



LCD Scanners

FX-76S/86S

7th and 8th Generation Large Plate Size Applications
Deliver Higher Productivity and Enhanced
Exposure Stability



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The FX-76S/86S are for 7th and 8th generation large plate size applications. These LCD scanners support the production of large LCD panels using large plates. With their improved productivity and stable exposure performance, they contribute to volume production of large, high-definition LCD panels.

Main 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

FX-76S (1950 mm × 2250 mm): 514 panels/hr (42-inch wide panels), 385 panels/hr (48-inch wide panels)

FX-86S (2200 mm × 2500 mm): 496 panels/hr (46-inch wide panels), 372 panels/hr (52-inch wide panels)

• Improved Exposure Performance

The FX-76S/86S employ a new high-precision calibration function initially developed for the 10th generation LCD scanner FX-101S, and provide enhanced exposure stability performance.

• Excellent Resolution

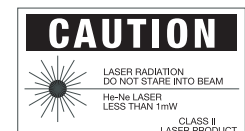
The Multi Lens System paired with the proprietary Nikon focus control system ensures excellent resolution of 3 μm (L/S) across the entire plate.

• Optimal Alignment Accuracy

Alignment accuracy of ±0.6 μm or less is achieved using simultaneous multipoint alignment with the ultra precise stage.

Specifications

	FX-76S	FX-86S
Resolution (L/S)	3.0 μm (g+h+i-line)	
Projection magnification	1:1	
Alignment accuracy	≤ ±0.6 μm	
Maximum plate size	1950 mm × 2250 mm	2200 mm × 2500 mm
Tact time	56 sec/plate Conditions: 4 scans, g+h+i-line, 30 mJ/cm ²	58 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.

Specifications 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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This product was developed and manufactured in the factory certified under ISO 9001.