Image Scanner
Document Scanner

fi-8820

Maximize ROI with speed and performance

RICOH
imagine. change.



The RICOH fi-8820 production scanner is purpose-built to deliver sustained performance for fully optimized throughput.

Easier, faster scanning at the touch of a button

Reduce the amount of time spent loading and waiting for documents to scan. Faster scans and fewer loads mean money saved.

- 120 pages per minute (letter/A4) /240 images per minute (letter/A4)
- 500 sheets
- Daily Volume: 100,000 sheets
- Touchscreen and button interface

Optimized document feeding without disruption

Spend less time and resources re-scanning documents. Put your trust in a reliable, durable scanning solution to finish the job faster.

- Stapled Documents Detection: Detects staples on the page, regardless of location.
- Paper Ejection Control: Improves document ejection, handling, and workflow.
- Straight Path Scan Capabilities: Accounts for thick or cumbersome documents or envelopes at the flip of a switch, minimizing process interruptions

Industry-leading image quality

Capture images clearly, quickly, and correctly to maintain data accuracy. With our proprietary image software, the fi-8820 ensures that you meet compliance requirements and your deadline.

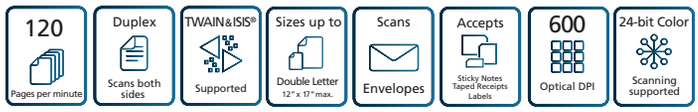
- Clear Image Capture: Produces clear images for data extraction
- PaperStream IP: Processes images for optimal image correction
- PaperStream ClickScan: simplifies scanning with 3-steps: scan, select destination & save.
- PaperStream Capture: Processes and sorts batches efficiently and automatically
- OverScan Control: Detects skewed documents and adapts to capture all data and avoid image loss

Why RICOH fi-8820?

Make an investment in your organization's operational success. The fi-8820's large-capacity automatic document feeder and high-speed scanning let you tackle big tasks with ease and efficiency.

Our accurate, reliable document-feeding technology protects paper documents and ensures complete, accurate capture. The fi-8820 is the scanning solution that comes with a side of peace of mind.

RICOH fi-8820



Technical Information

Scanner Type	ADF (Automatic Document Feeder)/Manual Feed, Duplex
Scanning Speed[*1] (Landscape) (Color[*2]/Grayscale[*2]/ Monochrome[*3])	Simplex: 120 ppm (200/300 dpi) Duplex : 240 ipm (200/300 dpi)
Scanning Speed[*1] (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	12 x 17 in (304.8 x 431.8 mm)
Minimum	1.9 x 2.8 in (48 x 70 mm)
Long Page Scanning[*6]	240 in (6,096 mm) (up to 200 dpi)
Paper Weight (Thickness)	
Straight Scan	
Larger than A5 and up to A4 Size	5.3 to 152 lb (20 to 570 g/m^2)
A5 or Smaller and Over A4 Size	11 to 152 lb (40 to 570 g/m^2)
Envelope	.05 in or less
U-turn Scan	
Larger than A5 and up to A4 Size	5.3 to 56 lb (20 to 209 g/m^2)
A5 or Smaller Size	17 to 56 lb (64 to 209 g/m^2)
Over A4 Size	17 to 68 lb (64 to 256 g/m^2)* [*7]
ADF Capacity[*8]	500 sheets (Letter 20 lb or A4 80 g/m^2) Total thickness: less than 3.15 in
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%
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

Ethernet connection requires PC running specified software

Operating Environment	
Temperature	41 to 95°F (5 to 35°C)
Relative Humidity	15 to 80% (non-condensing)
Environmental Compliance	ENERGY STAR®, RoHS, Epeat Gold
Dimensions[*10] (Width x Depth x Height)	18.1 x 16.9 x 12.4 in (460 x 430 x 315 mm)
Weight	50.7 lb (23 kg)
Supported Operating Systems	Windows® 11[*11], Windows® 10[*11], Windows Server® 2025, 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, PaperStream Central Admin
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
Trade Compliant	Yes
Warranty	3 Months Basic Onsite Service
Included Items	AC cable, AC adapter, USB 3.0 cable, Setup DVD-ROM

Industry-leading support keeps digital transformation projects on-time and on budget
• U.S. based support • Specialized Teams • Flexible service programs

Service Programs & Options

Post-Imprinter Front with Install	CG01000-310114	Front side post-scan printing on document
Post-Imprinter Back with Install	CG01000-310115	Back side post scan 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 Premium	PSC-PREM-1Y PSC-PREM-3Y PSC-PREM-5Y	PaperStream Capture Pro Premium 1-Year Subscription PaperStream Capture Pro Premium 3-Year Subscription PaperStream Capture Pro Premium 5-Year Subscription
Basic Onsite Service	S8820-BAMYNBD-3	3-year scanner contract with parts, maintenance, labor, 1 cleaning visits per year and next business day response time
ScanCare Onsite Service	S8820-SCMYNBD-3	3-year scanner contract with parts, maintenance, labor, 3 preventative maintenance visits per year, and next business day response time

Consumables

Pick Roller	PA03830-K021	Every 700,000 sheets [*14]
Separator Roller	PA03830-K022	Every 700,000 sheets [*14]
Brake Roller	PA03830-K023	Every 700,000 sheets [*14]
Print Cartridge	CA00050-0262	4,000,000 printed characters
ScanAid Kit	CG01000-310112	Consumable kit with instructions and cleaning supplies

Insist on Genuine Ricoh Service to keep your scanner running at its best

[*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: 215 in (5,461 mm) for up to 300 dpi, 160 in (4,064 mm) for up to 400 dpi, 34 in (863.6 mm) for up to 600 dpi, and 17 in (431.8 mm) for up to 1,200 dpi . [*7] Scanning of documents from 56 to 68 lb (209 to 256 g/m^2) is supported only when the temperature is 77±9°F (25±5°C) 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. [*14] Replacement cycles are guidelines for using A4 documents (80 g/m2 [20 lb]). These cycles vary depending on the type of documents scanned, how often the scanner is used and cleaned, and your operating environment.

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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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