooling System: Water Cooling
曝光方式 Exposure Method	雙面同時曝光 玻璃 vs. 玻璃 UVE-A270 有效曝光區域： 558.8 x 635mm (22"x25")	Double sided exposure Glass vs. Glass UVE-A270 Exposure area: 558.8 x 635mm (22"x25")
	UVE-A270L 有效曝光區域： 標準：609.6 x 762mm (24"x30") 加大：622.3 x 812.8mm (24.5"x32")	UVE-A270L Exposure area: 609.6 x 762mm (24"x30", Standard) 622.3 x 812.8mm (24.5"x32", Extra)
控制系統 System Control Features	PC + PLC + 大型人機介面顯示	PC + PLC with LCD touch screen
對位系統 Alignment System	PCB靠操作側中間對位 對位精度3σ≤10μm內(不含底片漲縮) CCD數量： 4CCD對位 (可選2CCD對角對位)	PCB rely on the middle of OP side alignment Alignment accuracy 3σ≤10μm (Excluding film sizing) CCD quantity： 4CCD alignment (2CCD selectable)
操作方式 Operation Mode	全自動	Fully automatic
冷卻系統 Cooling System	曝光室：強制氣冷式 燈源冰水系統：內部循環水40L 冰水機入水管徑：1" x 2 冷排排水管徑：3/4" x 1	Exposure chamber： Forced Air, Draw air through HEPA and blow in the exposure chamber. Cooling Water system： Internal circulation 40L Water Chiller Inlet/Outlet: 1" x 2 Evaporator Exhaust: 3/4" x 1
產能 Capacity	3.5~4片/分鐘(不含底片清潔時間)	3.5~4 pcs/min(Excluding film cleaning time)
環境要求 Clean Room	室溫：22°C±2°C 濕度：55%±5% 無塵室需求：Class 1000 at 0.5μm	Temperature: 22°C±2°C Humidity: 55%±5% RH Clean room: Class 1000 at 0.5μm
機台尺寸 Dimension (mm)	機台外觀使用白鐵 UVE-A270：W2936 × D2605 × H2220 UVE-A270L: W3540 × D2750 × H2305 水冷附冰水機：W518 × D506 × H1028	Machine exterior uses stainless steel UVE-A270：W2936 × D2605 × H2220 UVE-A270L: W3540 × D2750 × H2305 Cooling equipment： W518 × D506 × H1028
公用設備 Utilities	氣壓源：> 6 kgf/cm ² ；管徑Ø 12mm UVE-A270 電力： AC380V 3φ 50/60HZ 30A 待機 10.2KVA (14KVA 瞬間)	Compressed air： > 6 kgf/cm ² ；Inlet Tube Ø12mm UVE-A270 Power： AC380V 3φ 50/60HZ 30A Standby 10.2KVA (14KVA instantly)
	UVE-A270L 電力： AC380V 3φ 50/60HZ 35A 待機 9.2KVA (14 KVA 瞬間)	UVE-A270L Power： AC380V 3φ 50/60HZ 35A Standby 9.2KVA (14 KVA instantly)
選配 Optional	UVE-A270： 工業4.0連線功能，依照雙方簽核通訊規格書執行 UVE-A270L： 工業4.0連線功能，依照雙方簽核通訊規格書執行 上櫃框為抽拉框結構	UVE-A270： Industry 4.0 connection function, according to the signing of the communication specifications by both parties UVE-A270L： Industry 4.0 connection function, according to the signing of the communication specifications by both parties The upper frame is drawing frame structure