

RICOH fi-8170 Datasheet

Scanner



Efficiency at new heights with evolved feeding

- Reliable.
- Quality images.
- Paper handling.

State-of-art feeding technology - streamline workflow

In the "Manual Feed Mode", the fi-8170 scans copy forms and passports or booklets up to thicknesses of 7 mm without the carrier sheet. Precise multi-feed detection on a wide range of documents like plastic cards and documents with attachments, enable continual scanning with the same profiles. In addition, the "Automatic Separation Control" optimizes paper feed to match the number of sheets loaded, preventing interruptions. "Image Monitoring" also performs checks, real-time, for image skews, and provides enhanced paper protection.

Optimized high-quality images

The fi-8170 comes with "PFU Clear Image Capture", a unique and dedicated image correction technology that generates unparalleled, high-definition images while keeping power consumption to the minimum. Three sensors detect tips of documents to assure accurate image data without defects and prevents image loss.

Better usability and flexibility for any environment

The fi-8170 supports multiple operation modes according to users' environments, may that require sharing among teams with PC-less colleagues, or LAN connectivity and USB 3.2.

The flexibility to use with imprinter options opens up the capability for total document management and assists in document archiving requirements that are prevalent in many industries.

Efficiency optimized, simplicity achieved, with expanded software functionalities

The scanner driver, PaperStream IP, comes with a simplified, user-friendly interface that provides icon visibility for easy setting configurations. Users can consistently achieve scanned outputs of correct orientations with the "Automatic Rotation" function, and store frequently scanned documents in specific formats using the "pattern matching" method. Efficiency with simplification brings users, a reduction to operation time as well - on frequent and routine operations like deleting blank pages, or correcting page orientations, just by following the optimal settings suggested by the "Settings Assistant" on the integrated PaperStream Capture software. Documents can be retrieved more efficiently with the "PDF keyword setting" function, instead of being constrained to file names alone.

Technical Information

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|---|---|
| Scanner Type | ADF (Automatic Document Feeder) / Manual Feed, Duplex |
| Scanning Speed*1 (A4 Portrait) (Color*2/Grayscale*2/ Monochrome*3) | Simplex: 70 ppm (200/300 dpi) Duplex : 140 ipm (200/300 dpi) |
| Image Sensor Type | CIS x 2 (front x 1, back x 1) |
| Light Source | RGB LED x 2 (front x 1, back x 1) |
| 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*6 | 215.9 x 355.6 mm (8.5 x 14 inch) |
| Minimum | 48 x 50 mm (1.9 x 2 inch) |
| Long Page Scanning*7 | 6,096 mm (240 inch) |
| Paper Weight (Thickness) | |
| Paper | 20 to 465 g/m2 (5.3 to 124 lb)*8 |
| Booklet | Less than 7 mm (0.276 inch)*9 |
| Plastic Card | 1.4 mm (0.055 inch) or less*10 |
| ADF Capacity*11*12 | 100 sheets (A4 80 g/m2 or Letter 20 lb) |
| Expected Daily Volume*13 | 10,000 sheets |
| Multifeed Detection | Overlap detection (Ultrasonic sensor), Length detection |
| Paper Protection | Image monitoring, Sound detection (iSOP)*14 |
| Interface | |
| USB | USB 3.2 Gen1x1 / USB 2.0 / USB 1.1 |
| Ethernet | 10BASE-T, 100BASE-TX, 1000BASE-T |
| Power Requirements | AC 100V - 240V 50/60 Hz |
| Power Consumption | |
| Operating Mode | 28 W or less / 17 W (Eco mode) |
| Sleep Mode | 2.0 W or less (LAN) / 1.4 W or less (USB) |
| 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) |

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| Environmental Compliance | ENERGY STAR®, RoHS |
| Dimensions*15 (Width x Depth x Height) | 300 x 170 x 163 mm (11.8 x 6.7 x 6.4 inch) |
| Weight | 4 kg (8.8 lb) |
| Supported Operating System | Windows 11*16, Windows 10*16, Windows Server 2025, Windows Server 2022, Windows Server 2019, Windows Server 2016, macOS*17, Linux (Ubuntu)*17 |
| Software / Drivers*19 | PaperStream IP Driver (TWAIN/TWAIN x64/ISIS), WIA Driver*18, Image Scanner Driver for macOS (ICA)*18, Image Scanner Driver for Linux (SANE)*18, PaperStream Capture, PaperStream ClickScan, Software Operation Panel, Error Recovery Guide, ABBYY FineReader for ScanSnap™, PaperStream Central Admin |
| Image Processing Functions | Multi image output, Automatic color detection, Blank page detection, 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, Index tab cropping, Split image, De-Skew, Edge filler, Vertical streaks reduction, Background pattern removal, Cropping, Static threshold |
| Included Items | ADF paper chute, AC cable, AC adapter, USB cable, Setup DVD-ROM |

Options

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|---------------------------------|--------------|---|
| Post Imprinter (FI-819PRB) | PA03810-D201 | Prints on the back of the document |
| Carrier Sheets | PA03360-0013 | Pack of 5 sheets |
| Photo Carrier Sheets | PA03770-0015 | Pack of 3 sheets |
| Booklet Carrier Sheets | PA03810-0020 | Pack of single sheet |
| PaperStream Capture Pro | PA43404-B403 | One year license of PaperStream Capture Pro |
| PaperStream Capture Pro Premium | PA43404-B421 | One year license of PaperStream Capture Pro Premium |

Consumables

| | | |
|-----------------|--------------|------------------------------|
| Brake Roller | PA03810-0001 | Every 200,000 sheets*20 |
| Pick Roller | PA03670-0002 | Every 200,000 sheets*20 |
| Print Cartridge | CA00050-0262 | 4,000,000 printed characters |

*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 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 Maximum document width possible for scanning is 240 mm (9.5 inch). *7 For use with PaperStream NX Manager, the maximum resolution supported is 400 dpi, with maximum lengths ranging with resolution. Simplex: 1,828.8 mm (72 in.) [below 300 dpi], 355.6 mm (14 in.) [below 400 dpi]. Duplex: 863.6 mm (34 in.) [below 300 dpi], 355.6 mm (14 in.) [below 400 dpi]. *8 Thicknesses of up to 128 to 209 g/m² (34 to 56 lb) can be scanned for A8 (52 x 74 mm / 2.1 x 2.9 inch) sizes. *9 Indicated thickness is inclusive of Booklet Carrier Sheet thickness when using the Carrier Sheets. *10 Continuous feeding is supported when scanning up to 10 unembossed cards with thicknesses of 0.76 mm or less. *11 Maximum capacity depends on paper weight and may vary. *12 Capable of setting additional documents while scanning. *13 Numbers are calculated using scanning speeds and typical hours of scanner use, and are not meant to guarantee daily volume or unit durability. *14 Intelligent Sonic Paper Protection. *15 Excludes the ADF paper chute and stacker. *16 fi Series scanners do not run with Windows 11 and 10 ARM-based PCs. *17 Supports only USB connections. *18 Functions equivalent to those offered by PaperStream IP may not be available with the Image Scanner Driver for macOS/Linux or WIA Driver. *19 Refer to the fi Series Support Site for driver/software downloads and full lineup of all supported operating system versions. *20 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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Safety Precautions

Please carefully read the safety precautions prior to the use of this device and follow the recommended instructions for correct use. Do not place this device in wet, moist, highly humid, dusty or oily areas. Use of this device under such conditions may result in electrical shock, fire or damage to the device. Please use this device within the power ratings listed.

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