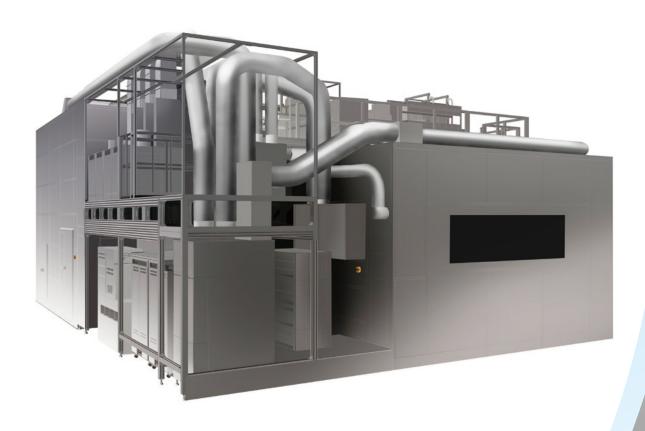


# **FPD Lithography System**

FX-885

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



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

## 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  $\mu$ m (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  $\pm 0.4 \, \mu m$ .

## • 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 deal 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	≦ ±0.40 μm
Plate size	2,200 mm × 2,500 mm
Takt time	47 s/plate Conditions: 2,200 mm × 2,500 mm, 4 scans, i-line, 30 mJ/cm <sup>2</sup>





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

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

Products and brand names are trademarks or registered trademarks of their respective companies. July 2024 ©2024 NIKON CORPORATION

#### Nikon Corporation Precision Equipment Group Marketing Department

1-5-20, Nishioi, Shinagawa-ku, Tokyo 140-8601, Japan **Tel**: +81-3-6743-5533

#### 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 Street, Zhubei City, Hsinchu County 302, Taiwan, R.O.C. **Tel**: +886-3-552-5888

#### Nikon Precision (Shanghai) Co., Ltd.

11-12F, Tower 5, Crystal Plaza No. 36, Ping Jia Qiao Road, Pudong New District, Shanghai 200126, China

Tel: +86-21-5899-0266