

內層 UV LED 自動曝光機

CSUN

INNER LAYER AUTO UV LED EXPOSURE SYSTEM

UVE-A270H/LH



UVE-A270LH

大排板 乾濕膜共用



UVE-A270H



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 >4片/分鐘
Throughput: >4 pcs/min
- 對位精度 $3\sigma \leq 10\mu$ m
Alignment accuracy: $3\sigma \leq 10\mu$ m



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Leading in Thermal and UV Light Processing Equipment



UVE-A270H/LH

適用範圍 Panel Dimension	製程板厚度: 0.05 ~ 2 mm (0.002" ~ 0.08") UVE-A270H 製程板尺寸: 254 x 304.8 mm ~ 635x 635 mm UVE-A270H 底片尺寸: 685.8 x 685.8mm UVE-A270LH 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-A270LH 底片尺寸: 標準: 660.4 x 812.8mm 加大: 660.4 x 863.6mm	Panel thickness: 0.05 ~ 2 mm (0.002" ~ 0.08") UVE-A270H Panel size: 254 x 304.8 mm ~ 635x 635 mm (10" x 12" ~ 25" x 25") UVE-A270H Film size: 685.8 x 685.8mm (27" x 27") UVE-A270LH Panel size: 254 x 304.8 mm ~ 609.6 x 762 mm (10" x 12" ~ 24" x 30" , Standard) 254 x 304.8 mm ~ 622.3 x 812.8 mm (10" x 12" ~ 24.5" x 32" , Extra) UVE-A270LH 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-A270H 有效曝光區域: 635 x 635mm (25" x 25") UVE-A270LH 有效曝光區域: 標準: 609.6 x 762mm (24" x 30") 加大: 622.3 x 812.8mm (24.5" x 32")	Double sided exposure Glass vs. Glass UVE-A270H Exposure area: 635 x 635mm (25" x 25") UVE-A270LH Exposure area: 609.6 x 762mm (24" x 30" , Standard) 622.3 x 812.8mm (24.5" x 32" , 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-A270H: W3080 × D2950 × H2330 UVE-A270LH: W3780 × D2990 × H2370 水冷附冰水機: W518 × D506 × H1028	Machine exterior uses stainless steel UVE-A270H: W3080 × D2950 × H2330 UVE-A270LH: W3780 × D2990 × H2370 Cooling equipment: W518 × D506 × H1028
公用設備 Utilities	氣壓源: > 6 kgf/cm ² ; 管徑 Ø 12mm UVE-A270H 電力: AC380V 3φ 50/60HZ 50A 待機 12.8KVA (17.8KVA 瞬間) UVE-A270LH 電力: AC380V 3φ 50/60HZ 39A 待機 12.8KVA (17.8KVA 瞬間)	Compressed air: > 6 kgf/cm ² ; Inlet Tube Ø12mm UVE-A270H Power: AC380V 3φ 50/60HZ 50A Standby 12.8KVA (17.8KVA instantly) UVE-A270LH Power: AC380V 3φ 50/60HZ 39A Standby 12.8KVA (17.8KVA instantly)
選配 Optional	工業 4.0 連線功能, 依照雙方簽核通訊規格書執行 上檯框為抽拉框結構 自動清潔底片功能	Industry 4.0 connection function, according to the signing of the communication specifications by both parties The upper frame is drawing frame structure Automatic cleaning film module

Due to C SUN continuing efforts to improve their systems, these specifications are subject to change without notice.
 受長期研發需要, 本公司保有規格修改之權利, 恕不另行通知

DM2023Q1-000-TW

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