

# SCANNERS

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## Document scanners

**ScanSnap-IIplus**

**ScanPartner *fi*-4010 Office**

*fi*-5110C

*fi*-4120C2

*fi*-4220C2

**ScanPartner 620C**

*fi*-4530C

*fi*-4340C

*fi*-5650C

*fi*-5750C

***fi*-4860C Ultra**

*fi*-4990C

M4099D

## Small format scanner

*fi*-60F

## Network scanning

*fi*-5000N

## Capture enhancement

Soft IPC V2.5

**FUJITSU**

THE POSSIBILITIES ARE INFINITE

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Fujitsu offers the most comprehensive range of document scanners available on the market today. Manufactured to the highest quality standards, Fujitsu scanners have an excellent reputation for reliability. Indeed according to independent research\*, Fujitsu sells more document scanners across Europe than all of their competitors added together.

Whether your application involves document management, archiving, workflow or forms processing, Fujitsu most likely has the optimum scanner for the capture of your documents and data.

**FUJITSU SCANNERS CAN OFFER YOU:**

- The ability to scan paper sizes from business card to A3
- Scan speeds from 10 to 180 images per minute
- Automatic document feeders as standard
- Simplex/duplex scanning
- Colour scanning capability as well as in black/white or grayscale
- Image enhancement for poor quality/mixed colour documents
- Complementary technologies across a broad range
- SCSI & USB models

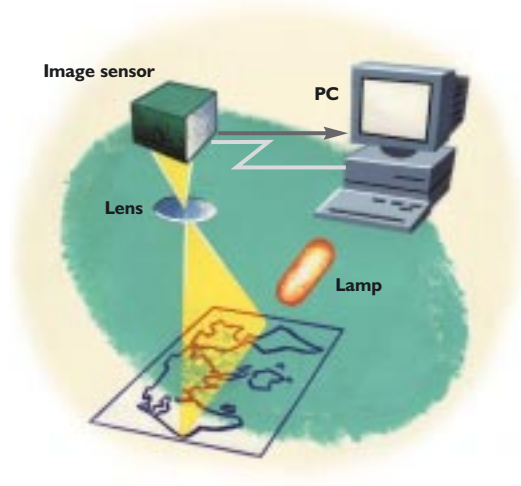
Established in the UK in 1981, Fujitsu Europe Limited is a wholly owned subsidiary of Fujitsu Limited, the global electronics giant. An established player in the UK peripherals market, it is a major distributor of a range of scanner and computer storage products.

Fujitsu Limited is a leading provider of Internet based information technology solutions for the global marketplace. Comprising over 500 group companies and affiliates worldwide including ICL, Amdahl and DMR Consulting it had consolidated revenues of 4.7 trillion yen (\$45 billion) in the fiscal year ended March 31, 2004. Fujitsu's pace setting technologies, world class computing and telecommunications platforms, and global corps of over 60,000 systems and services experts make it uniquely positioned to harness the power of the Internet to help its customers succeed. Altogether the Fujitsu Group has 157,000 employees and operations in over 60 countries.

\* McArthur Stroud International

## WHAT IS AN IMAGE SCANNER?

The primary function of an image scanner is to convert text or images into an electronic (digitised) format which can be processed by a computer.



## What does Electronic Document Management (EDM) involve?

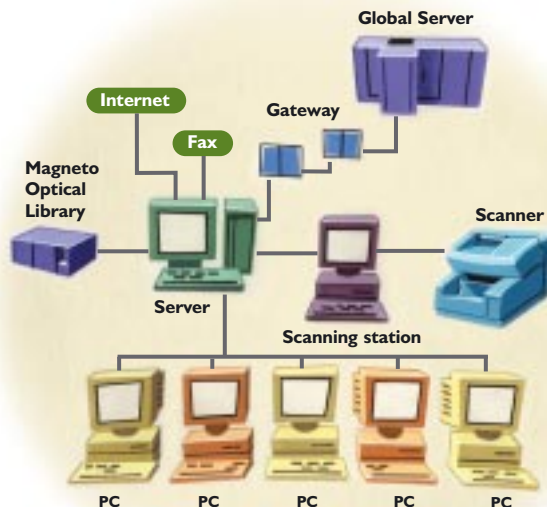
EDM is a means of electronically managing information which has been distributed on paper. Other terms such as document image processing (DIP) and Electronic Filing Systems are also commonly used.

There are normally 5 processes that make up EDM:  
Scanning, Indexing, Storing, Retrieval and Archiving

- Scanning** – capturing the document and converting it into a digitised electronic image
- Indexing** – attaching searchable index information to the image or the processing of data held within the image
- Storing** – allocating space on an electronically readable media for the scanned material
- Retrieval** – the recovery of the digitised material or data for viewing or printing
- Archiving** – the long-term storage of digitised material for possible future referral.

## IMAGING APPLICATIONS

There are an enormous number of different applications and uses for document scanning. The main ones include:



### Filing and Retrieval

Replacing traditional document management methods (filing cabinets).

### Workflow applications

Using document imaging, automatic routing and sequencing to perform multi-stage transaction type processing.

### Forms processing

Processing information held on printed forms, including hand written information.

### Image conversion

Converting the scanned image of the document into digital text and graphics that can be edited. Optical Character Recognition (OCR) eliminates the need to re-type documents and expands the search and retrieval parameters for documents.

### Document transfer and communication

Scanning documents to facilitate movement from one location to another.

## ScanSnap-*IIplus* – new product

With ScanSnap-*IIplus*, Fujitsu presents a powerful scanner for professional single user support. It enables simple scanning of

typical paper documents that are produced on a daily basis, without creating any additional work for the user. ScanSnap-*IIplus* therefore uses a specially developed method to control the device, which reverses the “normal” scanning process\*.

With ScanSnap-*IIplus*, paper can simply be inserted into the ADF and automatically scanned at the click of a button. The resulting scan is stored as a PDF file and displayed in Adobe® Acrobat®. As well as a browsable PDF, the user can also create a Word document, Excel spreadsheet, PowerPoint 2003 presentation or business card contacts in Outlook, Act! and Goldmine. For ease of access and optimum user support in retrieving information, ScanSnap-*IIplus* comes with a full version of ScanSnap Organizer software. This application displays any PDF files’ contents and lets the user zoom in and scroll through multipage documents without actually opening them.

The scanner package also includes the full version of Adobe® Acrobat® 7.0 Standard, ABBYY® FineReader for Fujitsu ScanSnap software and CardMinder, the business card management program.

\* Controlling ScanSnap-*IIplus* is not possible using TWAIN or ISIS drivers.



## ScanPartner *fi-4010 Office*

The ScanPartner *fi-4010 Office* aims to make office work easier and more efficient. The built in ADF (Automatic Document Feeder) enables the user to process up to 25 pages in one batch rather than scanning one by one, the scanner also comes with flatbed functionality which enables the user to scan delicate or bound documents that won't pass through an ADF. Also, the ADF speed of 10 pages per minute (3.3 ppm colour) significantly shortens the time taken to scan multi-page documents, this is a big advantage over flatbed only scanners where a lot of time is taken scanning documents one by one.

The ScanPartner *fi-4010 Office* is designed with the office user in mind, it can easily be integrated into document management solutions using its TWAIN driver. Typical additional document related tasks like storing, personal archiving and supporting workflow are enabled and enhanced by making use of this device and its packaged content.

The scanner can be utilised in many ways, e.g. why not scan in an image for importing into your PowerPoint presentation. Or substitute costly and low quality faxing by simply scanning your documents and automatically creating a PDF file that can then be emailed.

This scanning solution consists of the scanner itself, a full version of Adobe® Acrobat® 6.0 Standard, a full version of the text recognition application ABBYY® FineReader 7.0 Professional and the easy to use scanner user interface ScandAll. Thus the ScanPartner *fi-4010 Office* package includes everything needed for scanning to file, for routing scanned copies to a printer as well as for retrieving information from documents that have been processed by the ABBYY® OCR engine.



### ScanSnap-*IIplus* Specifications

Scanning speed – simplex	Colour and mono: 15 ppm (at 150 dpi, DIN A4, portrait)
Scanning speed – duplex	Colour and mono: 30 ipm (at 150 dpi, DIN A4, portrait)
Document feeding mode	ADF, Duplex colour scanning
ADF capacity	50 sheets (A4, 80 g/m <sup>2</sup> )
Interface	USB 2.0
Document sizes	A4, B5, A5, B6, A6, A8, Business card, US letter, legal (minimum 50.8 x 50.8 mm), auto detection
Optical resolution	600 dpi
Dimensions (H x W x D)	150 x 284 x 146 mm
Weight	2.5 kg or less (without power adapter)
Bundled software	Adobe® Acrobat® 7.0, ABBYY® FineReader for Fujitsu ScanSnap, CardMinder, Organizer

### ScanPartner *fi-4010 Office* Specifications

Scanning speed – colour	3.3 ppm (at 150 dpi, DIN A4, portrait)
Scanning speed – mono	10 ppm (at 200 dpi, DIN A4, portrait)
Document feeding mode	ADF and Flatbed
ADF capacity	25 sheets
Interface	USB 1.1
Document size	Minimum: A6 (105 mm x 148.5 mm) Maximum: A4 (210 mm x 297 mm)
Optical resolution	600 / 400 / 300 / 240 / 150 / 100 / 50 dpi (selectable)
Dimensions (H x W x D)	179 x 445 x 304 mm
Weight	4.9 kg
Typical daily throughput	35 pages (5,000 hours MTBF)
Bundled software	Adobe® Acrobat® 6.0, ABBYY® FineReader 7.0, ScandAll and TWAIN driver

## fi-5110C – new product

The fi-5110C document scanner from Fujitsu provides an easy and affordable means of introducing professional document management to the desktop user, offering users the opportunity to easily archive, process and forward documents. The scanners combination with custom software solutions for archiving and document management will substantially and sustainably simplify everyday office routines in small businesses, medical offices or law firms.

### Ease of handling

A prerequisite for usage of such a system is that the hardware handling is effortless and intuitive. This is exactly what the fi-5110C achieves: by utilising the integrated TWAIN or ISIS drivers the scanner can be conveniently controlled from within most document management solutions. Alternatively the fi-5110C can also be activated via its programmable operator panel, allowing the user to exploit functionalities like scan-to-fax, scan-to-print or scan-to-email without any additional burden. Scanning documents directly to text via ABBYY® FineReader 7.0 Professional is possible and the fi-5110C comes with a full version of this market leading text recognition application.



### Fast working

The fi-5110C can scan up to 15 double-sided paper documents per minute, creating high quality digitised data in monochrome, greyscale or colour almost immediately. Without interruption the intended information processing tasks can seamlessly be initiated. Depending on the character of these tasks the fi-5110C can automatically create graphical file formats like TIFF or JPEG, or alternatively be set to create files in PDF format. PDF has developed to be the de facto standard for easy and reliable document sharing and exchange. The full version of Adobe® Acrobat® 6.0 Standard is included with the fi-5110C.

### Small footprint

For a high performance desktop device like the fi-5110C to be used in typical office environments it has to be small enough to fit right onto the operator's desktop and not block desk space when not in use. The fi-5110C's footprint is smaller than a sheet of A4 paper! The paper tray can be folded towards the scanner body so that nothing hinders the regular working ergonomics. Yet this scanner is capable of processing paper formats ranging from the size of a typical business card up to A4 or even extra long documents (i.e. protocols, ECG, etc. up to 34" length).

### Visibly good scanning results

Document scanners are designed to provide basic text or mixed content documents in high quality digital form quickly and without requiring much memory space. Different from flatbed scanners that are designed for home or DTP use, documents are scanned at resolutions between 150 and 300 dpi with a colour depth of 24 bit. When these values are higher, required memory space increases exponentially without identifiable value gain. Fujitsu developed the fi-5110C especially for document capturing and processing applications, for which this integral element of a professional solution creates optimised images. The visual quality can be automatically enhanced by making use of functions like image emphasis, error diffusion and dithering, relieving the user from the hassle of post scanning image editing. Even scanning forms containing coloured areas can be optimised by defining a dropout colour that is automatically blanked out.

### Optional extension

When high volumes of documents are to be scanned in batches for archiving in monochrome mode, Fujitsu's Soft IPC software allows the user to select pre-defined scanning profiles creating optimised images with even less effort.



### fi-5110C Specifications

Scanning Speed – simplex – mono	15 ppm (at 200 dpi, DIN A4, portrait)
Scanning Speed – simplex – colour	15 ppm (at 150 dpi, DIN A4, portrait)
Scanning Speed – duplex – mono	30 ppm (at 200 dpi, DIN A4, portrait)
Scanning Speed – duplex – colour	30 ppm (at 150 dpi, DIN A4, portrait)
Document feeding mode	ADF
ADF Capacity	50 sheets
Interface	USB 2.0
Document Size – ADF minimum	DIN format A8 (52.5 x 74 mm)
Document Size – ADF maximum	DIN format A4 (210 x 297 mm)
Video Output format	1 bit mono, 8 bit grayscale, 24 bit colour
Optical resolution	50 to 600 dpi
Options	Soft IPC, fi-5000N network adapter
Dimensions (H x W x D)	130 x 293.5 x 166 mm
Weight	3 kg
Recommended daily throughput	500 pages (8,500 hours MTBF)



## **fi-4120C2 – new product**

The fi-4120C2 scanner from Fujitsu is a robust, compact scanner offering users scanning speeds of 25 ppm in mono at 200 dpi and in colour at 150 dpi, and 50 ipm in duplex through the 50 sheet ADF. Aimed at applications requiring several hundred scanned images a day, the fi-4120C2 can scan paper sizes from A8 to A4 at resolutions up to 600 dpi through a selectable SCSI or USB 2.0 interface.

The fi-4120C2 is the only document scanner of its class that features an optional imprinter. This module enables “stamping” a scanned document’s reverse side for seamless proof of capture. Also available to speed up and simplify batch scanning processes Fujitsu offers Soft IPC V2.5. This is an image enhancement application that provides pre-defined templates for efficiently capturing typical document types as monochrome images or in dual stream mode additionally as colour data.

### **fi-4120C2 Specifications**

Scanning speed – simplex – mono	25 ppm (at 200 dpi, DIN A4, portrait)
Scanning speed – simplex – colour	25 ppm (at 150 dpi, DIN A4, portrait)
Scanning speed – duplex – mono	50 ipm (at 200 dpi, DIN A4, portrait)
Scanning speed – duplex – colour	50 ipm (at 150 dpi, DIN A4, portrait)
Document feeding mode	ADF
ADF capacity	50 sheets
Interface (selectable)	SCSI-2 or USB 2.0
Document size – ADF minimum	DIN format A8 (52.5 x 74 mm)
Document size – ADF maximum	DIN format A4 (210 x 297 mm)
Video output format	Binary, grayscale (1024 levels), 16.7 million colours
Optical resolution	600 dpi
Options	Soft IPC, Imprinter, fi-5000N network adapter
Dimensions (H x W x D)	158 x 301 x 168 mm
Weight	3.5 kg
Recommended daily throughput (max)	1,000 pages (8,500 hours MTBF)

## **fi-4220C2 – new product**

Fujitsu’s fi-4220C2 scanner, like the fi-4120C2, is an ideal scanner for businesses that need to archive documents, scan in reports or implement a low cost document management system. Scanning speeds of up to 25 ppm in simplex (mono 200 dpi, colour 150 dpi) and 50 ipm in duplex (mono 200 dpi, colour 150 dpi) are possible via the 50 page ADF. In addition, a flatbed is available for scanning delicate documents or those too big to pass through the ADF. The scanner can scan mixed documents from A8 size up to A4 at resolutions of up to 600 dpi, and both SCSI and USB 2.0 interfaces are available.

Like the fi-4120C2, the fi-4220C2 features a double feed detection sensor which prevents two or more documents being fed simultaneously. Both models feature deskew and autocropping functions (available through the ADF’s selectable black background). A full version of Adobe® Acrobat® 6.0 Standard is bundled with these scanners.



### **fi-4220C2 Specifications**

Scanning speed – simplex – mono	25 ppm (at 200 dpi, DIN A4, portrait)
Scanning speed – simplex – colour	25 ppm (at 150 dpi, DIN A4, portrait)
Scanning speed – duplex – mono	50 ipm (at 200 dpi, DIN A4, portrait)
Scanning speed – duplex – colour	50 ipm (at 150 dpi, DIN A4, portrait)
Document feeding mode	ADF and Flatbed
ADF capacity	50 sheets
Interface (selectable)	SCSI-2 or USB 2.0
Document size – ADF minimum	DIN format A8 (52.5 x 74 mm)
Document size – ADF maximum	DIN format A4 (210 x 297 mm)
Video output format	Binary, grayscale (1024 levels), 16.7 million colours
Optical resolution	600 dpi
Option	Soft IPC, fi-5000N network adapter
Dimensions (H x W x D)	229 x 302 x 569 mm
Weight	8 kg
Recommended daily throughput (max)	1,000 pages (8,500 hours MTBF)



## ScanPartner 620C

The ScanPartner 620C offers users the ability to scan at up to 20 pages per minute in black and white at 200 dpi or 7 pages per minute in full 36-bit single pass colour (R,G,B) and at a resolution of up to 600 x 1200 dpi that easily satisfies even sophisticated demand. Long life cold cathode lighting, single pass CCD scanning, and the high resolution provide high quality scanning of colour or black and white documents for use in an array of applications. The ScanPartner 620C has the capability to scan up to a size of A4 through the ADF from a minimum size of A7 or even smaller on the flatbed which provides further versatility.

The ScanPartner 620C offers a MTBF of up to 5,000 hours based on 500 documents per day and has an industry standard SCSI-2 interface. It can be integrated into leading Document Imaging Software products using TWAIN or ISIS drivers.

### ScanPartner 620C Specifications

Scanning speed – simplex – mono	20 ppm (at 200 dpi, DIN A4, portrait)
Scanning speed – simplex – colour	7 ppm (at 200 dpi, DIN A4, portrait)
Document feeding mode	ADF and Flatbed
ADF capacity	50 sheets
Interface	SCSI-2
Document size – ADF minimum	DIN format A7 (74 x 105 mm)
Document size – ADF maximum	DIN format A4 (210 x 297 mm)
Video output format	Binary, grayscale (256 levels), 36 bit colour
Optical resolution	600 x 1200 dpi
Dimensions (H x W x D)	166 x 570 x 350 mm
Weight	10 kg
Recommended daily throughput (max)	500 pages (5,000 hours MTBF)

## fi-4530C

The fi-4530C is the smallest colour scanner in its class to offer a dual SCSI and USB 2.0 interface plus an A3 (or A4 landscape) automatic document feeder. Its innovative space saving design ensures that the scanner can be positioned on even the smallest of desk areas. Impressive scan speeds of 35 ppm at 200 dpi are achievable in colour, grayscale or mono. With true 600 dpi optical resolution, superb image quality is ensured, and a variety of image processing functions enable the enhancement of even the poorest originals.

The fi-4530C's unique ultrasonic double feed detection prevents two or more sheets being fed through together. Designed with the user in mind, scan and send buttons allow "one touch operation" making the scanner very easy to use. Page rotation and automatic paper size detection is available through the driver to increase productivity. In addition, an imprinter option is available that enables documents to be endorsed with up to 40 characters once they have been scanned. Bundled with the scanner is Adobe® Acrobat® 6.0 which enables users to create Adobe Portable Document Format (PDF) files, the de facto standard for electronic document distribution worldwide.



### fi-4530C Specifications

Scanning speed – simplex – mono/colour	35 ppm (at 200 dpi, DIN A4, portrait)
	45 ppm (at 150 dpi, DIN A4, portrait)
	47 ppm (at 200 dpi, DIN A4, landscape)
Scanning speed – duplex – mono/colour	35 ipm (at 200 dpi, DIN A4, portrait)
	45 ipm (at 150 dpi, DIN A4, portrait)
	47 ipm (at 200 dpi, DIN A4, landscape)
Document feeding mode	ADF
ADF capacity	100 sheets
Interface	SCSI-2 and USB 2.0
Document size – ADF minimum	DIN format A8 (52.5 x 74 mm)
Document size – ADF maximum	DIN format A3 (297 x 420 mm)
Video output format	Monochrome, grayscale (8 bit), colour (24 bit)
Optical resolution	600 dpi
Options	Post Imprinter, Soft IPC, fi-5000N network adapter
Dimensions (H x W x D)	193 x 399 x 225 mm
Weight	8.5 kg
Typical daily throughput	2,500 pages (8,500 hours MTBF)



**fi-4340C – enhanced product**

The Fujitsu fi-4340C is an ideal scanner for a wide range of departmental applications. It uses a 600 dpi camera enabling extremely high quality scans not only for typical document management needs, but even suited for scanning of graphics for web or DTP projects. The fi-4340C offers the ability to scan at up to 40 pages per minute in simplex (76 ipm duplex) and 16 pages per minute in colour (29 ipm duplex). The ADF has a capacity of 100 sheets and can transport documents from A8 size up to legal size (8.5" x 14"). The fi-4340C includes Fujitsu's unique infra-red double feed detection feature.

**Now with a selectable USB 2.0 or SCSI-2 interface.**

**fi-4340C Specifications**

Scanning speed – simplex – mono	40 ppm (at 200 dpi, DIN A4, portrait)
Scanning speed – simplex – colour	16 ppm (at 200 dpi, DIN A4, portrait)
Scanning speed – duplex – mono	76 ipm (at 200dpi, DIN A4, portrait)
Scanning speed – duplex – colour	29 ipm (at 200 dpi, DIN A4, portrait)
Document feeding mode	ADF and Flatbed
ADF capacity	100 sheets
Interface	SCSI-2, TP-IF and USB 2.0
Document size – ADF minimum	DIN format A8 (52.5 x 74 mm)
Document size – ADF maximum	DIN format A4 (210 x 297 mm)
Video output format	Binary, grayscale (256 levels), colour
Optical resolution	600 dpi
Options	IPC-4D Board
	JPEG Compression Board
	Imprinter
	Video Interface Board
Dimensions (H x W x D)	220 x 556 x 423 mm
Weight	15 kg
Typical daily throughput	4,000 pages (8,500 hours MTBF)

**fi-5650C – new product**

The fi-5650C is Fujitsu's low volume production scanner that offers users high speed, high resolution scanning whilst taking up minimal space. It brings volume scanning capability to the department.

The scanner is a unique ADF-powered device that can cope with mixed quality sheets from A8 to A3. The feeder tray holds up to 200 documents, enabling refeeds while continuing to scan. Duplex scanning speeds of 110 ipm in mono or colour are possible at 200 and 300 dpi alike. The fi-5650C is connected to a PC via SCSI or USB 2.0 interface. The optical resolution of the scanner is 600 x 600 dpi.

Ultrasonic double feed detection, allows for smooth reliable scanning. The model provides deskew and autocropping functionalities which enhance the captured image. Soft IPC and an imprinter are available as optional extras.



**fi-5650C Specifications**

Scanning speed – simplex – mono	55 ppm (at 200 and 300 dpi, DIN A4, portrait)
Scanning speed – simplex – colour	55 ppm (at 200 and 300 dpi, DIN A4, portrait)
Scanning speed – duplex – mono	110 ipm (at 200 and 300 dpi, DIN A4, portrait)
Scanning speed – duplex – colour	110 ipm (at 200 and 300 dpi, DIN A4, portrait)
Document feeding mode	ADF
ADF capacity	200 sheets
Interface	Ultra SCSI (half-pitch 50 pin) x 1
	USB 2.0 x 1 (also compatible with USB 1.1)
Document size – ADF minimum	DIN format A8 (52.5 x 74 mm)
Document size – ADF maximum	DIN format A3 (297 x 420 mm)
Video output format	Binary, grayscale (256 levels), 24-bit colour
Optical resolution	600 dpi
Options	Soft IPC, Imprinter
Dimensions (H x W x D)	293 x 639 x 428 mm
Weight	17 kg
Typical daily throughput	8,000 pages (8,500 hours MTBF)



## fi-5750C

The fi-5750C from Fujitsu scans 55 pages per minute in both colour and monochrome (at 200 and 300 dpi, A4 portrait). It is equipped with a dual Ultra SCSI/USB 2.0 interface that enables efficient connectivity. With its significant concept of ergonomic design and space saving footprint it greatly contributes to business productivity.

The fi-5750C can scan from A8 size to A3 through a 200 sheet ADF (Automatic Document Feeder). Users wishing to scan at a higher resolution can do so at up to 600 dpi where the scanning speed is still a remarkably high 30 ppm at A4 landscape, thus making it suitable even for print-on-demand solutions.

### fi-5750C Specifications

Scanning speed – simplex – mono	55 ppm (at 200 and 300 dpi, DIN A4, portrait)
Scanning speed – simplex – colour	55 ppm (at 200 and 300 dpi, DIN A4, portrait)
Scanning speed – duplex – mono	110 ipm (at 200 and 300 dpi, DIN A4, portrait)
Scanning speed – duplex – colour	110 ipm (at 200 and 300 dpi, DIN A4, portrait)
Document feeding mode	ADF and Flatbed
ADF capacity	200 sheets
Interface	Ultra SCSI (half-pitch 50 pin) x 1
	USB 2.0 x 1 (also compatible with USB 1.1)
Document size – ADF minimum	DIN format A8 (52.5 x 74 mm)
Document size – ADF maximum	DIN format A3 (297 x 420 mm)
Video output format	Bitonal, grayscale (256 levels), 24 bit colour
Optical resolution	600 dpi
Options	Soft IPC
Dimensions (H x W x D)	342 x 690 x 500 mm
Weight	35 kg
Typical daily throughput	8,000 pages (8,500 hours MTBF)

The fi-5750C offers the user superior handling capabilities with ultrasonic double feed detection as standard, and a set of image enhancement features like deskew (ensuring that documents that aren't placed in a straight edge format are straightened when scanned) and autocropping (ensuring that if mixed documents are scanned, only the scanned area will appear on screen). The fi-5750C has a 100% straight paper path and it can conveniently be maintained by any user.

With its new feeding mechanism, the fi-5750C is capable of automatically and without error feeding mixed paper batches ranging from very thin paper (minimum 41 g/m<sup>2</sup>) up to very thick paper (maximum 203 g/m<sup>2</sup>). This capability minimises the need for an operator's intervention to eliminate paper jams, or to prepare paper in uniformly sorted batches.

Since the fi-5750C's feeding mechanism picks the paper from the bottom of the paper stack, the operator can continuously feed the paper even while the scanner is operating, thereby optimising the scanner's productivity.

The ADF (as shown below) can be turned around a full 180 degrees. Moreover, the operator can choose a side or middle position to adapt the scanner to specific space requirements and to left or right handed operation. For the first time a scanning device designed for up to production level volume meets ergonomic desires and needs.

Bundled with this scanning solution comes a full version of Adobe® Acrobat® 6.0 Standard. As an option to increase scanning productivity for batch scanning, Fujitsu's Soft IPC is available.





### **fi-4860C Ultra**

Fujitsu's fi-4860C Ultra scanner offers the user scanning speeds of 60 ppm in both mono and colour and 120 ipm in duplex functionality (all speeds quoted are at 200 dpi in portrait mode).

A high throughput of 10,000 documents per day is achievable through the large 500 sheet hopper, that can handle mixed documents from A7 up to A3 size at resolutions of up to 400 dpi, manual feeding is also possible.

The fi-4860C Ultra is an extremely compact scanner with a small footprint, measuring only 70 cm by 52 cm (width x depth) and has a foldable hopper and stacker.

#### **fi-4860C Ultra Specifications**

Scanning speed – simplex – mono	60 ppm (at 200 dpi, DIN A4, portrait)
Scanning speed – simplex – colour	60 ppm (at 200 dpi, DIN A4, portrait)
Scanning speed – duplex – mono	120 ipm (at 200 dpi, DIN A4, portrait)
Scanning speed – duplex – colour	120 ipm (at 200 dpi, DIN A4, portrait)
Document feeding mode	ADF and manual feed
ADF capacity	500 sheets
Interface	Ultra Wide SCSI
Document size – ADF minimum	DIN format A7 (74 x 105 mm)
Document size – ADF maximum	DIN format A3 (297 x 420 mm)
Video output format	Bitonal, grayscale (256 levels), 24 bit colour
Optical resolution	400 dpi
Options	Pre and Post Imprinter
Dimensions (H x W x D)	523 x 520 x 431 mm
Weight	45 kg
Typical daily throughput	10,000 pages

The fi-4860C Ultra comes equipped with ultrasonic double-feed detection technology, which helps prevent lost images and enables larger batches of mixed document types to be scanned quickly, reliably and automatically. The fi-4860C Ultra is additionally equipped with infrared and length sensors which also detect double feeds.

The fi-4860C Ultra offers the user hardware based deskew and auto cropping functionality. Deskew ensures that if documents are not placed in a straight edge format, they are straightened up as they are scanned. Auto cropping means that if mixed size documents are scanned, only the exact scanned area will appear on screen.

The fi-4860C Ultra offers the user two imprinter options (front side and pre/post) and also has enhanced dynamic paper feeding that enables the scanning of ultra thin paper.

With an Ultra Wide SCSI interface a Third Party interface slot and up to 256 MB of memory the fi-4860C Ultra is aimed at both document and data capture applications providing exceptional image quality and a great cost/performance ratio.





## fi-4990C

The fi-4990C scans single or double sided documents in full 24 bit colour at resolutions of up to 400 dpi. Aimed at applications with daily colour scanning volumes from 5,000 documents a day up to 30,000 documents a day and beyond, the fi-4990C provides industry leading technology for the most demanding and versatile document imaging applications. The colour scanning speeds of 85 A4 pages per minute at 200 dpi in simplex mode and 130 images per minute in duplex mode combined with Fujitsu's proven "dynamic feeding" technology, sets new standards for high volume colour document scanning.

### fi-4990C Specifications

Scanning speed – simplex – mono	85 ppm (at 200 dpi, DIN A4, portrait)
	85 ppm (at 150 dpi, DIN A4, portrait)
Scanning speed – duplex – mono	170 ipm (at 200 dpi, DIN A4, portrait)
	170 ipm (at 150 dpi, DIN A4, portrait)
Scanning speed – simplex – colour	85 ppm (at 200 dpi, DIN A4, portrait)
	85 ppm (at 150 dpi, DIN A4, portrait)
Scanning speed – duplex – colour	130 ipm (at 200 dpi, DIN A4, portrait)
	170 ipm (at 150 dpi, DIN A4, portrait)
Document feeding mode	ADF and manual feed
ADF capacity	1000 sheets
Interface	Ultra Wide SCSI or Third party slot
Document size – ADF minimum	DIN format A7 (74 x 105 mm)
Document size – ADF maximum	DIN format A3 (297 x 420 mm)
Video output format	Binary, grayscale (256 levels), 24 bit colour
Optical resolution	400 dpi
Options	Endorser
Dimensions (H x W x D)	540 x 590 x 690 mm
Weight	65 kg
Typical daily throughput	24,000 pages (7,500 hours MTBF)

## M4099D

Fujitsu's M4099D scanner delivers the right combination of speed, performance and convenience for the ultimate in production-level document imaging capabilities.

Aimed for both document and data-capture applications where upwards of 10,000 documents a day are scanned the M4099D sets the standard with revolutionary paper handling techniques such as dynamic feeding.

Perfect for high performance environments, the M4099D scans at 90 ppm A4 in simplex mode and 180 ppm in duplex. Paper sizes up to A3 size can be accommodated and the scanner delivers excellent image quality at resolutions of up to 400 dpi.

The M4099D comes with a standard high volume 1,000 sheet input hopper for unsurpassed convenience. The scanner also has both resilient and easy to replace separation rollers and consumables, which contribute to its low cost of ownership and easy maintenance.



### M4099D Specifications

Scanning speed – simplex – mono	90 ppm (at 200 dpi, DIN A4, portrait/landscape)
Scanning speed – duplex – mono	180 ipm (at 200 dpi, DIN A4, portrait/landscape)
Document feeding mode	ADF and manual feed
ADF capacity	1000 sheets
Interface	SCSI & Video & Third party slot
Document size – ADF minimum	DIN format A7 (74 x 105 mm)
Document size – ADF maximum	DIN format A3 (297 x 420 mm)
Video output format	Binary, grayscale (256 levels)
Optical resolution	400 dpi
Pre-installed	IPC-3D Board
	1) IPC functions: Dither pattern download, Automatic binarisation, Automatic separation between photographs and text, Zooming 25% to 100% by 1% steps, Outline extraction, Image emphasis, Mirror image, Reverse image, Clipping
	2) DTC functions: Spot noise removing, Dynamic threshold, Gamma curve correction, Filtering
	Threshold curve selection, Smoothing
Options	Endorser
Dimensions (H x W x D)	540 x 590 x 690 mm
Weight	65 kg
Typical daily throughput	24,000 pages (7,500 hours MTBF)



## fi-60F – new product

Capable of scanning single documents one at a time quickly and easily, the fi-60F from Fujitsu is a flatbed only scanner that is ultra compact (measuring only 40 x 145 x 234 mm) and incredibly easy to use. Documents up to A6 size can be scanned in either colour, grayscale or mono in less than 2 seconds including preparation, scanning, image enhancement and presentation. The fi-60F is aimed at vertical markets such as banking and finance, medical, tourism, immigration and postal services – anywhere where there is a need for scanning documents such as passports, IDs, prescriptions and driving licenses.



Even with the lid opened, documents are automatically scanned, de-skewed and cropped to their actual size, regardless of how they are placed onto the flatbed. The scanner can be conveniently controlled through most document management systems with the integrated TWAIN or ISIS driver and can be interfaced with most operating systems that are USB 2.0 capable.

### fi-60F Specifications

Scanning speed – grayscale/mono	1 second per A6 document (at 200 dpi)
Scanning speed – colour	1.3 seconds per A6 document (at 150 dpi)
Scanning mode	Flatbed only
Interface	USB 2.0
Document size	Maximum A6 (105 x 148 mm)
Video output format	1 bit mono, 8 bit grayscale, 24 bit colour
Optical resolution	50 to 600 dpi
Dimensions (H x W x D)	40 x 145 x 234 mm
Weight	0.9 kg

## fi-5000N – new product

The fi-5000N network adapter for document scanners expands the possibilities of utilising the benefits of professional scanning systems in the workgroup arena. Especially Fujitsu's document scanner models fi-4120C2, fi-4220C2 and fi-4530C can be accessed by multiple users without limitation of functionality. Moreover, access becomes easy, safe and secure.

### Expanding Scanner utilisation

With the fi-5000N utilising the attached document scanner from two directions becomes available:

#### 1. Scan-to-Network

In this scenario the scanning process is initiated from the scanner side. The user walks up to the fi-5000N and authorises himself with his fingerprint, thus activating a pre-defined scanning profile (resolution, orientation, target format, target folder). Then he places his original documents onto the scanner's feeder or flatbed and presses the scan button on the scanner panel. The scan job is automatically processed.

#### 2. Pull-from-Network

Multiple users can access the fi-5000N attached scanner just as if it were directly connected to their PC. Dedicated tasks like archiving can be achieved with little operational change. The user addresses the scanner from within his regular DMS application and defines the scanning parameters as required. Then he places the documents onto the scanner's feeder and activates the scanner by placing his finger on the fi-5000N fingerprint scan unit. The scanning process begins and the resulting files are routed through to the initiating application.

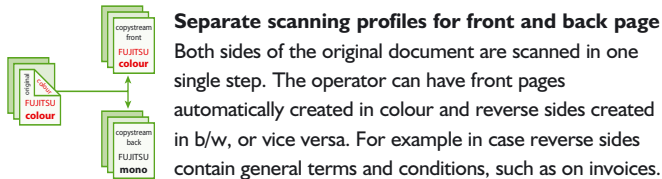
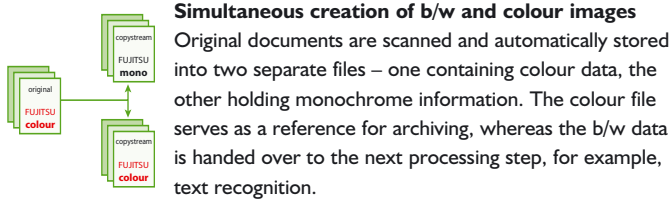


### fi-5000N Specifications

Supported document scanners	Fujitsu models fi-4120C, fi-4220C, fi-4120C2, fi-4220C2, fi-4530C, fi-5110C
Scanning speed	Supports up to 70 images per minute (A4 portrait, 200 dpi colour, JPEG)
User access	Fingerprint / Keypad
Transmission method	Scan-to-network: TWAIN-API, ISIS-API Pull-from-network: TWAIN, ISIS
Scanner interface	USB 2.0
Network interface	100BASE-TX / 10BASE-T
Power consumption	8 W
Dimensions (H x W x D)	64 x 127 x 176 mm
Weight	0.8 kg

## Fujitsu Soft IPC V2.5 – new product version

Soft IPC V2.5 is an optional software image enhancement tool for Fujitsu workgroup or departmental scanners. Alongside TWAIN or ISIS drivers it automatically performs advanced binarisation processes and produces b/w and colour images simultaneously.



### Automatically optimised monochrome scanning

Soft IPC V2.5 provides pre-defined templates that can be used for most common document types. For example, if text documents are to be scanned, fixed threshold function is available. There is no need to interfere with any other settings. In comparison, mixed document content consisting of photos and text might require more adjustment possibilities, especially if OCR is to be applied afterwards. This is why there are appropriate templates like OCR DTC or random dither, leaving open the opportunity to change dither, gradation, threshold, brightness and contrast values.

When batch scanning of documents is a regular task, Fujitsu Soft IPC V2.5 significantly increases productivity.

### Soft IPC V2.5 Specifications

Supported Fujitsu document scanners	fi-5110C, fi-4120C, fi-4220C, fi-4120C2, fi-4220C2, fi-4530C, fi-5650C, fi-5750C. TWAIN only: fi-4010CU, ScanPartner fi-4010 Office, fi-4340C
Necessary drivers	Twain version 9.16.123 or ISIS version after 01/2005
Functions with TWAIN driver only	b/w and colour image simultaneously / individual b/w or colour for front and reverse side / 24 bit colour
Functions with TWAIN and ISIS drivers	Fixed Threshold / OCR DTC (Pre Filtering/Gradation/Threshold Table/ Smoothing/Noise Removal) / Form DTC (Sensitivity/Threshold) / Dither (Dither pattern/Outline detect threshold/Brightness/Contrast) / Minimise Average Error (Outline detect threshold/Brightness/Contrast) / Random Dither (Based Dither/Gradation/Outline detect threshold/Brightness/Contrast)

Supported operating systems: Windows 98 SE, Windows Me, Windows 2000 Professional, Windows XP

## SCANNER FUNCTIONS & OPTIONS

### Interface – SCSI, USB, Video:

All our scanners with the exception of ScanSnap-*IIplus*, fi-4010 Office and fi-5110C (USB 2.0 only) come with a standard SCSI interface. The fi-4120C2, fi-4220C2, fi-4340C, fi-4530C, fi-5650C, fi-5750C also feature a selctable USB 2.0 interface if required. The M4099D has a dual interface allowing either SCSI-2 or video controllers to be used.

The fi-4340C, fi-5750C, fi-4860C Ultra, fi-4990C and M4099D feature a TP-IF slot, the fi-4340C offers an optional video interface to replace the standard SCSI option through the third party interface slot. The fi-4860C Ultra and fi-4990C have an Ultra Wide SCSI interface.

### Dropout colour scanning:

The fi-5110C, fi-4120C2, fi-4220C2, 620C, fi-4340C, fi-4530C, fi-5650C, fi-5750C, fi-4860C Ultra, fi-4990C and M4099D are equipped with a colour CCD. The dropout colours green, red and blue may be selected easily via software.

### Double feed/Ultrasonic double feed detection:

This function allows the scanner to stop in the case of a double feed. Available on fi-5110C, fi-4120C2, fi-4220C2, fi-4340C, fi-4990C and M4099D. Ultrasonic double feed detection is available on the fi-4530C, fi-5650C, fi-5750C and fi-4860C Ultra.

### Drivers:

TWAIN and ISIS drivers are available for all Fujitsu scanners with the exception of ScanSnap-*IIplus*, which is controlled uniquely by ScanSnap Manager. For the model ScanPartner fi-4010 Office only TWAIN driver is available.

### Imprinter:

An optional imprinter for the fi-4120C2, fi-4340C, fi-4530C, fi-5650C and fi-4860C Ultra, and an optional endorser for the M4099D and fi-4990C series, enables printing of up to 40 characters (30 characters on the M4099D and fi-4990C) or an index on the back of scanned documents. This additional data security is required in areas such as banking and insurance.

# SPECIFICATIONS

	ScanSnap Iiplus	fi-4010 Office	fi-5110C	fi-4120C2	fi-4220C2	620C	fi-4530C	fi-4340C	fi-5650C	fi-5750C	fi-4860C Ultra	fi-4990C	M4099D	fi-60F	
Scanning speed	Simplex (mono)	Speed at 200 dpi, DIN A4, landscape (ppm)													
		15	10	15	25	25	20	35	40	55 *1	55 *1	60	85	90	
Duplex (mono)	Speed at 200 dpi, DIN A4, portrait (ppm)	Speed at 200 dpi, DIN A4, portrait (ppm)													
		30		30	50	50		35	76	110 *1	110 *1	120	170	180	
Simplex (colour)	Speed at 200 dpi, DIN A4, portrait (ppm)	Speed at 200 dpi, DIN A4, portrait (ppm)													
		15	3.3	15	25 *2	25 *2	7	16	35	55 *1	55 *1	60	85 *2		
Bundled with Adobe Acrobat version	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0		
Duplex scanning	•														
Document feeding mode	Automatic Document Feeder (ADF)	•													
	Flatbed	•													
ADF capacity	50	25	50	50	50	50	100	100	200	200	500	1000	1000		
Double feed detection feature	•														
Ultrasonic double feed detection feature	•														
Interface (see description inside)	USB 2.0	USB 1.1	USB 2.0	SCSI-2/ USB 2.0	SCSI-2/ USB 2.0	SCSI-2	SCSI-2/ USB 2.0	SCSI-2/ TP-F	SCSI-2/ USB 2.0	SCSI-2/ USB 2.0	UW-SCSI/ TP-IF	UW-SCSI/ TP-IF	SCSI/Video/ TP-IF	USB 2.0	
Image reproduction (all models have black/white output)	Grayscale (256 levels)	•													
	Colour (1-pass)	•													
Light source (dropout colour)	White lamp	• *3													
Document size	ADF Min.	A6	A8	A8	A8	A7	A8	A8	A8	A8	A7	A7	A7		
	52.5 x 74 mm (A8)	•													
	74 x 105 mm (A7)	•													
	105 x 148.5 mm (A6)	•													
	50.8 x 50.8 mm	•													
ADF Max.	DIN format	A4	A4	A4	A4	A4	A4	A3	A4	A3	A3	A3	A3	A6	
		•	•	•	•	•	•	•	•	•	•	•	•	•	
	210 x 297 mm (A4)	•													
	297 x 420 mm (A3)	•													
Optical resolution (dpi)	ADF/FB (where applicable)	600	600	600	600	600	600x1200	600	600	600	600	400	400	600	
Resolution (dpi)	(interpolated)	600													
Standard equipment	Operator panel	•													
	Special halftone pattern "Error Diffusion"	•													
	Paper counter	•													
	Data compression	•													
	Image emphasis	•													
	Image Memory	16 MB			16 MB	16 MB	256 KB	32 MB	32 MB	256 MB	256 MB	256 MB	256 MB	32 MB	
Options	Image Processing Module (IPC-3D)	•													
	Image Processing Module (IPC-4D)	•													
	Soft IPC V2.5	•			•		•		•		•				
	Memory Compression Module (JPG)	•													
	Video Interface	•													
	Endorser/Imprinter	•			•		•	•	•	•	•	•	•		
	Document background selectable	•			•		•	•	•	•	•	•	•		
Recommended paper weight	41-203 g/m <sup>2</sup>	•													
	52-127 g/m <sup>2</sup>	•													
	52-105 g/m <sup>2</sup>	•													
Weight (kg)	2.5	4.9	2.7	3.5	8	10	8.5	15	17	35	45	65	65	0.9	
Power consumption	220 V - 240 V ± 10% 50/60 Hz (VA)	<28		28	34	36	<57	<120	<216	<216	<200	<250	<250		
ENERGY STAR® / Power consumption in energy save mode		<8		•/6	•/6		<12	•/12	•/6	•/12	•/15	•/12	•/12		
Noise level (dBA)	Stand-by	46													
	Scan Mode	40			40	40	40	40	40	40	40	40	40	40	
Dimensions	Height (mm)	150	179	130	158	229	166	193	220	293	342	523	540	40	
	Width (mm)	284	445	293.5	301	302	570	399	556	639	690	520	590	145	
	Depth (mm)	146	304	166	168	569	350	225	423	428	500	431	690	234	
Recommended daily throughput (max)	5,000 h (MTBF)	35													
	8,500 h (7,500 h M4099D and fi-4990C) (MTBF)	500													
				500	1000	1000		2500	4000	8000	8000	10000	24000	24000	

\*1 Same scanning speed at 300 dpi

\*2 Colour scanning speed at 150 dpi

\*3 Dropout colour green, red, blue selectable

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