

# 內層自動曝光機

**c sun**

INNER LAYER AUTO UV EXPOSURE SYSTEM



## UVE-A250

內層自動**散射光**曝光機

Inner Layer Auto Scattered UV Exposure System



## UVE-A260

內層自動**平行光**曝光機

Inner Layer Auto Collimated UV Exposure System

### 機台特點

- 高產速：機械動作時間 8 秒
- 高精度：檯面對位精度  $3\sigma < 10\mu\text{m}$
- 高解析：平行光線路解析 2mil / 2mil 保證
- 全機 Class 1000 無塵等級
- 入出料傳動磁力環設計無產塵疑慮
- 高剛性底座強化機台穩定性
- Pass Line 高度 950~1030 mm 符合無塵需求
- 移動式視覺與背光模組提高最大板邊利用率
- 新型對位演算法，保證均分底片誤差
- 曝光室環境控制系統有效增加 A/W 穩定度
- 線性馬達移載系統提高無塵度、精度、速度

Leading in Thermal and UV Light Processing Equipment



## UVE-A250 散射光 Scattered

## UVE-A260 平行光 Collimated

<b>適用範圍</b> Panel Dimension	<b>Panel sizes</b> : 254 × 304.8mm ~ 558.8 × 635mm ( 10"×12"~22" × 25" ) <b>Thickness</b> : 0.05mm ~ 2mm ( 0.002" x 0.08" ) <b>Artwork dimensions</b> : 609.6×685.8mm ( 24" × 27" )	
<b>光源系統</b> UV System	<b>Light source</b> : 6KW× 2 Metal halide lamp <b>Uniformity</b> : ≥ 85 % ( Min/Max × 100%) <b>Intensity</b> : ≥ 50mw/cm <sup>2</sup> @365μm (on the surface of glass)	<b>Light source</b> : Collimated 5KW× 2 mercury-xenon Short arc lamp <b>Collimated half angle</b> : ≤ 1.2° <b>Collimated angle</b> : ≤ 1.6° <b>Uniformity</b> : ≥ 90 % ( Min/Max × 100%) <b>Intensity</b> : ≥ 24mw/cm <sup>2</sup> (on the surface of glass)
<b>輸送系統</b> Panel Handling System	<b>Infeed/outfeed</b> : SUS roller conveying <b>Pass line</b> : 950 mm ~ 1030 mm from the floor <b>In feed panel pre-alignment</b> : The panel stuck on the front and lateral side to set position. (Servo motor drive lateral side mechanism) <b>Panel transfer</b> : Use Linear motor <b>Panel vacuum attachment</b> : Vacuum cup	<b>Infeed/outfeed</b> : SUS roller conveying <b>Pass line</b> : 950 mm ~ 1030 mm from the floor <b>In feed panel pre-alignment</b> : The panel stuck on the front and lateral side to set position.(Servo motor drive lateral side mechanism) <b>Panel transfer</b> : Use Linear motor <b>Panel vacuum attachment</b> : Vacuum cup
<b>曝光方式</b> Exposure Method	Double side exposure Vacuum contact method	
<b>控制系統</b> System Control Features	<b>Control</b> : PLC+PC with LCD touch screen <b>Exposure control</b> : Build-in precision UV energy integrator <b>Lamp power control</b> : Precision DC/AC converter with wattage control <b>Lamp monitoring</b> : Build-in voltage , current , power , and UV intensity sensors <b>Trouble shooting</b> : On-screen trouble shooting information	
<b>對位系統</b> Alignment System	<b>Alignment method</b> : 4 CCD alignment system <b>Artwork attachment</b> : Vacuum attached to upper/lower frame glass(> -650mmHg) <b>Vacuum pressure</b> : -300 mmHg ~ -350 mmHg <b>Artwork alignment accuracy</b> : 3σ< 10μm	
<b>產能</b> Capacity	Mechanical motion time 8 sec + exposure time + vacuum delay	
<b>冷卻系統</b> Cooling System	<b>Artwork &amp; Exposure chamber</b> : The air of cooling chamber pass through heat exchange to be cool, then come to CLASS 1000 HEPA filter and enter exposure room, and then blow to Artwork, upper/lower glass <b>Lamp cooled</b> : Cooling chamber extracts the clean room air and mix hot air of lamp chamber, then after pass through heat exchanger to cooling, using the blower of lamp chamber directly cooling the lamp.	
<b>環境要求</b> Clean Room	Clean room CLASS 1000 @ 0.5μm Temperature 22°C±2°C; Humidity 55%±5%	
<b>機台外型</b> Dimension	Machine exterior uses SUS material <b>Dimension</b> : W 2840 mm x D 2900 mm x H 2237.5 mm <b>Temp control case</b> : W 1306 mm x D 900 mm x H 1460 mm <b>Weight</b> : ≤3500 kg	Machine exterior uses SUS material <b>Dimension</b> : W 2840 mm x D 2900 mm x H 2237.5 mm <b>Temp control case</b> : W 1100 mm x D 900 mm x H 2242 mm <b>Weight</b> : ≤3500 kg
<b>公用設備</b> Utilities	<b>Power</b> : AC380V, 3Φ, 75A, 50/60Hz, 30 KVA (Voltage is depended on customer requirement) <b>Compressed air</b> : >6Kg/cm <sup>2</sup> , entry of Φ12mm, 200~250 L/min <b>Expo .Room Temp. Control</b> : Cooling water 60~80 L/min water pressure 2~3Kg/cm <sup>2</sup> , water temp7~11°C Water inlet/outlet PT 1 1/4 " x 2 waste water draining PT 3/4 " x 1 <b>Hunidifier input Diameter</b> : 1/8"x1; water pressure 1~2Kg/cm <sup>2</sup> <b>Exhaust</b> : 6" x 1 (15 CMM x1)	<b>Power</b> : AC380V, 3Φ, 75A, 50/60Hz, 24 KVA (Voltage is depended on customer requirement) <b>Compressed air</b> : >6Kg/cm <sup>2</sup> , entry of Φ12mm, 200~250 L/min <b>Expo .Room Temp. Control</b> : Cooling water 40~60 L/min water pressure 2~3Kg/cm <sup>2</sup> , water temp7~11°C Water inlet/outlet PT 1" waste water draining PT 3/4" <b>Hunidifier input Diameter</b> : 1/8"x1; water pressure 1~2Kg/cm <sup>2</sup> <b>Exhaust</b> : 8" x 2 (20 CMM x2); 6" x 1 (15 CMM x1)

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

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