

Imaging Scanner

**RICOH**  
imagine. change.

**RICOH**  
fi-8150, fi-8250,  
fi-8170, fi-8270,  
fi-8190, fi-8290

☑ Scanner



As the evolution of the market's leading image scanners, the Ricoh fi-8000 series redefines the standard for business scanning by solving today's challenges and providing a long-term strategic advantage for organisations adapting to the future of work. Boasting breakthrough optical technology and a wide range of innovative new patents, the Ricoh fi-8000 series supports digital transformation with industry-leading accuracy and user experience, built on technology you can trust.



### Redefining the standard for business scanning

The evolution of the market's leading image scanners, the Ricoh fi-8000 series delivers state-of-the-art technology designed to address today's business challenges and drive sustainable value creation.

Our ground-breaking Clear Image Capture produces image quality that surpasses other available technologies, resulting in industry-leading OCR accuracy rates. PaperStream IP software optimises output files for faster, lower cost operations. Plus, the fi-8000 series can easily capture the widest range of document types – from 20gsm to 465gsm, cards or booklets up to 7mm thick.

The innovations we have made to the world's most trusted scanning solution deliver a product you can rely on, now and into the future. The result is reduced power consumption and state-of-the-art Automatic Separation Control that consistently delivers the perfect feed. Meanwhile, Intelligent Sonic Paper Protection (iSOP) and the world's-first Image Monitoring technology combine for the safe capture and protection of passports, booklets or mixed batches even when labels or photos are attached.

A 100 sheet ADF and 90ppm duplex scanning speed combined with many marginal process gains mean the Ricoh fi-8000 series delivers real-world productivity without equal. Overscan Control and enhanced multifeed detection prevent stoppages from misfeeds, jams or skews, while post-scan filing time is also reduced. And with no need to prepare different document types in separate batches, a fast start-up time and centralised remote scanner monitoring and management, users benefit from uninterrupted operation, maximum uptime and an unsurpassed user experience.

Long-term strategic advantage is also made a reality. Organisational intelligence is enhanced by the scalable, automated capture of richer, more diverse data sets, making the Ricoh fi-8000 series the perfect partner to support the evolution of the digital transformation journey, from the early to advanced stages.



## Market defining performance

### Clear Image Capture

Clear Image Capture is a breakthrough proprietary technology innovation debuting in the Ricoh fi-8000 series. True image rendering and colour shift prevention deliver industry leading OCR accuracy rates and image quality that surpasses the capabilities of standard CIS or CCD alone. And, as a more efficient optical technology, power consumption for every scan is reduced.

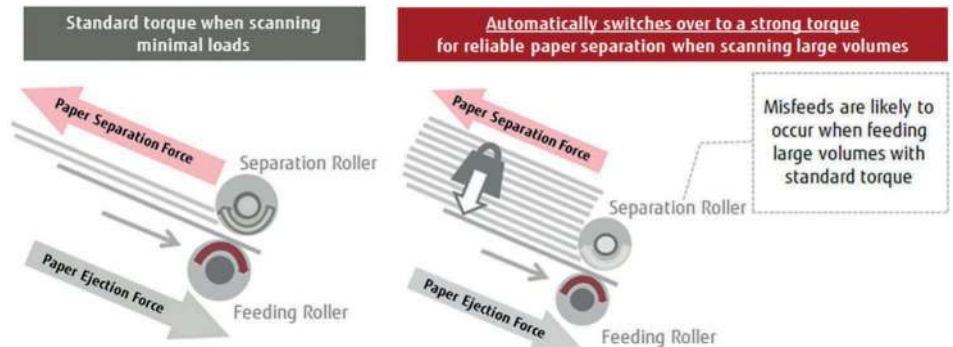
Clear Image Capture also enables capture of the widest range of document types from 20gsm-465gsm – including A4 envelopes, cards, passports, or booklets up to 7mm thick.

## Tech you can trust

### Automatic Separation Control

Our patented Automatic Separation Control delivers the perfect feed so organisations can scan larger volumes and mixed batches of documents with confidence.

By sensing their weight and adapting and adjusting torque automatically, mis-feed and mid-scan interruptions are eliminated. This guarantees feed stability for different document formats and saves users from wasting time sorting different document types into individual batches. It also enables the 100 sheet ADF capacity and higher speeds for more efficient, high-throughput workgroup scanning.



### Industry-leading paper protection

The Ricoh fi-8000 series protects documents from damage using innovative new technology.

Patented Image Monitoring identifies overly skewed documents in real time and halts the scanning process before they can be damaged. iSOP (excluding fi-8150, fi-8250 models) will do the same if it detects any abnormal feed sounds.

While lag detection ensures documents are feeding through at the expected speed.

### Specialist passport capture capability

The patented feeding mechanism ensures safe capture of passports without a carrier sheet, while MRZ recognition ensures consistently accurate capture of personal data.<sup>†</sup>

## Real-world productivity without equal

### Enhanced multi-feed detection

Unnecessary stoppages in the scanning process are eliminated by automatically recognising and ignoring cards, stickers, and small defined attachments. This patented technology is an evolution beyond standard multi-feed detection which stops when anything beyond a single sheet is identified during feed through.

### High speed, high throughput

Fast boot time and up to 90ppm duplex mean the Ricoh fi-8000 series delivers a highly efficient scanning process for the ultimate in workgroup productivity. Incorporating USB 3.2 and gigabit LAN connectivity also makes rapid file transfer possible.

### Overscan Control\*

Automatically adjust scanning area to prevent image loss on skewed documents, removing the need to ever have to rescan slightly skewed documents. Three precisely positioned sensors detect document edges and adjust the scanning area accordingly to fit the document, even if it has been inserted at a skewed angle. Users can scan safe in the knowledge that the entire document will be scanned every time and no part of the image will ever be lost. \*Excluding fi-8150, fi-8250 models.

### Urethane rollers

Urethane rollers are resistant to absorption of oil from NCR paper, unlike EPDM rollers which can swell and affect feed torque. Maintaining their integrity avoids misfeed and jams for consistent feed performance.

### Stacker support

Ergonomically designed stacker support neatly stacks scanned documents for faster, easier post-scan filing.

## PaperStream IP

A scanner driver that cleans and optimises image files for faster, lower-cost access and storage.

- TWAIN and ISIS compliant scanner driver
- Industry leading integrated image enhancement capabilities
- Patch code and barcode recognition
- Pre-defined and custom scanning profiles for routine tasks
- Supports the user when needed with visual guidance through "Assisted Scan"
- Auto cropping, auto deskew, auto colour detecting, auto blank page detection and deletion

## PaperStream Capture

Streamlines and automates capture into workflows.

## PaperStream ClickScan

Ad-hoc scanning with a single touch.

## Scanner Central Admin

Scalable real-time, remote management of up to 1,000 scanners.

## PaperStream IP Net

For flexible, adaptable capture architectures.

## PaperStream NX Manager

For centralised, server-based capture.

# Specifications

For full specifications : [www.pfu-emea.ricoh.com](http://www.pfu-emea.ricoh.com)

| Model                                      |                                              | fi-8150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | fi-8250                                                                                                                                           | fi-8170                                                                                          | fi-8270                                                                                          | fi-8190                                                                                          | fi-8290                                                                                          |
|--------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Scanner Type                               |                                              | Automatic Document Feeder (ADF) / Manual Feed, Duplex WORKGROUP Scanner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Automatic Document Feeder (ADF) / Flatbed / Manual Feed, Duplex WORKGROUP Scanner                                                                 | Automatic Document Feeder (ADF) / Manual Feed, Duplex WORKGROUP Scanner                          | Automatic Document Feeder (ADF) / Flatbed / Manual Feed, Duplex WORKGROUP Scanner                | Automatic Document Feeder (ADF) / Manual Feed, Duplex DEPARTMENTAL Scanner                       | Automatic Document Feeder (ADF) / Flatbed / Manual Feed, Duplex DEPARTMENTAL Scanner             |
| ADF Capacity                               |                                              | 100 x A4 80 g/m <sup>2</sup> / 100 x Letter 20 lb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |
| Scanning Colour Modes                      |                                              | Colour, Greyscale, Monochrome, Automatic (Colour / Greyscale / Monochrome detection)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |
| Optical Resolution                         |                                              | 600 dpi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 600 dpi                                                                                                                                           | 600 dpi                                                                                          | 600 dpi                                                                                          | 600 dpi                                                                                          | 600 dpi                                                                                          |
| Scanning Speed (A4 Portrait)               | Scanning Speed (A4 Portrait) @ 200 / 300 dpi | Simplex: 50 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Simplex: 50 ppm                                                                                                                                   | Simplex: 70 ppm                                                                                  | Simplex: 70 ppm                                                                                  | Simplex: 90 ppm                                                                                  | Simplex: 90 ppm                                                                                  |
|                                            |                                              | Duplex: 100 ipm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Duplex: 100 ipm                                                                                                                                   | Duplex: 140 ipm                                                                                  | Duplex: 140 ipm                                                                                  | Duplex: 180 ipm                                                                                  | Duplex: 180 ipm                                                                                  |
| Media Support                              | Standard Sizes                               | A4, A5, A6, B5, B6, Business Card, Post Card, Letter, Legal and Custom Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |
|                                            | Custom Sizes                                 | Minimum: 48 x 50 mm (1.9 x 2.0 in.) Maximum: 216 x 355.6 mm / A4 Portrait (210 x 297 mm), Legal (8.5 x 14 in.) / Maximum paper feeding width: 240 mm (9.5 in.)                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |
|                                            | Paper Weight                                 | 20 g/m <sup>2</sup> - 465 g/m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20 g/m <sup>2</sup> - 465 g/m <sup>2</sup>                                                                                                        | 20 g/m <sup>2</sup> - 465 g/m <sup>2</sup>                                                       | 20 g/m <sup>2</sup> - 465 g/m <sup>2</sup>                                                       | 20 g/m <sup>2</sup> - 465 g/m <sup>2</sup>                                                       | 20 g/m <sup>2</sup> - 465 g/m <sup>2</sup>                                                       |
|                                            | Card Scanning                                | Card with the size specified in ISO7810 (85.6 mm x 53.98 mm) with a thickness of 1.4 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |
| Special Media Types                        |                                              | +Passport scanning: Carrier Sheet required (ISO/IEC 7810 ID-3 compliant passport with thickness 7 mm or less when opened including Carrier Sheet)                                                                                                                                                                                                                                                                                                                                                                                                             | +Passport scanning: Carrier Sheet required (ISO/IEC 7810 ID-3 compliant passport with thickness 7 mm or less when opened including Carrier Sheet) | Passport scanning (ISO/IEC 7810 ID-3 compliant passport with thickness 7 mm or less when opened) | Passport scanning (ISO/IEC 7810 ID-3 compliant passport with thickness 7 mm or less when opened) | Passport scanning (ISO/IEC 7810 ID-3 compliant passport with thickness 7 mm or less when opened) | Passport scanning (ISO/IEC 7810 ID-3 compliant passport with thickness 7 mm or less when opened) |
| Image Processing Functions                 |                                              | Advanced DTC, Automatic Colour Detection, Automatic Profile Selection, Automatic Rotation, Background Pattern Removal, Blank Page Detection, Character Extraction, Cropping, Custom Rotation, De-Screen, De-Skew, Dither, Dropout Colour (None / Red / Green / Blue / White / Saturation / Custom), Dynamic Threshold (IDTC), Edge Fill, Edge Repair, Error Diffusion, Front Back Merging, Halftone, Hole Punch Removal, Image Emphasis, Index Tab Cropping, Multi Image Output, SDTC, Split Image, sRGB Output, Static Threshold, Vertical Streaks Reduction |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |
| Output Filetypes                           |                                              | PDF, Searchable PDF, PDF/A, TIFF, Multi-Page TIFF, Bitmap, JPEG, JPEG2000, PNG, Word, Excel, PowerPoint (Varies by application)                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |
| Local Interface                            | USB Port                                     | USB 3.2 Gen 1/3.0 / 2.0 / 1.1 (Type-B Connector)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |
| Ethernet Specification                     |                                              | 10BASE-T/100BASE-TX/1000BASE-T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |
| Power Requirements                         |                                              | 100V - 240V AC ±10 % (50 / 60 Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |
| Power Consumption                          | Operating Mode                               | 21 W or less<br>17 W (Eco Mode)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 21 W or less<br>17 W (Eco Mode)                                                                                                                   | 28 W or less<br>17 W (Eco Mode)                                                                  | 28 W or less<br>17 W (Eco Mode)                                                                  | 30 W or less<br>17 W (Eco Mode)                                                                  | 30 W or less<br>17 W (Eco Mode)                                                                  |
|                                            | Sleep Mode                                   | 2.0 W or less (LAN) *When the EEE function (Power saving Ethernet) of the AP or router is enabled 1.4 W or less (USB)                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |
|                                            | Standby Mode                                 | 0.2 W or less                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.2 W or less                                                                                                                                     | 0.2 W or less                                                                                    | 0.2 W or less                                                                                    | 0.2 W or less                                                                                    | 0.2 W or less                                                                                    |
| Device Dimensions (Height x Width x Depth) |                                              | 300 mm x 170 mm x 163 mm<br>11.81" x 6.69" x 6.42"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 300 mm x 577 mm x 234 mm<br>11.81" x 22.72" x 9.21"                                                                                               | 300 mm x 170 mm x 163 mm<br>11.8" x 6.7" x 6.4"                                                  | 300 mm x 577 mm x 234 mm<br>11.8" x 22.7" x 9.2"                                                 | 300 mm x 170 mm x 163 mm<br>11.8" x 6.7" x 6.4"                                                  | 300 mm x 577 mm x 234 mm<br>11.8" x 22.7" x 9.2"                                                 |
| Device Weight (approx)                     |                                              | 4.0 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8.8 kg                                                                                                                                            | 4.0 kg                                                                                           | 8.8 kg                                                                                           | 4.0 kg                                                                                           | 8.8 kg                                                                                           |
| Environmental & Regulatory Compliance      |                                              | ENERGY STAR® / RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |
| Software                                   |                                              | PaperStream Capture / PaperStream ClickScan / PaperStream NX. Manager (available as download)<br>Software Operation Panel / Error Recovery Guide / Scanner Central Admin / fi Series Online Update / ABBYY FineReader for ScanSnap (available as download)                                                                                                                                                                                                                                                                                                    |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |
| 1 Year Standard Warranty                   |                                              | Advance Exchange Next Business Day. Valid for 1 year from date of scanner purchase. Includes replacement of defective product and two-way shipping costs. Included in the price of a new scanner product                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                   |                                                                                                  |                                                                                                  |                                                                                                  |                                                                                                  |

All names, manufacturer names, brand and product designations are subject to special trademark rights and are manufacturer's trademarks and/or registered brands of their respective owners. All indications are non-binding. Technical data is subject to change without prior notification.

**PFU (EMEA) Limited**  
Belmont  
Belmont Road  
Uxbridge, UB8 1HE  
United Kingdom  
Tel: +44 (0)20 8573 4444

**PFU (EMEA) Limited**  
Tower 2  
Mies-van-der-Rohe Straße 8  
80807 München  
Germany  
Tel: +49 (0)89 32378 0

**PFU (EMEA) Limited**  
Viale Monza, 259  
20126 Milano (MI)  
Italy  
Tel: +39 02 26294 1

**PFU (EMEA) Limited**  
Camino Cerro de los Gamos, 1  
28224 Pozuelo de Alarcón  
Madrid  
Spain  
Tel: +34 91 7849000

[www.pfu-emea.ricoh.com](http://www.pfu-emea.ricoh.com)

**RICOH**  
imagine. change.