



FPD Lithography Systems

FX-66S2/66S

Gen 6 Plate FPD Lithography Systems
Delivering a Resolution of 3 μm with High Productivity



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The FX-66S2/66S supports the production of small- and medium-sized panels from Gen 6 plates. With the high productivity and stable exposure performance, the FX-66S2/66S enables the high volume production of small- and medium-sized panels with a resolution of 3 μm or less (L/S).

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**

- **High Resolution**

The multi-lens system paired with our proprietary focus control system ensures an excellent resolution of 3 μm (L/S) across the entire plate.

- **High Overlay Accuracy**

An overlay accuracy of $\pm 0.6 \mu\text{m}$ or less is achieved using simultaneous multi-point alignment with the ultraprecise stage.

- **Improved Exposure Performance**

The FX-66S2/66S employs a variety of calibration functions developed utilizing our unique technology and provides enhanced exposure performance stability.

Performance

	FX-66S2	FX-66S
Resolution (L/S)	3.0 μm (g+h+i-line)	
Projection magnification	1:1	
Overlay	$\leq \pm 0.6 \mu\text{m}$	
Plate size	1,500 mm \times 1,850 mm	
Takt time	53 s/plate Conditions: 1,500 mm \times 1,850 mm, 4 scans, g+h+i-line, 30 mJ/cm ²	55 s/plate Conditions: 1,500 mm \times 1,850 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.

All of the products in this brochure are under export restriction. The export of these products is controlled by Japanese Foreign Exchange and Foreign Trade and International export control regime. They shall not be exported without authorization from the appropriate government authorities.

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<https://www.nikon.com/business/fpd/>

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