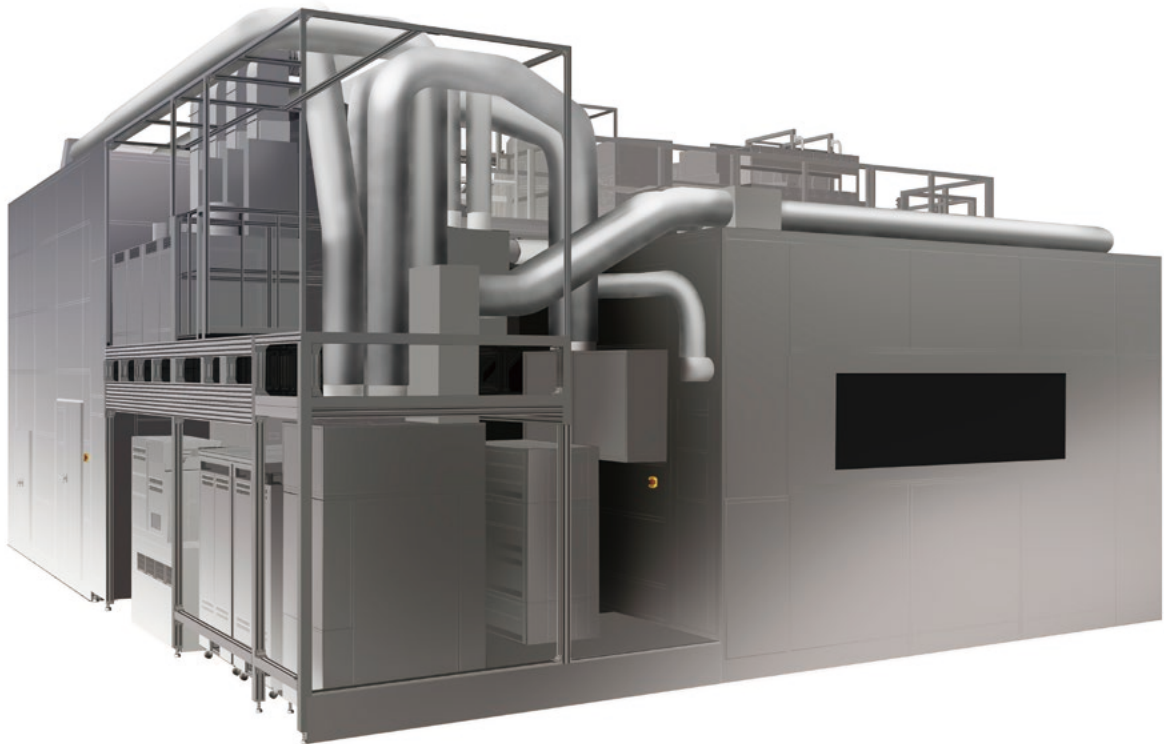




FPD Lithography System

FX-88S

Gen 8 Plate FPD Lithography System
Delivering a High Resolution of 1.5 μm



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FPD Lithography System FX-88S

The FX-88S incorporates optimized technologies from the FX-68SH/68S, which is ideal for high-definition small-and-medium-sized panel production, and the FX-103SH/103S, which excels in the production of large TV panels. Achieving high overlay accuracy and productivity in addition to high resolution, the FX-88S supports the production of various types of panels.

Key Features

• Multi-lens System

The FX-88S features the multi-lens system consisting of multiple projection lenses. This design enables a wide exposure field and excellent resolution.

• High Resolution

By incorporating the i-line projection lens, which was used by the FX-68SH/68S and is capable of high-volume, high-resolution production of panels, the FX-88S enables a resolution of 1.5 μm (L/S) in Gen 8 plates. The extremely accurate focus correction system achieves excellent line-width uniformity over the entire surface of Gen 8 plates.

• High Overlay Accuracy

Utilization of the large stage control technique of the FX-103SH/103S and a high-resolution projection lens enables a high overlay accuracy of $\pm 0.4 \mu\text{m}$.

• High Throughput

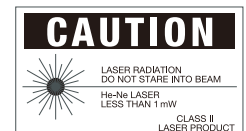
The entire surface of a Gen 8 plate can be exposed in 4 scans. The stage drive speed is improved by at least 30% compared with conventional models, resulting in a significantly shortened takt time.

• Flexibly Supports Volume Production of Diverse Panels

The FX-88S is ideal for high volume production of panels for high value-added premium displays, including those of smart devices, high-end monitors and large-scale televisions.

Performance

Resolution (L/S)	1.5 μm (i-line)
Projection magnification	1:1
Overlay	$\leq \pm 0.40 \mu\text{m}$
Plate size	2,200 mm \times 2,500 mm
Takt time	47 s/plate Conditions: 2,200 mm \times 2,500 mm, 4 scans, i-line, 30 mJ/cm ²



WARNING

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

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Performance and equipment are subject to change without any notice or obligation on the part of the manufacturer.

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

NIKON CORPORATION FPD Lithography Business Unit Sales Department

Shinagawa Intercity Tower C, 2-15-3, Konan, Minato-ku, Tokyo 108-6290, Japan
Tel: +81-3-6433-3641

NIKON PRECISION KOREA LTD.

2, Singal-ro 124beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, 16968 Korea
Tel: +82-31-288-5601

NIKON PRECISION TAIWAN LTD.

3F.-1, NO.28, Taiyuan St., Zhubei City, Hsinchu County 302, Taiwan, R.O.C.
Tel: +886-3-552-5888

NIKON PRECISION SHANGHAI CO., LTD.

12F, Tower 5, Crystal Plaza No. 36, Ping Jia Qiao Road, Pudong New District, Shanghai 200126, China
Tel: +86-21-5899-0266