

Document Scanners

fi-5950

production







fi-5950



- 135 ppm / 270 ipm at 300 dpi in colour and mono (A4 Landscape)
- A8 – A3 scanning
- Kofax VRS Professional 4.5 with built in CGA5 accelerator board
- 3 ultrasonic sensors capable of zoning
- Mixed document scanning (size, quality, content, colour scheme)
- 600 dpi optical resolution (selectable from 50 dpi in 1 dpi increments)
- Four alternative user interfaces (2 x SCSI / 2 x USB 2.0)
- Intelligent Multi-feed Ignore function
- Superior paper handling capabilities for maximum operator support
- Optional Pre and Post-Imprinter

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fi-5950	500 Sheets	50 to 600 dpi	Simplex 135 ppm	Duplex 270 ipm	
					

The fi-5950 – built for volume scanning

The fi-5950 is a truly unique production level device that withstands any comparison in terms of productivity, versatility, reliability, ease of use and ROI maximisation. This device processes paper efficiently, smoothly and quickly, whilst at the same time minimising the pre- and post-processing task for the operator. The fi-5950 scans a wider range of paper qualities with high reliability, and whilst continuously feeding paper batches, scanned images are processed and enhanced on the fly.

The fi-5950 provides selectable processing options through TWAIN or ISIS™ driver settings or by utilising its Kofax CGA5 board plus VRS Professional 4.5 interface module. The combination of scanning speed, ergonomic design and paper handling functionalities, plus the vast range of built in image processing and enhancement possibilities, minimises total operating time required to scan a predefined document volume.

Scanning Speed and Quality

New high speed CCD technology and latest image processing circuitry increase the overall processing speed. Even at resolutions of 300 dpi, 135 pages per minute or 270 images per minute can be continuously captured in colour or monochrome mode. At the same time, custom made CCD cameras enable brighter, more crisp and secure image capture of even oversized or extremely skewed documents.

Multi-zoning reliability

Ultrasonic sensors greatly increase the reliability of double feed detection, especially when processing mixed document types. The fi-5950 makes use of a combination of three individual ultrasonic sensors. These can be set to detect or ignore specified document zones, so attached labels are generally not misinterpreted. The fi-5950 correctly identifies even extremely thick materials that often force comparable products into idling.

Intelligent Multi-feed Ignore

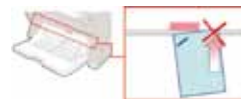
Scanning jobs differ from batch to batch or from day to day, especially in a production environment where 50,000 documents and more need to be captured every day. Commonly, actual scanning processes need to cope with envelopes, sticky notes, affixed photo images and alike. The fi-5950 features an intelligent multi-feed ignore function that allows the operator to easily adjust the scanners multi-feed detection properties on demand. This function provides three convenient modes to be selected. Manual mode will prompt the user to check the document status every time a multi-feed is detected. Two automatic detection modes will let the operator store either a detected attachment pattern or a maximum length of attachments upon detecting the first incident of such documents. Subsequent documents with similar attachments will then no longer unintentionally interrupt the scanning process. Both automatic modes support continuous processing of even documents with multiple attachments. Sheets causing multi-feed alerts are transported to the stacker zone.

Superior paper processing and continuous document protection

The fi-5950 combines paper transport characteristics that ensure safe and smooth processing. This starts when placing a document batch onto the scanner's feeder tray, which allows for any desired horizontal position by sliding the side guides accordingly.



The device easily picks the document without having to apply special care to the first sheet. Physical stress is minimised so that if sticky or stapled documents are included within the batch, the scanner's sensors



identify an overskew incident and interrupt the scanning process to prevent the document from being harmed or destroyed.

Inside the scanner's chassis, multiple sensors monitor the alignment of a paper sheet, its speed and transport criteria. Any abnormal paper behaviour will interrupt the transport process before the sheet would pass the scanning zone, protecting the high quality CCD modules.

Documents that have passed the sensor zone are captured within a 100% FLAT scanning zone featuring high speed CCD modules with ultra bright lamps. The images produced are crisper, sharper and show significantly less colour slippage.

Exiting the scanner body, documents are stacked on an active tray. Each sheet is neatly stacked so the operator can quickly proceed with post processing after the batch has been completely captured.



Kofax VRS Professional 4.5 with built in CGA5 accelerator board

The fi-5950 comes fully equipped with VRS 4.5 Professional software and a CGA5 board that can be used for adding advanced image enhancement operations to the scanning process. In combining VRS functionality with the unmatched CGA board's image enhancement and processing speed, the fi-5950 produces high quality document images that require little or no additional manual interference.

Other features include:

- Enhanced first page scanning time
- Intelligent content orientation recognition and auto-rotation
- Automatic colour detection; Without the need for separation sheets or patch codes VRS 4.5 Professional will automatically identify the colour characteristics of the original document and store each individual page accordingly. This increases processing speed and minimizes storage as well as transmission bandwidth requirements





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- Blank page detection; VRS 4.5 Professional will reliably detect blank pages and delete them, whilst ensuring that pages containing even minimum content are captured and stored
- Background saturation; Makes the scanned image appear smoother and helps save storage space requirements, Intelligent cropping front and backside, increasing accuracy
- Advanced clarity; For automatic removal of any patterned background
- New multi-feed recovery; in the event of a multi-feed, the scanner stops after the scanning process of the sheet causing the incidence and offers the user the choice to accept the current scan result or to repeat the scanning process

Applying VRS 4.5 Professional advanced image enhancement functions to the scanning process might impact the actual scanning speed compared to the rated speed. This is due to processing time needed and does not indicate abnormal product behaviour.

Paper handling features

- 100% straight paper path within capture zone
- Extremely low jam rate due to combination of paper path characteristics, enhanced transport roller modules and torque control mechanism
- Scans mixed batches of paper documents
- Comfortable feeding of different volume batches by adapting the hopper height to three optional positions
- Left, right or centre position alignment of document batches according to individual operator needs or document specifics
- Continuous manual feeding mode using the regular hopper
- Multi-feed detection using four different operator definable methods:
 - Multi-Zoning Ultrasonic sensors that can be specified to monitor or ignore defined document segments
 - Paper length detection
 - Combined mode activating ultrasonic and paper length detection
 - Customisable and Intelligent Multi-feed Ignore function
- Document length limitation increased to 40"

Image quality features

- Scan in monochrome, grayscale or colour
- Optical resolution of up to 600 dpi
- Multi-stream mode available for simultaneously creating two images
- Supports drop out colour definition of any available colour
- Automatic de-skew
- Automatic colour detection
- Anti-Corner cutting enabled by overskew control

Image processing features

- Auto-Binarisation
- Continuous, almost uninterrupted scanning operation, since the fi-5950 recalibrates on the fly without operator intervention
- Enables blank page detection and automatic discarding
- Custom made CCD modules that capture document information within a horizontal range of 317 mm. Combined with Hybrid Cropping, even extremely skewed and damaged documents are deskewed and cropped to their actual format
- Wide range of image file formats including TIFF, BMP, JPEG, PDF and PDF/A

ROI features

The fi-5950 has one of the lowest operating costs associated with it, with the cost for consumables per page averaging below €0.0003

- Highly competitive device price
- Long durability consumables: 600,000 sheets for PAD Assembly, Pick Roller, Separation Roller and Brake Roller
- All consumables operator exchangeable
- Automatic operator notification of consumable change cycle
- 100,000 sheets per day duty cycle
- Small footprint significantly decreasing space required
- Optional Pre- and A3+ size Post-Imprinter

Example of actual utilisation time

8 hours A4 portrait: **50,000** 8 hours A4 landscape: **70,000** 12 hours A4 landscape: **100,000**

* **fi-5950 is suitable for two-shift utilisation**

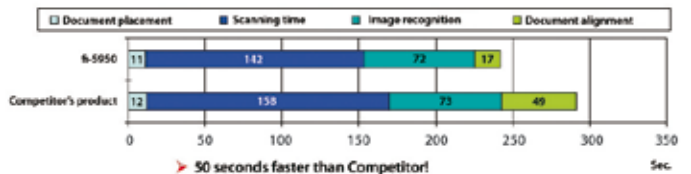
- Field proven high day-to-day productivity
- The fi-5950 operates to scan more documents in a defined period of time than even higher rated competitor's products

Scanned Documents

(8 hours, including 1 hour rest) Scanned documents: A5, landscape, NCR. Scanning conditions: Colour, 200 dpi, A3 settings, duplex ADF, auto-size detection, using scanner's memory, JPEG (4)

fi-5950	42,000 sheets
Higher rated competitor's model	31,000 sheet

The actual time needed to scan a single batch of 400 documents in the same field test has proved to be significantly lower, when using the fi-5950.



Operator centric features

- Extended language support (driver, manuals and panel)
- Active stacking tray for neat batches and operator support; prevents paper sheets from curling
- Low noise operation rated below 55 dB
- Easy cleaning access to all consumable and paper path areas
- Storage box on top of the scanner for holding a spare set of consumables to hand when needed
- Error Recovery Guide assists the operator in identifying the cause of error messages and provides immediate access to the user guide for video or diagram instructions
- Software Operator Panel provides the operator with an easy means to change scanner settings directly, without interfering with the driver. The SOP is accessible directly from the Windows task tray

fi-5950 Specifications



Product name	fi-5950	
Scanner type	ADF and manual feed	
Scanning modes	Simplex / duplex, colour, grayscale, monochrome	
Imaging sensor type	Colour CCD x 2	
Light source	White cold cathode discharge lamp	
Scanning range	Maximum: A3: 297 x 420 mm Minimum: A8 (portrait): 53 x 74 mm	
Paper weight (thickness)	31 to 209 g/m ² (52 to 157 g/m ² for B4 sheets or larger)	
Scanning speed (A4 portrait)	Colour / Grayscale / Mono	Simplex: 105 ppm / Duplex: 210 ipm (200 / 300 dpi)
Scanning speed (A4 landscape)	Colour / Grayscale / Mono	Simplex: 135ppm / Duplex 270 ipm (200 / 300dpi)
Paper chute capacity	500 sheets (A4: 80 g/m ²)	
Background colours	Black or white (switchable)	
Optical resolution	600 dpi (maximum)	
Output resolution	Colour / Grayscale / Mono	50 to 600 dpi (can adjust by 1 dpi increments)
Output format	Colour: 24 bit, Grayscale: 8 bit, Monochrome: 1 bit	
AD converter	1024 levels (10 bit)	
Interface	1 x TWAIN / ISIS module with Ultra wide SCSI and USB 2.0 / USB 1.1 1 x VRS 4.5 Professional module with Ultra wide SCSI and USB 2.0 / USB 1.1 1 x Third Party module slot	
Connector shape	SCSI: Shield type 68-pin (pin type), USB: B type	
Output mode (half-tone)	Dither / error diffusion	
Voltage or voltage range	AC 100 to 240V, +10% / -10%	
Power consumption	Operating: 250 W or less (Sleep mode: less than 12 W)	
Operational environment	Temperature: 15° to 35°C / Relative humidity: 20 to 80% (Non-condensing)	
Dimensions (W x D x H)	540 x 540 x 500 mm	
Weight	50 kg	
Bundled software	TWAIN, ISIS, ScandAllPro V1.8, VRS Professional 4.5, Adobe Acrobat 9 Standard, Software Operation Panel, Visual Error Recovery Guide, Image Processing Software, QuickScan (demo version)	
Environmental compatibility	ENERGY STAR® and RoHS	
Others	Multi-feed detection	3 ultrasonic multi-feed detection sensors
	Long paper scanning	up to 863 mm
	Paper counter	Equipped

Options	Part number	Remarks
Pre imprinter	PA03450-D700	Prints on the front of documents
Post imprinter	PA03450-D710	Prints on the back of documents

Consumables	Part number	Remarks
Printer cartridge	CA00050-0262	Lifetime: 4,000,000 printed characters. fi-590PRF / fi-590PRB print heads
Production Scanner Cleaning Kit	SC-CLE-KIT2	Includes F1 and F2 pump spray cleaner fluids, cleaning sheets and cleaning paper
Consumable Kit 1	CON3450-002A	Includes 2 x Pad assembly, 2 x Pick roller assembly, 2 x Brake roller, 2 x Separator Roller; total max. lifetime 1,200,000 documents
Consumable Kit 2	CON3450-006A	Includes 6 x Pad assembly, 6 x Pick roller assembly, 6 x Brake roller, 6 x Separator Roller; total max. lifetime 3,600,000 documents

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PFU Imaging Solutions

Europe Limited

Hayes Park Central
Hayes End Road, Hayes
Middlesex UB4 8FE
England

Tel: (+44-(0)20) 8573 4444
Fax: (+44-(0)20) 8573 2643

PFU Imaging Solutions GmbH

Frankfurter Ring 211
80807 Munich
Germany

Tel: (+49-(0)89) 32378-0
Fax: (+49-(0)89) 32378-100

PFU Imaging Solutions S.p.A.

Via Nazario Sauro, 38
20099 Sesto San Giovanni (MI)
Italy

Tel: (+39) 0226294.1
Fax: (+39) 0226294.201

<http://emea.fujitsu.com/scanners>