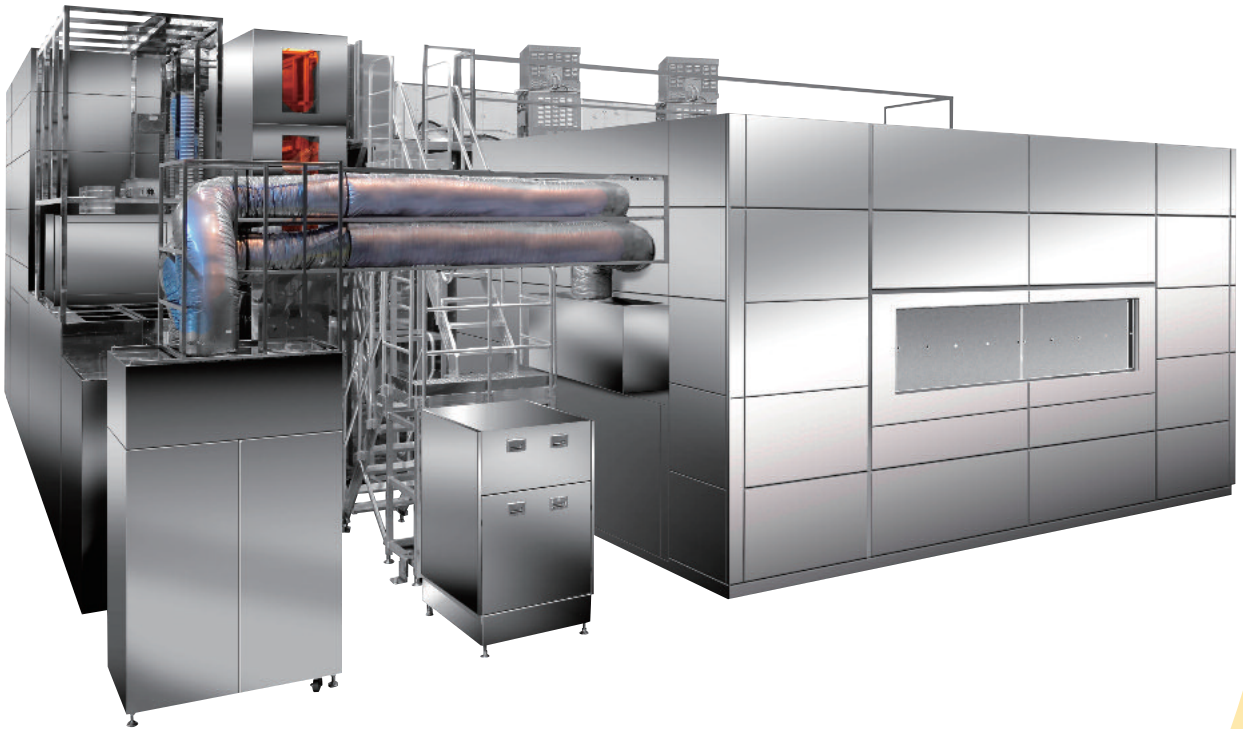




FPD Lithography System

FX-101S

Gen 10 Plate FPD Lithography System for Ultra-large Panel Production



Gen 10 Plate FPD Lithography System for Ultra-large Panel Production

FPD Lithography System FX-101S

The FX-101S offers high throughput, high resolution and high alignment accuracy – major features of the FX series – for ultra-large plate sizes. This enables mass production of large panels for TVs.

Main Features

• Multi-lens System

The FX-101S features the multi-lens system consisting of multiple projection lenses. This design enables a wide exposure field and excellent resolution.

• High Throughput

High throughput for ultra-large plate sizes is achieved using a wide exposure field coupled with a high-speed stage. Two 60-inch wide panels can be exposed in a single scan.

2,880 mm × 3,130 mm plate size:
270 panels/hr (65-inch wide panel)
410 panels/hr (60-inch wide panel)
810 panels/hr (40-inch wide panel)

• High Resolution

The multi-lens system and our proprietary focus control system enable a resolution of 3 μm (L/S) for a whole plate.

• High Alignment Accuracy

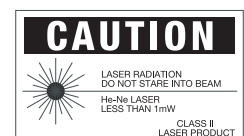
An alignment accuracy of ±0.6 μm or less is achieved using simultaneous multi-point alignment with the ultraprecise stage.

• Improved Exposure Performance

The FX-101S employs a variety of calibration functions developed utilizing our unique technology and provides enhanced exposure performance stability.

Performance

Resolution (L/S) (switchable)	3.5 μm (g+h+i-line), 3.0 μm (i-line) (option)
Projection magnification	1:1
Alignment accuracy	≅ ±0.6 μm
Plate size	2,880 mm × 3,130 mm
Takt time	70 sec./plate Conditions: 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.

Performance and equipment are subject to change without any notice or obligation on the part of the manufacturer.
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<http://www.nikon.co.jp/pec>

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