

Document Scanners

fi-5900C

production







fi-5900C



- 125 ppm / 250 ipm at 300 dpi in colour and mono (A4 Landscape)
- A8-A3 scanning
- 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)
- **New:** Intelligent Multifeed Ignore function
- Fully equipped with Kofax VRS 4.1 Professional hardware module
- Superior paper handling capabilities for maximum operator support
- Optional Pre and Post-Imprinter

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THE POSSIBILITIES ARE INFINITE

fi-5900C	500 Sheets	50 to 600 dpi	Simplex 125 ppm	Duplex 250 ipm	
					

The fi-5900C – built for volume scanning

The fi-5900C 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-5900C scans a wider range of paper qualities with much higher reliability, and whilst continuously feeding paper batches scanned images are processed and enhanced on the fly.

The fi-5900C provides selectable processing options through TWAIN or ISIS driver settings and by utilising its on-board Kofax VRS 4.1 Professional 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, 125 pages per minute or 250 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-5900C 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-5900C correctly identifies even extremely thick materials that often force comparable products into idling.

Intelligent Multifeed Ignore

Scanning jobs differ from batch to batch or from day to day, especially in a productive environment where 50,000 documents and more need to be captured every day. Often enough actual scanning processes need to cope with envelopes, sticky notes, affixed photo images and alike. The fi-5900C features an intelligent multifeed ignore function that allows the operator to easily adjust the scanners multifeed 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 multifeed 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 alike attachments will then no longer unintentionally interrupt the scanning process. Both automatic modes support continuous processing of even documents with multiple attachments.

Superior paper processing and continuous document protection

The fi-5900C 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% straight 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. Sheet by sheet is neatly stacked so the operator can quickly proceed with post processing after the batch has been completely captured.



VRS 4.1 Professional included

The fi-5900C is fully equipped with Kofax VRS 4.1 Professional hardware that can be used for adding advanced image enhancement operations to the scanning process. These can then be combined to receive digital document images that show high visual quality and require little or no additional manual interference. Some other features include intelligent content orientation recognition and auto-rotation as well as:

- Automatic colour detection; Without the need for separation sheets or patch codes VRS 4.1 Professional will automatically identify the colour characteristics of the original document and store each individual page accordingly. This increases processing speed and minimizes storage requirements





Bundled with

Adobe Acrobat 7.0 Standard

For Microsoft Windows 2000 / XP



- Blank page detection; VRS 4.1 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
- Advanced clarity; For automatic removal of any patterned background

Applying VRS 4.1 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 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
- Multifeed 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
 - Customizable and Intelligent Multifeed Ignore function

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-5900C 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 317mm. 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 and PDF

ROI features

The fi-5900C 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-5900C is suitable for two-shift utilisation

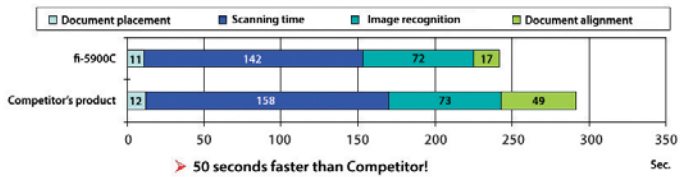
- Field proven high day-to-day productivity
- The fi-5900C operates to scan more documents in a defined period of time than even higher rated competitor's products

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-5900C	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-5900C.



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 providing set of consumables at hand when needed



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fi-5900C Specifications



Product name	fi-5900C	
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/m2 (52 to 157 g/m2 for B4 sheets or larger)	
Scanning speed (A4 portrait)	Colour/Grayscale/Mono	Simplex: 125 ppm / Duplex: 250 ipm (200 / 300 dpi)
Paper chute capacity	500 sheets (A4: 80 g/m2)	
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 Kofax VRS 4.0 Plus 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™, ScandAll 21, Kofax VRS 4.0 Plus, Adobe® Acrobat® 7.0 Standard, Software Operation Panel, Visual Error Recovery Guide, Image Processing Software (trial version), 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



ENERGY STAR® compliant

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

Consumables	Part number	Remarks
Pad assembly	PA03450-K014	Lifetime: Every 600,000 sheets or one year
Pick roller assembly	PA03450-K011	Lifetime: Every 600,000 sheets or one year
Brake roller	PA03450-K013	Lifetime: Every 600,000 sheets or one year
Separator roller	PA03450-K012	Lifetime: Every 600,000 sheets or one year
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; available in Q02 2007
Consumable Kit #1	CON3450-002A	Includes 2 x Pad assembly, 2 x Pick roller assembly, 2 x Brake roller, 2 x Separator Roller
Consumable Kit #2	CON3450-006A	Includes 6 x Pad assembly, 6 x Pick roller assembly, 6 x Brake roller, 6 x Separator Roller

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