Image Scanner

RICOH SP-2230N

Datasheet

Scanner



Perfectly balancing quality and affordability

Product Overview

Businesses today face growing pressure to do more with less—yet everyday document tasks still consume valuable time. The RICOH SP-2230N delivers efficient, reliable scanning for everyday business needs, helping cost-conscious organizations simplify routine scanning so staff spend less time on administrative work and more time on productive tasks. It offers an excellent balance of performance, quality, and value.

Trusted Scanning Performance for Everyday Documents

Built on proven RICOH fi Series technology, trusted scanning performance ensures safe and consistent handling of everyday business docu- ments. Built-in document protection helps reduce the risk of document damage during scanning, while the scanner handles a wide range of materials—from receipts and plastic cards to folded A3 documents.

Advanced Accuracy and Image Quality

Advanced image processing delivers consistently clear, high-quality scans that support accurate data capture. Industry-leading OCR accuracy enables faster data extraction and helps reduce manual correction, improving overall processing efficiency. Powered by PFU's Clear Image Capture technology, the scanner applies intelligent image processing—including automatic paper size detection, automatic rotation, and blank page removal—to produce cleaner documents and smoother workflows.

Simple and Easy Digitization for Faster Daily Work

One-click scanning makes everyday digitization effortless. With enhanced PaperStream ClickScan, users can scan instantly from a right-click menu or the on-device button, supporting efficient and intuitive operation aligned with different workflow needs.

PC-less scanning for Maximum Flexibility

With the DirectScan function[(1)(2)], users can scan directly from the device without connecting to a PC, enabling PC-less scanning and direct attachment of scanned files to emails—ideal for shared office environments.

(1) Certain features will become available in upcoming updates.
(2) A PC is required to configure scanner settings.

Technical Information

Scanner Type	ADF (Automatic Document Feeder)/Manual Feed, Duplex
Scanning Speed[*1] (A4 Portrait) (Color[*2]/Grayscale[*2]/ Monochrome[*3])	Simplex: 30 ppm (200/300 dpi) 13 ppm (400/600 dpi) Duplex : 60 ipm (200/300 dpi) 26 ipm (400/600 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	
Background Colors	Color: 24-bit, Grayscale: 8-bit, Monochrome: 1-bit
Document Size	White
Maximum[*6]	215.9 x 355.6 mm (8.5 x 14 in.)
Minimum	50.8 x 50.8 mm (2.0 x 2.0 in.)
Long Page Scanning[*7]	6,096 mm (240 in.) (up to 200 dpi)
Paper Weight (Thickness)	
Paper	27 to 413 g/m² (7.2 to 110 lb)[*8]
Plastic Card[*9]	1.4 mm (0.055 in.) or less
ADF Capacity[*10][*11]	80 sheets (A4 80 g/m² or Letter 20 lb)
Expected Daily Volume[*12]	4,500 sheets
Multifeed Detection	Overlap detection (Ultrasonic sensor), Length detection
Paper Protection	Image monitoring
Interface	
USB	USB 3.2 Gen1x1/USB 3.0/USB 2.0/USB 1.1 (Connector Type: Type-C)
Ethernet	10BASE-T, 100BASE-TX, 1000BASE-T
Power Requirements	AC 100 to 240 V ±10%
Power Consumption	
Operating Mode	15 W
Sleep Mode	1.4 W or less (LAN)/1.0 W or less (USB)
Auto Standby (Off) Mode	0.1 W or less
Operating Environment	
Temperature	5 to 35°C (41 to 95°F)
Relative Humidity	15 to 80%

Environmental Compliance	ENERGY STAR, RoHS, EPEAT
Dimensions[*13] (Width x Depth x Height)	292 x 163 x 150 mm (11.5 x 6.4 x 5.9 in.)
Weight	3.3 kg (7.3 lb)
Supported Operating System	Windows 11[*14], Windows 10[*14], Windows Server 2025, Windows Server 2022, Windows Server 2019, Windows Server 2016, Linux (Ubuntu)[*15]
Software/Drivers[*16]	PaperStream IP Driver (TWAIN/TWAIN x64/ISIS), WIA Driver[*17], Image Scanner Driver for Linux (SANE)[*17] PaperStream Capture Series, PaperStream ClickScan, Searchable PDF Option, Software Operation Panel, Network Setup Tool, Error Recovery Guide, PaperStream Central Admin, SP Series Online Update, Manual Installer
Image Processing Functions[*18]	Multi image output, Automatic color detection, Blank page detection & deletion, Dynamic threshold (iDTC), Advanced DTC, SDTC, Error diffusion, Dither, Static threshold, De-Screen, Emphasis, Dropout col- or (None/Red/Green/Blue/White/Saturation/Custom), sRGB output, Hole punch removal, Split image, De-Skew, Edge filler, Edge repair, Vertical streaks reduction, Cropping, Automatic rotation, Barcode detection (1D&2D), Background pattern removal, Front/Back merging
Included Items	ADF paper chute, AC cable, AC adapter, USB 2.0 cable

Options

Carrier Sheets	PA03360-0013	Pack of 5 sheets
Photo Carrier Sheets	PA03770-0015	Pack of 3 sheets
PaperStream Capture Pro	PA43404-B403	One year license
PaperStream Capture Pro Premium	PA43404-B421	One year license

Consumables

Brake Roller	PA03880-0001	Every 200,000 sheets[*19]
Pick Roller	PA03880-0002	Every 200,000 sheets[*19]

*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 Some 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 in). *7 The capable scanning size varies depending on the resolution. *8 Thicknesses of 128 to 209 g/m² (34 to 56 lb) can be scanned for A8 (52 × 74 mm / 2.1 × 2.9 in.) sizes. Documents with a paper weight over 209 g/m² (56 lb) can only be fed one sheet at a time. *9 Compliant with ISO7810 ID-1 type. All cards, including embossed and non-embossed types, are in landscape orientation. *10 Maximum capacity depends on paper weight and may vary. *11 Capable of setting additional documents while scanning. *12 Numbers are calculated using scanning speeds and typical hours of scanner use, and are not meant to guar- antee daily volume or unit durability. *13 Excludes the ADF paper chute and stacker. *14 Supports ARM-based Windows 11 PCs with the 32-bit version of the PaperStream IP (TWAIN) driver only. Not supported on ARM-based Windows 10 PCs or with the PaperStream IP (ISIS) driver. *15 Supports only USB connections. *16 Refer to the SP Series Support Site for driver/software downloads and full lineup of all supported operating system versions. *17 Functions equivalent to those offered by PaperStream IP may not be available with the Image Scanner Driver for Linux or WIA Driver. *18 Some DirectScan functions may vary from those listed *19 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
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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