

RICOH fi-8820

Datasheet

Scanner



Unlock work efficiency with ultra-fast scans to endure daily duties

- High speed and volume scanning to endure daily duties
- Unlocking work efficiency of job operators
- Usability-first design for smooth operation

Enhanced productivity, ideal for large daily duties

The fi-8820 achieves a scanning speed of 120 ppm/240 ipm (A4 landscape, color, 200/300 dpi), and is highly optimized for centralized scanning.

Increase work efficiency with exceptionally accurate feeding

Offering a novel function, the scanner realizes stable paper feeding performance, even for high-volume scanning with a mixed batch. To prevent stapled documents, which are easy to overlook from being damaged when batch scanning, Stapled Documents Detection detects stapled documents regardless of where the staple position is and stops document feeding immediately.

Designed to prioritize operator usability

The scanner can handle a wide variety of documents. The Dual Path Mechanism enables switching of the ejecting paths. Documents up to 1.25 mm, such as cardboard envelopes can be scanned with Straight

Scan, while the U-turn Scan enables continuous scanning for standard documents. Manual Feed Mode scans bi-folded and multi-layered documents as is.

The paper ejection control after scanning has been well-improved. Even when scanning at higher speed, documents are neatly stacked in order, since the scanner quickly controls the paper output speed by identifying each document's size and position. With the improved ejecting abilities, even folded or curled documents, which tend to cause paper jams at the paper outlet, are handled smoothly. Operators can collect scanned documents without fuss or hassle.

The scanner also comes with a 4.3-inch touch screen for easier operation, and it supports LAN and USB 3.2 connectivity.

Effective data utilization combined with the PaperStream Series

The scanner driver, PaperStream IP, automatically produces clear image data and supports OCR accuracy. The powerful capture software PaperStream Capture efficiently feeds information into organization workflow by automatically utilizing data extracted from barcodes and zonal OCR, further streamlining mundane tasks.

Technical Information

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|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Scanner Type | ADF (Automatic Document Feeder)/Manual Feed, Duplex |
| Scanning Speed*1 (A4 Landscape) (Color*2/Grayscale*2/ Monochrome*3) | Simplex: 120 ppm (200/300 dpi) Duplex : 240 ipm (200/300 dpi) |
| Scanning Speed*1 (A4 Portrait) (Color*2/Grayscale*2/ Monochrome*3) | Simplex: 95 ppm (200/300 dpi) Duplex : 190 ipm (200/300 dpi) |
| Image Sensor Type | CIS x 2 (front x 1, back x 1) |
| Light Source | RGB LED x 4 (front x 2, back x 2) |
| Optical Resolution | 600 dpi |
| Output Resolution*4 (Color/Grayscale/ Monochrome) | 50 to 600 dpi (adjustable by 1 dpi increments), 1,200 dpi (driver)*5 |
| Output Format | Color: 24-bit, Grayscale: 8-bit, Monochrome: 1-bit |
| Background Colors | White/Black (selectable) |
| Document Size | |
| Maximum | 304.8 x 431.8 mm (12 x 17 in.) |
| Minimum | 48 x 70 mm (1.9 x 2.8 in.) |
| Long Page Scanning*6 | 6,096 mm (240 in.) (up to 200 dpi) |
| Paper Weight (Thickness) | |
| Straight Scan | |
| Larger than A5 and up to A4 Size | 20 to 570 g/m ² (5.3 to 152 lb) |
| A5 or Smaller and Over A4 Size | 40 to 570 g/m ² (11 to 152 lb) |
| Envelope | 1.25 mm or less |
| U-turn Scan | |
| Larger than A5 and up to A4 Size | 20 to 209 g/m ² (5.3 to 56 lb) |
| A5 or Smaller Size | 64 to 209 g/m ² (17 to 56 lb) |
| Over A4 Size | 64 to 256 g/m ² (17 to 68 lb)*7 |
| ADF Capacity*8 | 500 sheets (A4 80 g/m ² or Letter 20 lb) Total thickness: less than 53 mm |
| Expected Daily Volume*9 | 100,000 sheets |
| Multifeed Detection | Overlap detection (Ultrasonic sensor), Length detection |
| Paper Protection | Stapled Documents Detection, Lag detection |
| Interface | |
| USB | USB 3.2 Gen1/USB 3.0/USB2.0/USB1.1 |
| Ethernet | 10BASE-T/100BASE-TX/1000BASE-T |
| Power Requirements | AC 100 to 240 V ±10% |

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| Power Consumption | |
| Operating Mode | 70 W or less/40 W or less (Eco mode) |
| Sleep Mode | 2.5 W or less |
| Auto Standby (Off) Mode | 0.2 W or less |
| Operating Environment | |
| Temperature | 5 to 35°C (41 to 95°F) |
| Relative Humidity | 15 to 80% (non-condensing) |
| Environmental Compliance | ENERGY STAR, RoHS |
| Dimensions*10 (Width x Depth x Height) | 460 x 430 x 315 mm (18.1 x 16.9 x 12.4 in.) |
| Weight | 23 kg (50.7 lb) |
| Supported Operating System | Windows 11*11, Windows 10*11, Windows Server 2022, Windows Server 2019, Windows Server 2016 |
| Software/Drivers | PaperStream IP Driver (TWAIN/TWAIN x64/ISIS), WIA Driver*12, PaperStream Capture, PaperStream ClickScan*13, Software Operation Panel, Error Recovery Guide, Scanner Central Admin Server, Scanner Central Admin Desktop |
| Image Processing Functions | Multi image output, Automatic color detection, Blank page detection, Static threshold, Dynamic threshold (iDTC), Advanced DTC, SDTC, Error diffusion, Dither, De-Screen, Emphasis, Dropout color (None/Red/ Green/Blue/White/Saturation/Custom), sRGB output, Hole punch removal, Cropping, Index tab cropping, Split image, De-Skew, Edge correction, Vertical streaks reduction, Character extraction, Background pattern removal, Automatic profile selection |
| Included Items | AC cable, AC adapter, USB 3.0 cable, Setup DVD-ROM |

Options

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|----------------------------------------------|--------------|---------------------------------------------|
| RICOH fi-890PRF | PA03830-D301 | Front-side printing on document |
| RICOH fi-890PRB | PA03830-D303 | Back-side printing on document |
| Carrier Sheets | PA03360-0013 | Each package contains 5 carrier sheets |
| Photo Carrier Sheets | PA03770-0015 | Each package contains 3 carrier sheets |
| PaperStream Capture Pro Scan Station (MV) | PA43404-A695 | PaperStream Capture Pro optional license |

Consumables

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|------------------|--------------|-------------------------------------------------------------------|
| Pick Roller | PA03830-K021 | Every 700,000 sheets or one year |
| Separator Roller | PA03830-K022 | Every 700,000 sheets or one year |
| Brake Roller | PA03830-K023 | Every 700,000 sheets or one year |
| Print Cartridge | CA00050-0262 | 4,000,000 printed characters or 6 months after opening the bag |

*1 Scanning speeds may vary due to the system environment. For details, please visit our website at: <https://www.pfu.ricoh.com/global/scanners/fi/>. *2 Indicated speeds are from using JPEG compression. *3 Indicated speeds are from using TIFF CCITT Group 4 compression. *4 When scanning in high resolutions (600 dpi or above), scanning may be rejected depending on scanning mode, document size, memory size, and application program. Selectable maximum resolution may vary depending on the length of the scanned document. *5 Limitations may apply to the size of documents that can be scanned, depending on system environment, when scanning at high resolution (over 600 dpi). *6 The maximum document length for long page scanning depends on the resolution: 5,461 mm (215 in.) for up to 300 dpi, 4,064 mm (160 in.) for up to 400 dpi, 863.6 mm (34 in.) for up to 600 dpi, and 431.8 mm (17 in.) for up to 1,200 dpi. *7 Scanning of documents from 209 to 256 g/m² (56 to 68 lb) is supported only when the temperature is 25±5°C (77±9°F) and humidity is 50±10%. *8 Maximum capacity depends on paper weight and may vary. *9 Numbers are calculated using scanning speeds and typical hours of scanner use, and are not meant to guarantee daily volume or unit durability. *10 With the ADF hopper closed. *11 fi Series scanners do not run with Windows 11 and 10 ARM-based PCs. *12 Functions equivalent to those offered by PaperStream IP may not be available with the WIA Driver. *13 Refer to the fi Series Support Site for driver/software downloads and full lineup of all supported operating system versions.

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Safety Precautions

Be sure to carefully read all safety precautions prior to using this product and use this device as instructed. Do not place this device in wet, moist, steamy, dusty or oily areas. Using this product under such conditions may result in electrical shock, fire or damage to this product. Be sure to limit the use of this product to listed power ratings.

ENERGY STAR

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