

Aficio® 3228C/3235C/3245C

**High Performance,
All-in-One Color Solutions
for Small to Medium Workgroups**

P R I N T

C O P Y

S C A N

F A X

RICOH®

Multifunction system with speed, quality and efficiency.

3228C/3235C/3245C

Best-in-Class, Full-Color MFP with Unrivaed Speed, Image Quality and Cost Efficiency

Ricoh continues to redefine the Color MFP market with a revolutionary series of versatile, network-ready Digital Color Multifunctional Systems. The **Ricoh Aficio 3228C/3235C/3245C** Series represents the very best in design innovation, delivering exceptional performance on an award-winning platform. Indeed, the exciting Aficio 3228C/3235C/3245C Series combines the essentials in full-color and black & white imaging, with versatile functionality consolidating printing and copying into one device...while also providing cost-free, secure, color scan-to document distribution.

The Ideal Business Partner

Designed for organizations seeking an intelligent solution to daily document processing tasks, the Aficio 3228C/3235C/3245C Series does it all – from high-impact, full-color printing and copying to convenient e-mail communication. These modular systems can also be optionally equipped to serve as high-speed fax terminals, allowing just one device to easily take the place of aging single-function equipment and earlier-generation monochrome MFPs.

Exceptional Versatility

Whether printing or copying reports, mailers, brochures, newsletters or photo-filled manuals, the Aficio 3228C/3235C/3245C Series delivers fast output speeds, superb black & white and brilliant color image quality, and for that professional touch, a choice of finishing options, including a saddle-stitch booklet maker. Add countless productivity, paper handling, connectivity and security features, and you have a true "solution," one that is engineered to support the varied application demands of your busy workgroups.



The Aficio 3228C/3235C/3245C Series is exceptionally versatile and is equipped with countless productivity and security features.



Engineered to Empower

Offering best-in-class performance, the Aficio 3228C/3235C/3245C Series supports fast **28/35/45 ppm black output speeds** and robust **color speeds of 24/28/35 ppm**. Reducing wait time to the absolute minimum, the Aficio 3228C and 3235C offer **8/10 second black & white/full-color first-page-out** times, with the Aficio 3245C clocking in at just **6-/8-seconds**. An optimized **600 MHz controller** and **80GB hard drive** support outstanding throughput speeds, so you are assured of maximum productivity as the 3228C/3235C/3245C Series efficiently tackles your most demanding jobs.

Amazing Color Says it All

The Aficio 3228C/3235C/3245C Series takes your business to the next level with **brilliant full-color imaging** of your short-run print, copy and scan jobs...capturing the essence of every brochure, proposal or storyboard. And the **new PxP™ Color Toner** formulation creates smaller, more uniform particles that yield high-impact, consistently vibrant colors and crisp monochrome copies and prints.

Large, Expandable Paper Supply

A **substantial 1,100-sheet standard paper supply** is comprised of **two 500-sheet trays** and a versatile **100-sheet bypass**. Designed to handle diverse workgroup needs, users can print and copy onto plain paper up to **12" x 18"** (for 11" x 17" full-bleed output), and onto a wide range of media types. To meet the needs of higher volume sites, add one or two additional 500 sheet trays, or even a 2,000-sheet Large Capacity Tray (for a maximum paper capacity of 3,100 sheets), further minimizing work interruptions.

Efficient Document Handling

Ricoh's document feeder efficiently scans your multi-page originals (up to 11" x 17"), through the **standard high-capacity 80-sheet Automatic Reversing Document Feeder (ARDF)**. The flexible ARDF can even handle mixed-sized originals for uniform copy output. Use the 11" x 17" platen glass to copy or scan bound documents, or non-standard paper sizes and weights. With **copy/scan resolutions up to 600 dpi**, and up to **1,200-dpi print resolution**, you'll capture every detail of the most complex color and monochrome documents.

Professional Finishing Options

To help you create professional full-color and black & white documents in-house, without expensive outsourcing or assistance from a busy Central Reproduction Department, Ricoh offers a choice of finishers:

Booklet Finisher folds and saddle-stitches pages to produce professionally finished manuals, mailers, newsletters and more.

2,500-sheet Multi-Tray Finisher collates and staples documents for more traditional finishing needs.

Both finishers can be optionally outfitted with **hole punching** so documents are immediately ready for distribution.



Output onto a variety of paper stocks (including transparencies) and sizes — up to 11" x 17" full bleed — and finish by collating, stapling, hole punching and more.

A Document Processing Powerhouse

Ricoh's standard Document Server Technology, supported by a large 80GB Hard Drive, enables Aficio 3228C/3235C/3245C users to better manage workflow...

- **Store** documents for printing on an as-needed basis. Even apply custom finishing properties to your documents.
- **View** stored documents using DeskTopBinder or Web Image Monitor, then forward, print, archive, etc.
- **Create** new documents by combining multiple stored electronic and scanned hardcopy files into new documents, regardless of file format.
- **Secure** documents by assigning a private PIN code to each stored file.

Unmatched Fax Functionality

The Aficio 3228C/3235C/3245C Series can be upgraded to support network fax (LAN Fax, Internet/IP Fax) and G3 fax functionality, expediting delivery of documents (paper-based or electronic) as hard copy faxes or data files, whichever best suits your needs. Cost-saving, security, and management features abound.

The Essential Color Scan-to Hub

As network-scanning powerhouses, the Aficio 3228C/3235C/3245C Series helps build collaborative workgroups, while reducing costs. With scan speeds of 50 ipm for black & white, 35 ipm for full-color, these versatile systems enable users to...

- **Scan-to-Email** - Deliver scans directly to one or more email inboxes, with support for Lightweight Directory Access Protocol (LDAP), allowing users to quickly search for email destinations in the corporate address book.
- **Scan-to-Folder** - Send scans to up to 50 Windows folders via SMB, or use Scan-to-FTP to bypass the mail server when sending larger files. Both methods allow authorized users to easily share and archive files for improved workgroup collaboration and customer contact.
- **TWAIN Scanning** - Capture images in digital form for further editing back at the host PC, using existing TWAIN-compliant applications.



With versatile print drivers, the first and last pages of the document can be printed as cover sheets and users can select a different paper tray for the rest of the document.

Print Simplicity

With a choice of printer drivers, **PCL 5c/6**, **Ricoh RPCS** (Refined Print Command Stream), and optional genuine **Adobe® PostScript® 3™**, the 3228C/3235C/3245C Series fits into virtually any environment.

RPCS is an easy-to-use, icon-based print driver interface that enables you to apply and save print job settings, including finishing parameters, for one click printing. The genuine Adobe PostScript 3 is available for users with more complex files or for optimized printing of Acrobat PDF files.



Hardcopy Original
Scanned by
Ricoh Aficio 3245C

Security – Make No Compromises

Ricoh's extensive suite of security solutions effectively thwarts any attempt to intercept sensitive data. Our goal: Help organizations establish and maintain a secure MFP infrastructure; one that makes no compromises in the protection of valuable information assets.

User Authentication, a standard feature of the Aficio 3228C/3235C/3245C Series provides four different ways to restrict access to device functions by requiring entry of a valid user name/password or user code.



Administration utilities enable users to monitor the system and specify settings while giving administrators control over permissions, drivers and settings.

The optional **DataOverwriteSecurity System (DOSS)** provides automatic overwriting of the hard drive data after each copy, scan, print, fax or Document Server job, rendering the data unintelligible. The data is overwritten three times, conforming to recommended National Security Agency (NSA) methods for managing classified information.

Locked Print prevents others from reading or removing documents sitting on the output tray by suspending output until the user enters an authorization PIN at the system's control panel.



Easy Device and Document Management

Ricoh's **Web Image Monitor** utility enables users to set output parameters, check toner and paper levels, and even reset the system right from the desktop, all via a standard Web browser. Administrators can specify and edit permissions, security, address book entries, device settings, network protocols and printer and fax parameters, as well as receive low toner/paper and service notifications via e-mail.

Ricoh's **SmartDeviceMonitor** is a comprehensive software suite that resides on the user's PC, enabling convenient monitoring, management and configuration of the Aficio 3228C/3235C/3245C Series from the desktop. Access and change system settings, monitor usage, view system status and more.

DeskTopBinder allows users to view documents in the Document Server, combine multiple stored documents into a new file (regardless of file type or platform used), and apply common finishing options – all without leaving their desks.

Open Architecture Embedded Software Architecture

The Ricoh 3228C/3235C/3245C Series exceeds industry standards with Ricoh's *Embedded Software Architecture™*—an innovative Java (J2ME) compatible software development platform. *Embedded Software Architecture™* allows for the development of key applications that run on Ricoh MFPs and Laser Printers, dramatically enhancing your organization's workflow. The Aficio 3228C/3235C/3245C can easily be customized to meet your needs by controlling features such as the operation panel, printing, saving files, and scanning. For more information on the *Embedded Software Architecture™* platform please visit www.ricoh.com/esa.

YOUR PARTNER IN ENVIRONMENTAL SOLUTIONS

The Energy Star®-compliant Aficio multifunction system continues Ricoh's longstanding commitment to developing office solutions with superior energy- and supply-saving features, including:

- Quick Start-Up (QSU) technology
- Power-saving Sleep modes
- Duplex and Combine Copy modes
- Toner Recycling
- Low-noise levels
- Minimal ozone emissions



Secure, Cost-effective Color Systems Engineered for...
Outstanding Performance
Superb Image Quality
Maximum Reliability

RICOH®

Aficio®

3228C/3235C/3245C

SPECIFICATIONS

General Specifications

Aficio 3228C/Aficio 3235C/Aficio 3245C

Resolution:	Copy: 600 dpi Print: Up to 1,200 x 1,200 dpi Scan: 600 dpi / 256 gradations
Copy Size:	11" x 17" maximum (full bleed on 12" x 18")
Paper Sizes:	First Paper Tray: 8.5" x 11" Second Paper Tray/Paper Bank: 11" x 17", 8.5" x 14", 8.5" x 11", 7.25" x 10.5", 8" x 13", 8.25" x 13", 8.5" x 13" Bypass Tray: 5.5" x 8.5", 12" x 18" Large Capacity Tray: 8.5" x 11" Custom Paper Sizes: Width: 3.5" to 12" (90 - 305mm); Length: 5.8" to 18" (148-457.2mm); 23.6" (600mm) for Fax/Printer; 18" (457.2mm) for Copy/Document Server
Warm-up Time:	Less than 99 seconds
First Copy Time:	3228C/3235C: Black & white: 8 seconds Full-color: 10 seconds 3245C: Black & white: 6 seconds, Full-color: 8 seconds
Copy/Print Speed:	3228C: 28/24 PPM (Black & white/Full-color) 3235C: 35/28 PPM (Black & white/Full-color) 3245C: 45/35 PPM (Black & white/Full-color)
Exposure Glass:	Up to 11" x 17" (sheet/book/object)
Document Feeder:	Automatic Reversing Document Feeder (ARDF) Original Size: Simplex/Duplex: 5.5" x 8.5" to 11" x 17" Original Weight: Simplex: 11 lb. to 34 lb. bond (40 - 128 g/m ²) Duplex: 14 lb. to 28 lb. bond (52 - 105 g/m ²) Stack Capacity: 80 Sheets (20 lb. bond)
Multiple Copies:	Up to 999
Input Capacity:	Standard: 2 x 500 sheets plus 100-sheet bypass tray Maximum: 3,100 sheets
Output Capacity:	Standard: 500 sheets plus 100-sheet face-up output tray Maximum: 2,600 sheets (with Multi Tray Finisher)
Paper Weights:	Trays, Duplex Unit, Paper Banks: 16 to 28 lb. bond (60 - 105 g/m ²) Bypass Tray: 16 lb. bond to 90 lb. index (60 - 163 g/m ²)
Paper Types:	Plain paper, laser printer qualified transparencies, and labels
Reproduction Ratios:	7 reductions and 5 enlargement, 400%, 200%, 155%, 129%, 121%, 100%, 93%, 85%, 78%, 73%, 65%, 50%, 25%
Zoom:	25% - 400% in 1% increments
Auto Duplex:	Standard
Hard Disk Drive:	80GB (2 x 40GB) (shared)
RAM:	1GB (shared)
Dimensions (WxDxH):	26.4" x 27.5" x 33.8" (670 x 698 x 859mm)
Weight:	Approximately 264 lbs. (120kg)
Power Requirements:	120V 12A 60Hz
Power Consumption:	1,440 watts or less
Energy Saver Mode:	45 watts or less

Printer Controller Specifications [Standard]

CPU:	RM7065C 600MHz
RAM:	1GB (shared)
Page Description Languages:	PostScript 3, PCL 6, PCL 5e, PCL 6, PCL 6 (standard); Genuine Adobe PostScript 3 / PDF Direct Print (Optional)
Standard Interfaces:	10BaseT/100BaseTX Ethernet (RJ-45), USB 2.0 High Speed
Optional Interfaces:	IEEE 802.11b Wireless LAN Type H, IEEE 1284 Parallel Type A, IEEE 1394 Type B, and Bluetooth Type 3245
Network/OS:	Windows 95/98SE/ME/NT/2000/XP/Server 2003 NetWare 3.12, 3.2, 4.1, 4.11, 5.0, 5.1, 6 UNIX: Sun Solaris; HP-UX; SCO OpenServer; RedHat Linux; IBM AIX, Mac OS 8.6 - 9.2x, OS X 10.1 or later
Network Protocols:	TCP/IP; IPX/SPX; SMB; AppleTalk (auto switching)
Utilities:	SmartDeviceMonitor for Administrator and Client, Web SmartDeviceMonitor, Web Image Monitor, DesktopBinder Lite, and Printer Utility for MAC (w/ Adobe PostScript option)

Security Specifications

Security Features

DataOverwriteSecurity System (DOSS) Type D: (Optional): Security feature that overwrites latent data on the system's hard drive after copy, scan, fax, and print jobs.

Other Security Features: SNMP v3 Authentication and Data Encryption (password/address book encryption); PDF Direct Print Password Protection; Locked (Secure) Print; User Codes; User Authentication

Scanner Specifications

Scanner Resolution:	Monochrome mode: From 100 dpi to 600 dpi (1,200 dpi for TWAIN) Full-color mode: From 100 dpi to 600 dpi Default setting: 200 dpi
Scanning Speed:	Scan to E-mail / Folder: Monochrome mode: 50 spm Full-color mode: 35 spm Monochrome mode: 36 spm Full-color mode: 20 spm
Scan Area:	Main Scan: 297mm, Sub Scan: 432mm
Scan Size:	Original Sizes: 5.5" x 8.5" to 11" x 17"
Scan Mode:	Standard: B&W Text; B&W OCR; B&W Text/Photo; B&W Photo; B&W Grayscale; Full Color Photo; Full Color Text Optional: Auto Color Selection (with optional File Format Converter)
Image Adjustment:	Brightness; Contrast; Threshold; Gamma Adjustment; Half-tone Pattern
File Formats:	Black and white: TIFF (Single/Multi Page) PDF (Single/Multi Page) JPG (Single Page) Grayscale/Full color: PDF (Single/Multi Page)
Scan-to modes:	Scan-to-E-mail (with LDAP support), Scan-to-Folder (SMB/FTP), Network TWAIN scanning

Document Server Specifications

Capacity:	80GB (2 x 40GB)
Max. Stored Documents:	2,000
Max. Pages/Document:	1,000
Max. Pages of All Stored Documents:	9,000

Facsimile Specifications [Optional]

Fax Unit Type 3245	
Type:	ITU-T G3
Circuit:	PSIN, PBX
Resolution:	200 x 100 dpi; 200 x 200 dpi; 400 x 400 dpi (optional with SAF memory)
Modem Speed:	33,600 bps - 2,400 bps with automatic shift down
Transmission Speed:	2.0 seconds (Based on ITU-T Test chart #1 in standard resolution, JBIG compression)
Scan Speed:	0.86 seconds (A4, any mode)
Compression Method:	MH/MR/MMR/JBIG
Auto Dials:	2,000 Quick Dials; 100 Groups Dials (500 locations each)
Memory Capacity:	4MB (320 pages); Maximum 28MB (2,240 pages)
Additional Modes Supported:	Internet Fax by E-mail (T.37), IP Fax (T.38) LAN Fax, Fax Forwarding to E-mail, Fax Reception notice via E-mail, Fax Transmission notice via E-mail
Options:	Additional G3 Fax Line Type 3245 (up to 2 additional), Fax SAF Memory (32 MB), Handset Type 1018

Hardware Accessories

PS580 1-Tray Paper Bank*	
Paper Size:	5.5" x 8.5" to 11" x 17"
Paper Weight:	16 to 28 lb. bond (60 - 105 g/m ²)
Stack Capacity:	500 sheets
PS590 2-Tray Paper Bank*	
Paper Size:	5.5" x 8.5" to 11" x 17"
Paper Weight:	16 to 28 lb. bond (60 - 105 g/m ²)
Stack Capacity:	2 trays x 500 sheets

PS600 Large Capacity Tray*

Paper Size:	8.5" x 11"
Paper Weight:	16 to 28 lb. bond (60 - 105 g/m ²)
Stack Capacity:	2 tandem trays x 1,000 sheets

FAC28 Cabinet*

*Please note either the Cabinet Stand or one of the paper options must be selected.

PT460 Multi-Bin

Number of Bins:	2 bins
Paper Size:	8.5" x 11" to 11" x 17"
Paper Weight:	16 to 18 lb. bond (60 - 105 g/m ²)
Stack Capacity:	Tray 1: 100 sheets, Tray 2: 250 sheets

SR960 Multi Tray Finisher

Paper Sizes:	8.5" x 11" to 11" x 17"
Paper Weights:	16 to 28 lb. bond (60 - 105 g/m ²)
Stack Capacity:	Upper Tray: 500 sheets (8.5" x 11" or smaller); 250 sheets (11" x 17" or smaller), Lower Tray: Staple: 1,500 sheets (8.5" x 11"); 750 sheets (11" x 17" or smaller) No Staple: 2,000 sheets (8.5" x 11"); 750 sheets (11" x 17" or smaller)
Staple Capacity:	50 sheets (8.5" x 11" or smaller), 30 sheets (8.4" x 14" or larger)
Staple Paper Size:	8.5" x 11" to 11" x 17"
Staple Paper Weight:	17 to 24 lb. (64 - 90 g/m ²)
Staple Position:	1 staple: 3 positions (top, top slant, bottom) 2 staples: 1 position (left 2/top 2)
Stapler Capacity:	5,000 per cartridge

Punch Option Type 1045 available for Multi Tray Finisher

SR950 Booklet Finisher	
Paper Sizes:	8.5" x 11" to 11" x 17"
Paper Weights:	16 to 34 lb. bond (60 - 128 g/m ²)
Stack Capacity:	Non-Staple Sort: 1,000 sheets (letter) Staple Sort: 1,000 Sheets (letter) Folding: 10 sets (6 - 10 sheets/set), 20 sets (2 - 5 sheets/set)
Staple Capacity:	50 sheets 8.5" x 11", 25 sheets larger than 8.5" x 11"
Staple Paper Size:	8.5" x 11" to 11" x 17"
Staple Position:	1 Staple: 2 positions, 2 Staples: 2 positions
Stapler Capacity:	5,000 per cartridge
Booklet Paper Sizes:	8.5" x 11", 8.5" x 14", 11" x 17"
Booklet Paper Weights:	17 to 20 lb. (64 - 80 g/m ²)
Punch Option Type 2238 available for Booklet Finisher	

Additional Accessories

File Format Converter Type B	
Platen Cover Type 3800C	
Key Counter Bracket Type H	
Scanner Accessibility Option Type 3245	

Supplies

Black Toner (Yield: 24,000 @ 5%)	
Cyan Toner (Yield: 10,000 @ 5%)	
Yellow Toner (Yield: 10,000 @ 5%)	
Magenta Toner (Yield: 10,000 @ 5%)	

Waste Toner Bottle

Print speeds may be impacted by network, application or PC performance.

Specifications and external appearances are subject to change without notice.

Products are shown with optional features.

For maximum performance and yield, we recommend using genuine Ricoh parts and supplies.

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RICOH®

Image Communication

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Ricoh Corporation has determined that this product meets the Energy Star® guidelines for energy efficiency.

