



FPD Lithography Systems

FX-86SH2/86S2

Gen 8 Plate FPD Lithography Systems for Large
Panel Production



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The FX-86SH2/86S2 incorporates techniques from both the FX-67S, which is ideal for high-definition panel production, and the FX-101S, which supports ultra-large plates, enabling high-definition large panel production. The FX-86SH2/86S2 achieves reduced takt time compared with previous Gen 8 lithography systems. The FX-86SH2 also enables a high resolution of 2.2 μm .

Key Features

• Multi-lens System

Both models feature the multi-lens system consisting of multiple projection lenses. This design enables a wide exposure field and excellent resolution.

• High Throughput

2,200 mm \times 2,500 mm plate size:
587 panels/hr (46-inch panels)
378 panels/hr (55-inch panels)

• High Resolution

The multi-lens system paired with the proprietary Nikon focus control system ensures excellent resolution across the entire plate. The FX-86SH2 achieves a high resolution of 2.2 μm (L/S) while also ensuring a wide depth of focus.

• High Alignment Accuracy

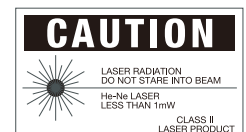
The increased number of interferometer measurement axes and the newly designed measurement system have led to improved measurement stability and a high alignment accuracy of $\pm 0.5 \mu\text{m}$.

• Improved Exposure Performance

The FX-86SH2/86S2 employs a variety of calibration functions developed utilizing our unique technology and provides enhanced exposure performance stability.

Performance

	FX-86SH2	FX-86S2
Resolution (L/S)	2.2 μm (g+h+i-line)	3.0 μm (g+h+i-line)
Projection magnification	1:1	
Alignment accuracy	$\leq \pm 0.5 \mu\text{m}$	
Maximum plate size	2,200 mm \times 2,500 mm	
Takt time	49 sec./plate Conditions: 2,200 mm \times 2,500 mm, 4 scans, g+h+i-line, 30 mJ/cm ²	



WARNING

TO ENSURE CORRECT USAGE, READ THE CORRESPONDING MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.

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