

# Ricoh Aficio MP 301SPF

**Multifunction B&W**

Copier    Printer    Facsimile    Scanner



MP 301SPF

31 ppm monochrome

## Sales Information Guide

# Welcome to the MP 301SPF Sales Information Guide.

To see if the MP 301SPF supports a particular feature simply check the Common Features Matrix Chart.

Should you need more information on system capabilities, please refer to the new Common Features Guide, a resource containing detailed technology and feature explanations for all Ricoh Family Group printers, faxes, and MFPs.

The Ricoh Family Group is transitioning to a common product naming convention across all brands.

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## INTRODUCTION

The RICOH® Aficio® MP 301SPF offers powerful productivity enhancements within a small footprint -- at a fast 31 ppm. The new MP 301SPF is a successor to the MP 201SPF, but with higher speed, advanced features to streamline workflow, and a sleek I-Style design. The tiltable 4.3 inch color touch panel display allows for easier access to feature controls for a level of interaction with Ricoh's powerful software solutions usually found in higher volume systems. The unit also offers enhanced security to assist with information security compliance requirements and to help protect customer data. Reduced operating expenses, energy saving features, economical cost per copy, and low total cost of ownership make this MFP system a powerful addition to any organization.

With sophisticated scanning capabilities, the MP 301SPF captures black and white or full color originals easily and allows users to retrieve addresses from the LDAP-registered directories for quick, economical distribution via Scan-to-Email/Folder/SD/USB. The powerful Super G3 fax modem, IP (T.38) and Internet (T.37) faxing helps boost productivity and decrease communication costs.

The MP 301SPF was designed for versatility, enabling users to handle a wide range of tasks with ease. Storage capacity can be expanded to 1,350 sheets for long runs, and the 8 ½ x 14 platen is ideal for copying, scanning, and faxing oversized documents. End users can also take advantage of Ricoh's services-led platform that integrates customized applications with software solutions to maximize workflow and help reduce operating expenses.

### B+W Digital Printing

- Direct (USB 2.0) & Network (RJ-45) 10/100BASE-TX Ethernet interfaces
- Up to 600 x 600 dpi resolution
- Optional Parallel, Gigabit, Wireless LAN, Bluetooth connectivity
- Print-from USB Flash Drive / SD Card w/HDD
- Windows/Mac/UNIX/Citrix

### Super G3 Faxing

- 200 Speed Dials (2,000 w/HDD)
- Fax Forwarding
- 1000 personal user codes
- LAN Fax, IP Fax, Internet Fax, Remote Fax



### Full Color/ B+W Scanning

- Network TWAIN Scanning
- Scan-to-Email/FTP/SMB/NCP/URL
- LDAP Support
- Scan-to-USB Flash Drive / SD Card
- TIFF / JPEG / PDF / High Compression PDF
- 3,000-file Document Server

### B+W Digital Copying

- Scans @ 31-ppm (200 dpi)
- 50-sheet ARDF
- 8.5" x 14" Platen
- 25% – 400% Zoom (1% increments)

**The MP 301SPF exceeds expectations  
without compromising budgets**

## PRODUCT MARKETING/LAUNCH OBJECTIVES

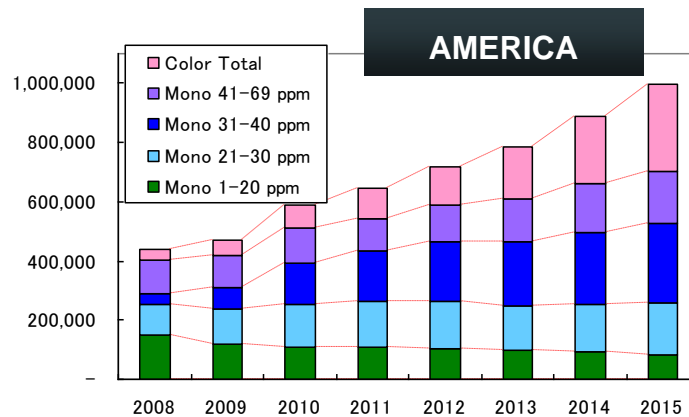
### Market Share

The desktop A4 MFP market is expanding for both Black & White and Color, not only in advanced countries, but in emerging nations as well. While the Color ratio is expanding more rapidly, B/W models will still have a significant impact on the market. Therefore, strengthening the A4 MFP offering is vital to expanding Ricoh's overall market share.

As the A4 market expands, so does the demand for enhanced features within the A4 market. Customers are familiar with the A3 machines but are looking for products that meet their needs including:

- TCO Reduction
- Multiple functions
- Strong device management
- Common functionality with A3 MFPs
- Small footprint and height requirements
- Convenient placement of machines

The MP 301SPF fills the need for a multi-function A4 desktop with a small footprint. Its new 4.3" color touch panel offers the ultimate in customer usability. But, even more important is the growing consumer awareness of Total Cost of Ownership (TCO). Thus, the need for a multi function MFP that offers productivity, cost effectiveness and high quality in one compact desktop is answered with the MP 301.



Data Source; IDC + estimation in MFP Planning section  
Area: US/Canada/Latin America  
Paper Size:A4 Mono/Color  
Price Band: \$1,000+(STP)

## Launch Objectives

The MP 301SPF allows the customer to replace several single function units with one MFP for better productivity and a lower TCO. We can look to expand the market by:

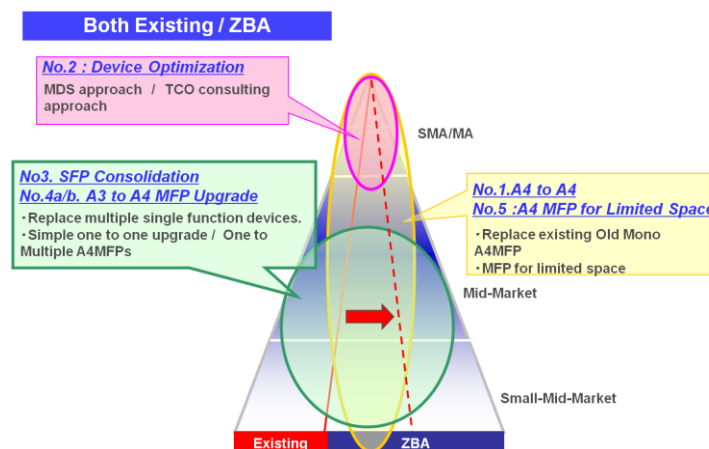
- Replacing competitors' Laser Printers
- Promoting balanced deployment with the A3 market
- Replacing older MIF

With its sophisticated functions, including copy, print, scan and fax, user-friendly touch panel, and high productivity, the MP 301SPF is poised to make a significant impact.

While competitors such as Lexmark, Samsung and HP are focusing on strengthening the A4 market with higher cpm's and enhanced features, one of Ricoh's greatest advantages over competitors is offering multiple products with same solution capabilities. And, while MDS approaches are increasing A4 sales, A3 MFPs can be offered as a balanced development proposal with A4 units.

Since launching its desktop monochrome line ten years ago, Ricoh has placed a vast number of machines in the market. It's time to optimize productivity by replacing those single function units with MFPs. MP 301SPF offers the same footprint but with increased productivity, enhanced features, lower TCO and a variety of user-friendly digital capabilities and advanced options including Super G3 fax capabilities. It can replace a standalone printer and/or fax with the following added benefits:

- Standard network interface.
- Standard Adobe PostScript 3.
- Color Scan to E-mail/Folder and network TWAIN scanning.
- Ability to scan to a USB drive or SD card via the Scan to Media option.
- High-end fax capabilities including LAN-Fax, Internet Fax, IP Fax and Paperless Fax with e-mail notification.
- Advanced print capabilities such as Sample, Locked, Hold, Stored, as well as Store and Print when optional Hard Disk Drive is installed.
- Improved security with Hard Disk Drive Encryption, HDD DataOverwriteSecurity System (DOSS), Locked Print with password protection.



## Marketing Opportunities

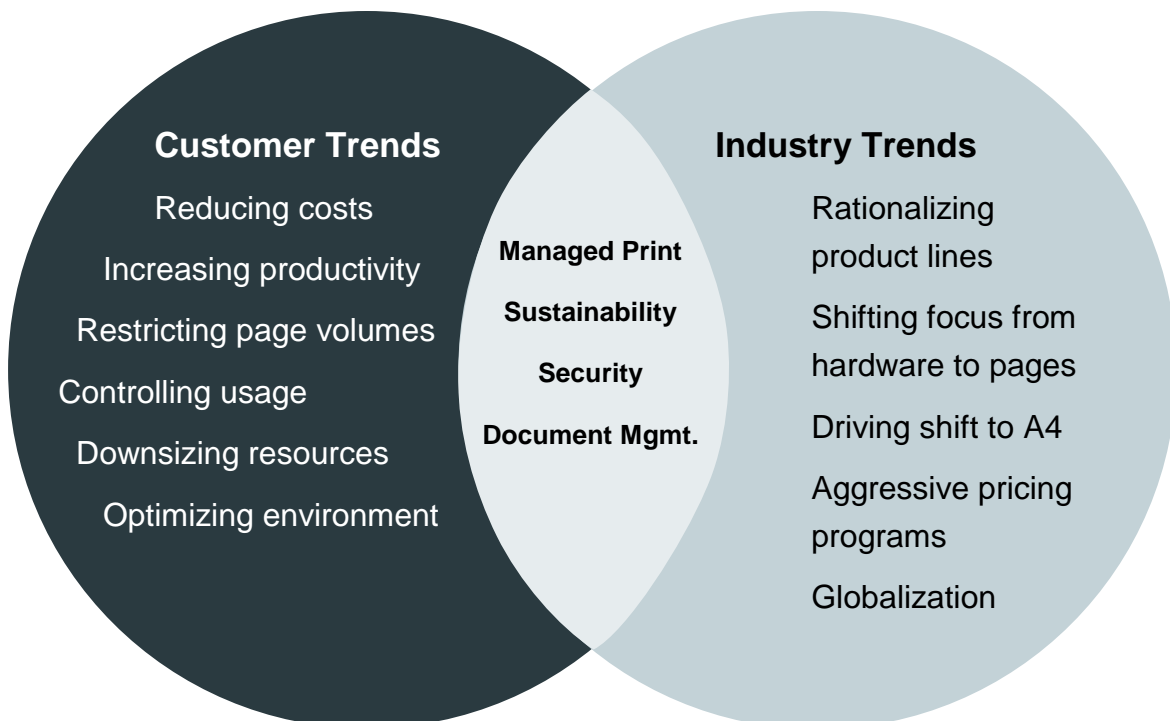
### Opportunities

- New A4 MFP's fill critical holes in Ricoh's MFP portfolio.
- Gartner, IDC and Lyra forecast a developing customer shift towards A4 configurations.
- IDC is forecasting strong growth in A4 segment.
- An IDC report suggests that key verticals such as healthcare, retail and the public sector are responding positively to the A4 MFP's.
- Value proposition of A4 becomes even more compelling in a difficult economy.
- A4 will have a major role in Ricoh's MDS strategy.

### Challenges

- A4 competitors attacking Ricoh A3 MIF.
- IDC predicts more A4 MFP placements will likely be made at the expense of legacy A3 models (Ricoh is A3 market share leader)
- Significant cost disparity between A3 and A4, (A3 costing 5x more), increases challenge to maintain and protect A3 MIF.
- MFP vendors will use A4 as an attempt to win business, especially when proposing a MDS solution.
- Legacy printer vendors (HP, Lexmark, etc.) already have a strong head start.

## Industry Trends



## PRODUCT POSITIONING

With comprehensive and affordable features, the MP 301SPF offers a turnkey solution for every need. It is designed for small to mid-sized businesses as well as workgroups and departments within larger organizations. The MP 301SPF is an excellent choice for businesses seeking versatile monochrome digital copying, network printing, high end fax functionality, plus color image scanning capabilities. Each unit may function as the primary input/output device for a small business, or as part of a fleet of decentralized units within an organization.

Opportunities with Segment 2 customers may eventually become Segment 3, 4, 5 or 6 customers. Cultivating them now ensures that they become loyal customers. The MP 301SPF also offers aggressive pricing, so prospects can make purchasing decisions quickly, which means you can secure more sales in a shorter amount of time.

### Target Markets

- Up to 20 users in a mid to large offices,
- Banks, retail environments, hospitals, satellite offices, schools, universities, and libraries
- Small to large business environments as a personal-use system

### Vertical Market Applications

Vertical Market	High Priority Features/Capabilities
<b>Education</b>	<ul style="list-style-type: none"> <li>• Quota Setting – standard</li> <li>• Print From/Scan-To-USB/SD Card – standard</li> <li>• Automatic Duplexing / N-up – standard</li> <li>• Banner Page Printing – standard</li> </ul>
<b>Library</b>	<ul style="list-style-type: none"> <li>• Print From/Scan-To-USB/SD Card – standard</li> <li>• Split Scan from Book – standard</li> </ul>
<b>Religious</b>	<ul style="list-style-type: none"> <li>• Envelope Printing – standard</li> </ul>
<b>Pharmacies &amp; Copy Shops</b>	<ul style="list-style-type: none"> <li>• Envelope Printing – standard</li> <li>• Customizable Home Screen &amp; Function Keys – standard</li> </ul>
<b>Insurance/Banking/Government/Defense</b>	<ul style="list-style-type: none"> <li>• Data Encryption &amp; Overwrite – standard with HDD option</li> <li>• Unauthorized Copy Control – standard</li> <li>• User Authentication &amp; Tracking – standard</li> <li>• Digitally Signed PDFs</li> <li>• 1,000 User Codes – standard</li> </ul>
<b>Healthcare</b>	<ul style="list-style-type: none"> <li>• Confidential Print – standard</li> <li>• Schedule Print – standard</li> <li>• Data Encryption &amp; Overwrite – standard</li> </ul>
<b>Legal</b>	<ul style="list-style-type: none"> <li>• Classification Code – standard</li> </ul>

## MP 301SPF AT-A-GLANCE



Feature	Print/Scan/Fax
Speed Available	31-ppm (letter)
50-sheet ARDF	Standard
Print/Scan/Fax Connectivity	Standard
PostScript3	Standard
Print-from and Scan-to USB / SD Card	"Scan-to" is Standard/ "Print-from" requires HDD option
PDF Direct Printing	Standard
Memory (Standard./Max.)	1 GB RAM
Scanning Capability	Full Color / Black & White (31-spm)



## WHAT'S NEW AND DIFFERENT

While the MP 201SPF and the MP 301SPF are similar in many respects, there are several areas of difference between the two pairs of machines. Besides speed, volume, and price, there are controller specifications plus scanning, media handling, and output options that are exclusive to each machine that create unique positioning differences and product recommendation guidelines.

### What's New?

MP 301SPF		
<ul style="list-style-type: none"> <li>• MFP Browser</li> <li>• iStyle design Color Scheme</li> <li>• A Customizable Home Screen</li> <li>• External USB Keyboard Support</li> <li>• More User Codes (1000 vs. 500)</li> <li>• Scan to Home Folder over LDAP</li> <li>• Reduce/Enlarge Scan</li> <li>• Scan to PDF-A</li> <li>• Weekly timers for output of fax</li> <li>• Environmental Information Screen</li> </ul>	<ul style="list-style-type: none"> <li>• Enhance Quota Management</li> <li>• Import/Export of Preferences</li> <li>• Unauthorized Copy Control</li> </ul>	<ul style="list-style-type: none"> <li>• Mobile Print</li> <li>• Auto Job Promotion</li> <li>• Scheduled Print</li> <li>• Banner Page print</li> <li>• Better Compression of scanning with JBIG2 Compression</li> <li>• Remote FAX</li> <li>• HDD with data encryption and overwrite</li> </ul>

### What's Different?

	RICOH MP 201SPF	RICOH MP 301SPF
CPM (Simplex)	20cpm	31cpm
CPM (Duplex)	12cpm	18cpm
Operational panel	4 line	4.3inch Color touch panel
Warm up time	30 sec (Guaranteed)	23 sec (Nominal)
First Copy time	7.5 sec (Guaranteed)	5.4 sec (Nominal)
Scan speed (FC/BW)	22ipm/10ipm (200dpi) 22ipm/5ipm (300dpi)	31ipm/31ipm (200dpi) 21ipm/31ipm (300dpi)
Dimension ( W x D x H )	485 x 450 x 481	476 x 450 x 451
TEC	1755 Wh (Guaranteed)	1507 Wh(NA) (Nominal)
Paper Weight	60 -90 g/m <sup>2</sup> ( Standard) 60-157 g/m <sup>2</sup> (Bypass)	60 -90 g/m <sup>2</sup> ( Standard) 60-157 g/m <sup>2</sup> (Bypass)

## SYSTEM HIGHLIGHTS

Copier Features	Printer Features	Scanner Features	FAX Features	Security Features	UI Features <sup>3</sup>	Accessibility Features
Duplex	Sample Print (2)	Scan to USB/SD	Detection of misplaced document	HDD Data Overwrite Security (2)	UI Customization	Easy Touch Screen
Combine Mode: 2/4 into 1 simplex	Locked Print (2)	WS-Scanner		Windows Authentication	My Operation Panel	Normal/Reverse Grip & Light drawing
1/2 duplex into 1 simplex	Hold Print (2)	Scan to E-mail	Double-check of destination address	LDAP Authentication	MFP Browser (2)	Tilt Operation Panel
4/8 into 1 duplex	Stored Print (2)	E-mail message attached (2)	Direct SMTP	Kerberos	Workflow improvement with one-button	Distinguishable LED
2/4 duplex into 1 duplex	Store and Print (2)	Subject attached	IP Fax (T.38) (2)	Basic Authentication		Single Hand Operation
Shift/Erase/Margin Adjustment	PDF Direct Print	SMTP Auth	Internet Fax (T.37) (2)	User Code Authentication		Screen Reader
Image Rotation	Mail to Print (2)	POP before SMTP	Forward to E-mail	802.1.x Wired Authentication		Electronic Manual
Electronic Sort/Stack	Classification Code	Scan to SMB	Inbound fax (G3/Internet)	Address Book Encryption		
Sharp/Soft (7 levels)	Bonjour (Rendezvous) Support	Scan to FTP	G3 Fax Transmission result	Authentication Pwd Encryption		
Contrast (9 levels)	Windows Active Directory Support	Scan to URL	G3 LAN Fax Transmission result	SSL communication		
Background Density Adjustment (9 levels)	DDNS Support	Scan to NCP (3)	Internet fax sending result (to SMTP)	S/MIME		
Under Color Removal (UCR) Adjustment (9 levels)	PCL resident font adoption	Scanned file naming	Fax to e-mail result (to SMTP)	IP sec communication (2)		
Text & Photo Separation Sensitivity Adjustment (9 levels)	Tray-Parameter Change from WebImageMonitor	Reference # Setting (ex. SCAN0001)	IP Fax sending result	HDD Encryption		
	Mobile Driver	Scan file type selection	Journal	Locked Print password Encryption		
	XPS Support	Single TIFF	Fax from special sender	Network Protocol On/Off		
	WS Printer	Single JPEG (Gray Scale)	Fax and forward designated receiver (SUB)	IP filtering (Access Control)		
	Wireless LAN interface option (1)	Single PDF	Fax forward to folder with E-mail Notification	Mask Type for Copying/Data Security for Copying		
	Media Direct Print (Print from USB/SD) (2)	Single High Compression PDF	Paperless fax (HDD received) with E-mail Notification (2)	Copy Data Security Unit Option		
		Multi page TIFF/PDF	Lan-fax with cover sheet editor	Quota Setting/Account Limit		
		Multi page High Compression PDF	LDAP Support	Kerberos		
		LDAP Support	Fax address search	SMTP over SSL		
		E-mail Address search	Max G3 lines (1)			
		FAX address search	Universal Send (Temporary)			
		Preview before transmission (TX Preview) (2)				
		PDF Encryption				
		Drop out Color Send				
		Twain Scan				
		Simultaneous FAX & Scan				

**Notes:**

- (1) Not only IEEE802.1b but also IEEE802.11a/g are supported
- (2) HDD Option Required
- (3) Network Option Required

## KEY SELLING POINTS

### I-Style Design

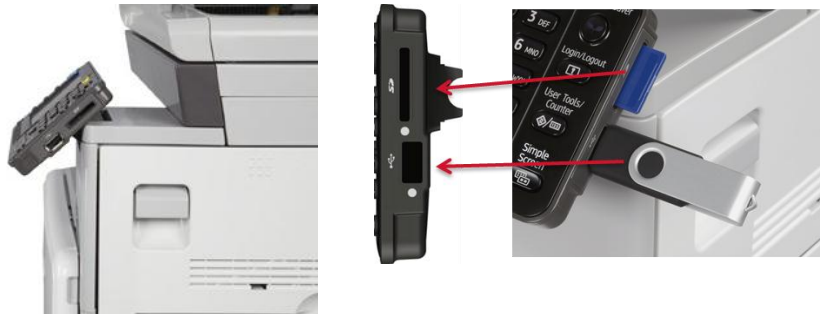
With one of the smallest footprints in its class, the MP 301 integrates a host of standard features, including automatic duplexing, into a simple cube-shape design. While the neutral light and dark gray color combination easily blends into any office décor, the color selection is functional as well as attractive. The dark gray color signifies primary areas of end user operation including the control panel, ARDF, and interior exit area.



### Tiltable Operation Panel

The new tiltable operation panel allows user to change angle of the operation panel on demand.

- Home button allows users to return to the home screen from anywhere.
- 3 function keys are available to assign designated functions
- USB/SD Card slots are conveniently placed on the right side of the panel



### 4.3 Inch color touch Panel

The MP 301SPF's new color touch panel is much easier to use and offers an enhanced user experience.



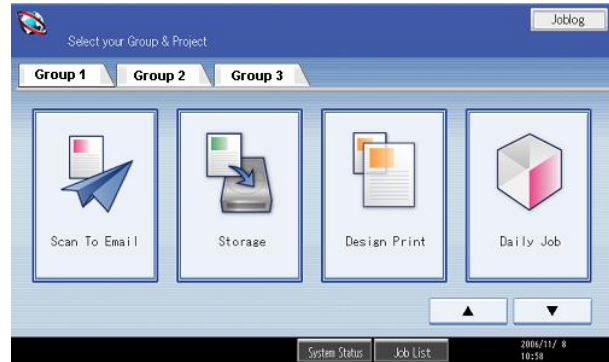
ARDF, control panel, and inner exit area are dark gray to emphasize user operation areas.

## Global Scan\*

Global Scan NX provides one user friendly button and a preset button which will configure e-mail or folder addresses and convert PDF or TIFF files, improving productivity and eliminating user error.

*\*Available as an option*

Distribute documents simply by pressing two buttons.



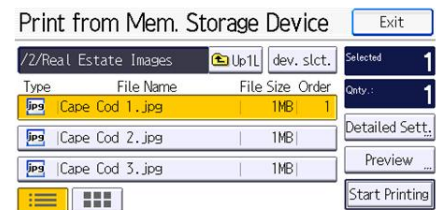
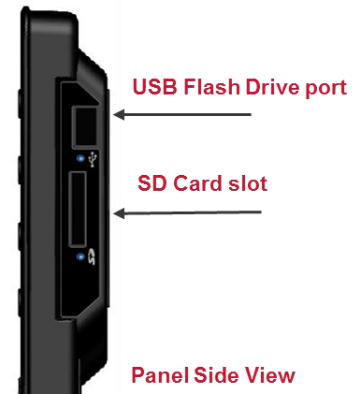
## Scan-to/Print-from\* USB & SD Cards

Customers can conveniently print data directly from USB memory devices or SD cards directly from the MP 301SPF without having to go through a PC.

### No need to launch driver or application

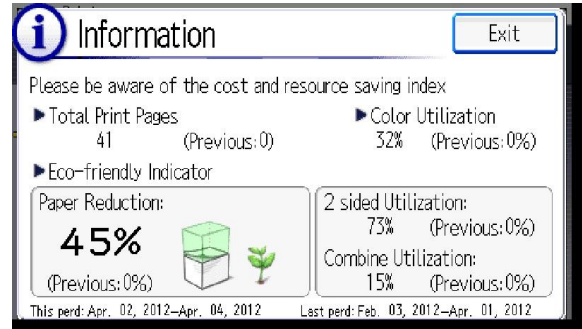
- PDF, JPEG, TIFF file format support
- Preview job thumbnails prior to printing
- Print photos from smartphones equipped with SD Cards

This functionality is perfect for business use as well as schools, universities, libraries, retail stores, hotels and public facilities. Employees that are visiting a field office may not have access to a network, now they can print without network access.



## Eco Friendly

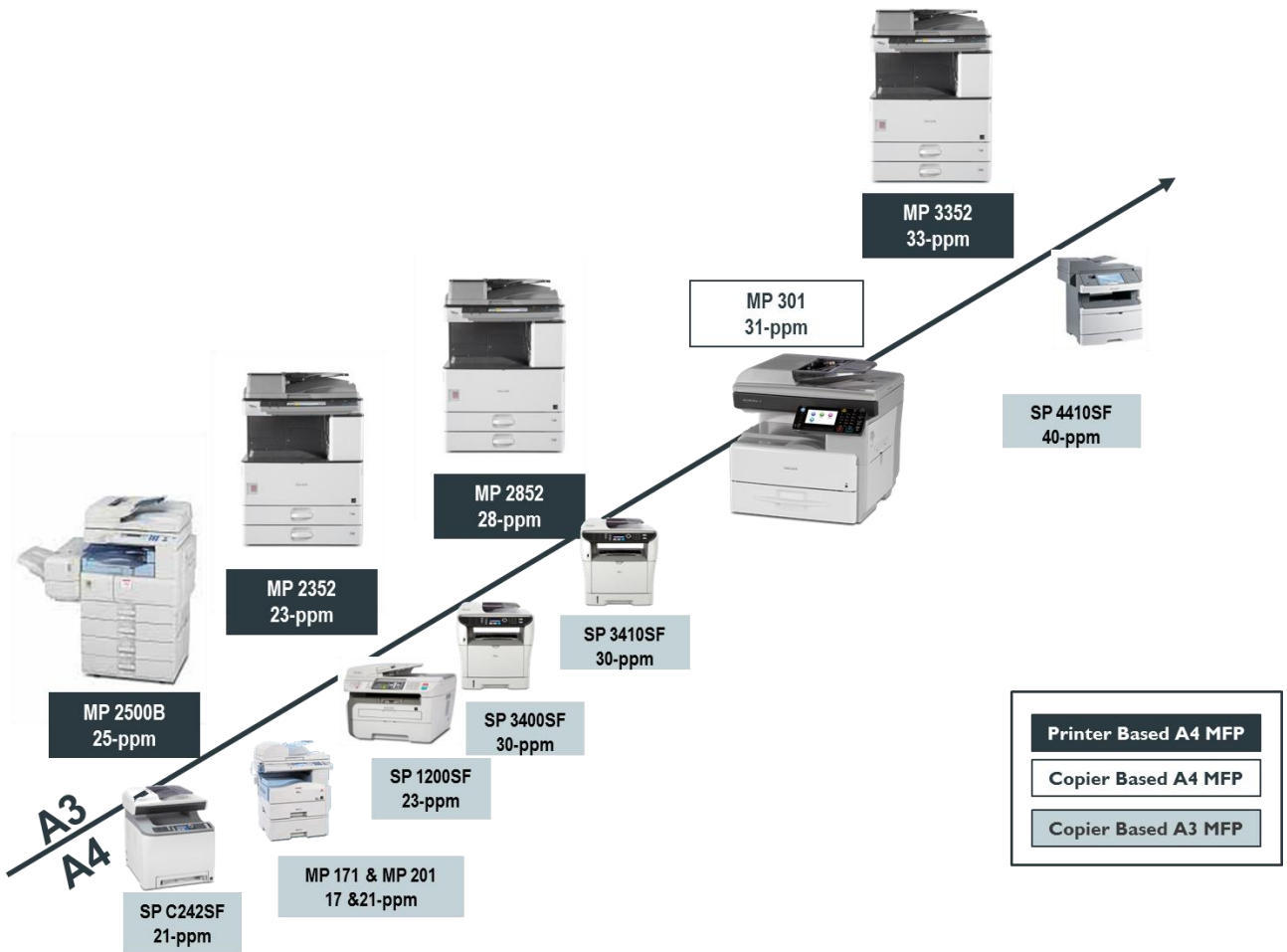
The MP 301SPF's pop-up screen informs users of when they have logged on, which also allows administrators to utilize this data for their output management.



**But the real story is the lower TEC value of the MP 301SPF compared to the competition.**

Brand	Product name	CPM	TEC
RICOH	MP 201SPF	20cpm	1755 Wh
RICOH	MP 301SPF	31cpm	1507 Wh(NA)
Canon	iR1024	24cpm	1400 Wh
Kyocera Mita	1128mfp	28cpm	3200 Wh
Samsung	SCX5935	33cpm	5500 Wh
Lexmark	x466	38cpm	5850 Wh

# 2012 PRODUCT LINE



The MP 301SPF has a new exterior look and improved control panel and also offers a wide range of exciting new features and workflow enhancements that are a function of Ricoh's new services led platform. Some enhancements have also migrated from higher volume and/or Ricoh Family Group color solutions. Highlights of these features and accessories include:

- **Workflow Enhancements**
- **TCO Reduction**
- **Environmental Enhancements**
- **Security**
- **Accessibility**

## WORKFLOW IMPROVEMENT

The MP 301SPF features a new operations panel with customizable Home Screen, assignable Function Buttons and the ability to add a corporate logo which can be inserted at the upper right corner of the screen. When coupled with the user authentication feature, users can have their own personal home screen displaying icons or shortcuts to jobs that they use most. Now, users can execute frequently used job operations in one step.

### Customizable Home Screen\*

**Home key**

Press to display Home Screen.

**Hard function keys**

In the Factory default, no functions are registered. Users can register often used functions including SDK, programmed shortcuts and Web pages.

**Customizable image area**

Users can display an image here, such as a corporate logo.



**Status key**

Press to check the machine's system status, operational status of each function, current jobs and the job history.

**Programmed shortcut icons**

Users can add shortcuts to programs or Web pages to the Home screen. The program number appears on the bottom of the shortcut icon. \*No shortcut icons are registered in the Factory default.

**Key to switch Home Screen layout**

Press to switch the layout of Home screen to 4 icons x 3 lines.

\*Simple layout (4 icons x 2 lines) to be displayed as default setting

\*Requires HDD option

## MFP Browser

MFP Browser will let users access web content from the cloud. Solutions like Integrated Cloud Environment and HotSpot printing will use the MFP Browser to gain access to the Web from the MFP control panel.

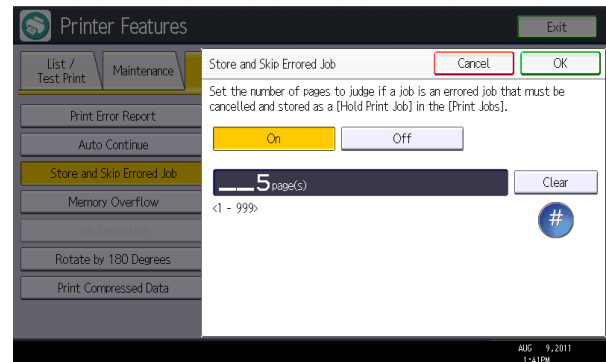
## External USB Keyboard Support

While an external keyboard previously worked only through the third party vendor, the MP 301SPF external USB Support works with most keyboards when connected via the USB port on the operation panel or controller board. This allows for either operation in SDK environments like previous models OR this can be set up to be used with our internal applications like typing text into Scan to Email, etc.



## Auto Job Promotion

Auto Job Promotion reduces printing error down time caused by mismatched paper, empty trays or unavailable media. The MFP will skip specific error jobs and place them on HOLD PRINT to be reprinted from the operation panel or Web Image Monitor when the cause of error is resolved. This will allow the MFP to print the proceeding jobs without interruption.



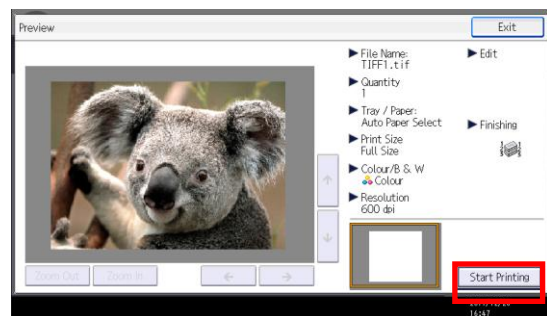
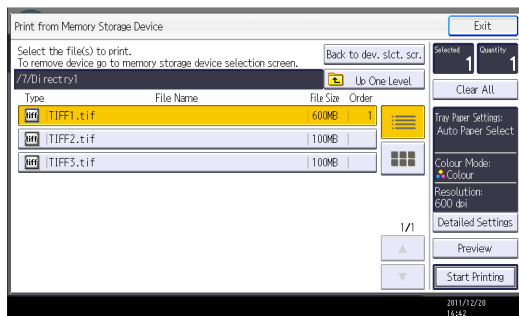


## Enhanced Media Print

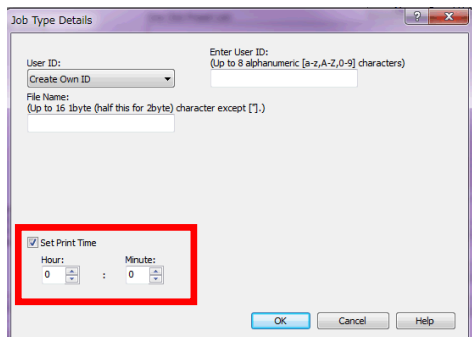
The Enhanced Media Print function in the MP 301SPF provides another feature exclusive to Ricoh. Now, users have greater accessibility to:

- Preview the first page of the document on-screen before printing
- Increase available print settings
- Choose multiple selections of PDF or TIFF files and combine them
- Confirm files to print

This is especially beneficial for marketing companies that must print out a variety of materials for presentations, group meetings, or pre-press checks. Users can print conveniently from PDFs, JPEGs or TIFF files stored in USB memory in a single operation.



## Scheduled Print



Non time-sensitive jobs can run later at night without interfering with office productivity during normal office hours and be ready for you in the morning. After hours printing also means reduced energy rates.

Users can change the specified time or delete their job either at the operation panel or via WebImageMonitor. This function is available with both Windows and on Mac OS X 10.5 or later.

## Layout and Booklet Printing

Ad agencies, marketing departments, health care facilities, academic institutions, and anyone who produces booklets will appreciate printing these documents with ease, saving paper, time and energy.

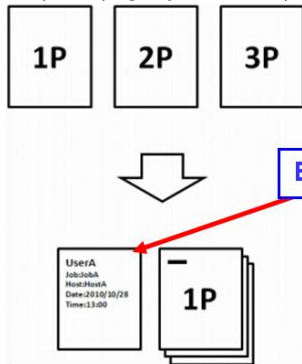
Application	Layout					
	2 in 1	4 in 1	6 in 1	8 in 1	9 in 1	16 in 1
Copy	OK	OK	N/A	OK	N/A	N/A
Document box (reading)	OK	OK	N/A	OK	N/A	N/A
Print (PCL6)	OK	OK	OK	N/A	OK	N/A
Print (PS3)	N/A	N/A	N/A	N/A	N/A	N/A

## Banner Page Print

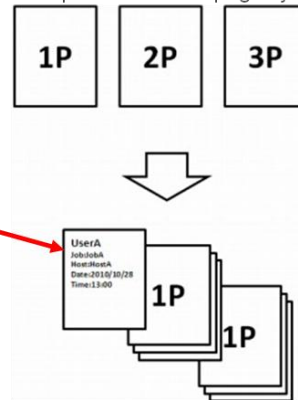
This Job Identification Page is perfect for network printing in larger shared environments such as corporate central processing areas or libraries to separate documents and identify the originator of the print request. Information includes:

- Log-in User Name, User ID or Windows/Mac account name
- The Date and Time of printing

<Example: 3 pages job with staple>



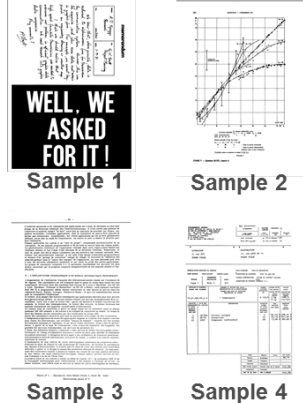
<Example: 2 sets of 3 pages job>



## Compression Support

Now administrators can reduce network load and storage related costs. JBIG2 is a high quality image compression standard that generates files typically one third to one fifth the size of conventional compression methods. Scanned PDF file sizes are reduced dramatically by compressing bi-level images with JBIG2, and archived PDF-A Adobe formatted files are guaranteed to open for the next twenty-five years.

<Example>



When the paper documents shown left side are scanned to PDF at 200, 400 and 600dpi, JBIG2 compression generates **about 70% reduced size** of MH compression.

### JBIG2 compression

Resolution	Sample 1	Sample 2	Sample 3	Sample 4	Average
200dpi	17KB	14KB	54KB	21KB	26.5KB
400dpi	35KB	27KB	105KB	41KB	52KB
600dpi	58KB	40KB	155KB	60KB	78.25KB

### MH compression

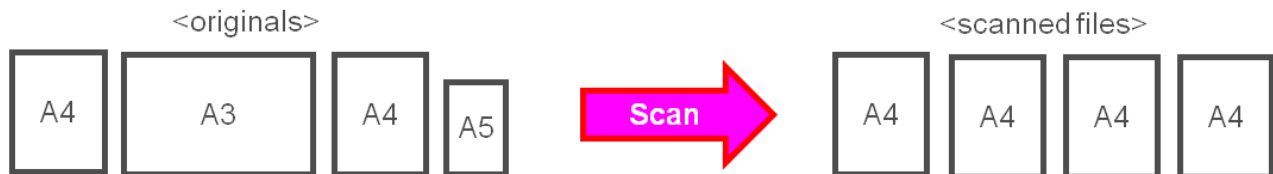
Resolution	Sample 1	Sample 2	Sample 3	Sample 4	Average
200dpi	58KB	47KB	121KB	57KB	70.75KB
400dpi	155KB	119KB	317KB	149KB	185KB
600dpi	271KB	205KB	539KB	258KB	318.25KB



## Reduce/Enlarge Scan

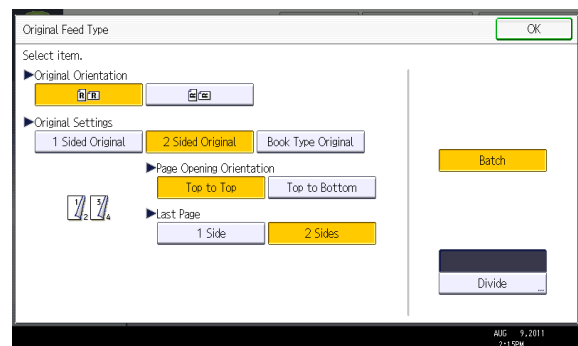
This feature offers users the flexibility to reduce or enlarge different sized originals to specific standard sizes by specifying reduction/enlargement ratios by 1% anywhere from 25% to 400%. Users can even enlarge part of an image on the original and can use it in another document.

This function is available in "Scan to Folder", "Scan to email", "Scan to USB/SD" or "Scan to URL".



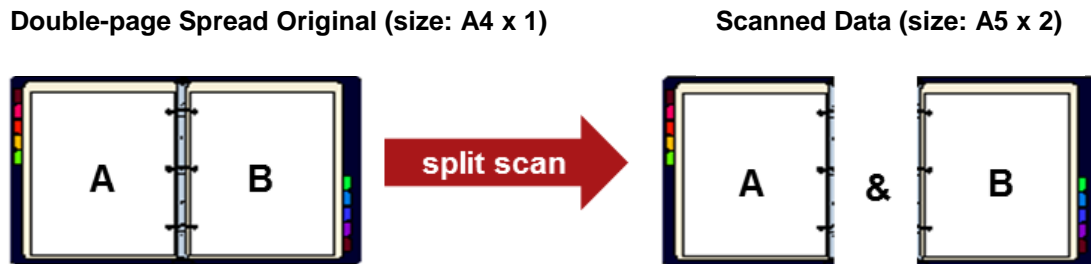
## Enhanced Batch Scan

Enhanced Batch Scan identifies which jobs are simplex and which jobs are duplex, and allows users to combine them into one file while eliminating blank pages.



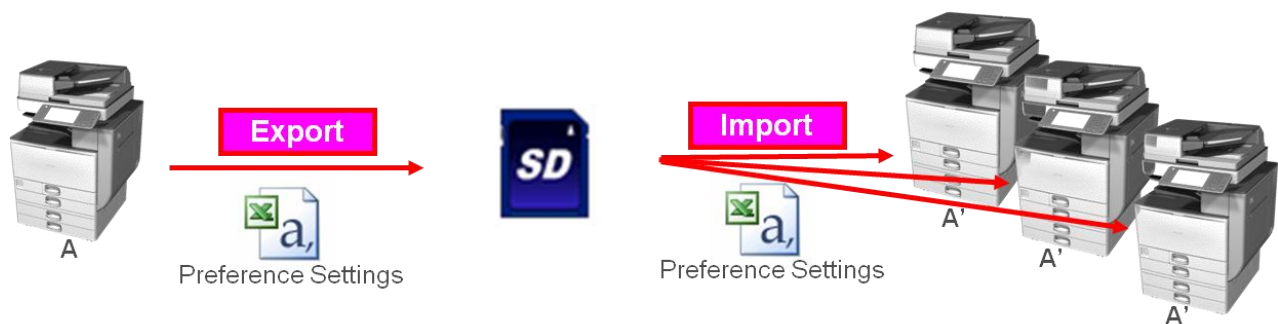
## Split Scan from Book Originals

By scanning the left page and right pages of a double-page spread separately, users can receive split scanned images of the left and right pages. Managing files becomes easier when page sizes are made uniform. Split scan is also available for custom paper sized double-page spreads.



- Set a book on glass
- Select "Book Type Original" at "Original Settings" in "Original Feed Type"
- Press "Start"

## Import/Export (Preference Settings)



Users can output preference settings such as "System Settings", "Application Settings", or shortcut programs, to an SD card and apply them to like models in one simple operation. Exported preference setting data can also be used as back-up files for same model MFPs. (EDP code and option configurations must be the same.)

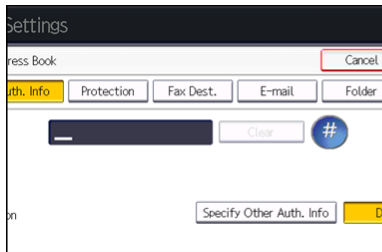
## Expanded Number of User Codes\*

The MP 301SPF expands the number of registered users from 500 to 1000 codes, perfect for office environments with more employees.

- Enter the user codes using the number keys in the “Address Book Management page”. (A)
- Select the functions to be used with the user code from “Available Functions”. (B)-(C)

\* Also available to register from Web Image Monitor

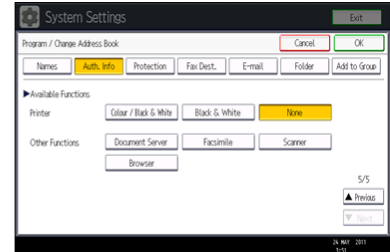
(A)



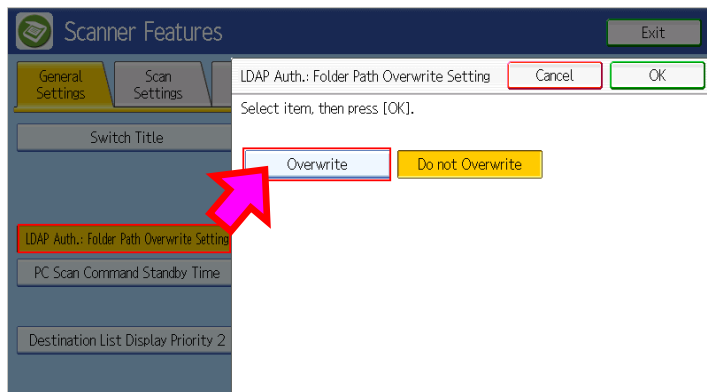
(B)



(C)



## Homefolder Over LDAP



If HomeDirectory information is registered on the LDAP server, users can scan to their Home Folder with a one-touch operation after log-in even if the folder information is not registered on the MFP. Shared information becomes even more accessible, further reducing operation costs.

## Multiple Language Keyboard Support

To enhance Ricoh's competitive edge in an emerging global market, the MP 301SPF offers both Brazilian Portuguese character soft keyboard support. (Greek keyboard will be available only with the EU model.)



QWERTY Keyboard



Greek Keyboard

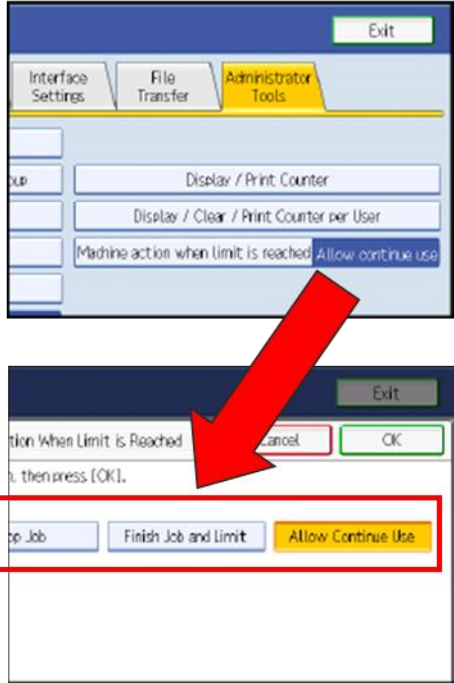
## Device Management

Ricoh's remote service @Remote Device NX allows the monitoring, managing, automated meter reading and servicing of intelligent MFPs deployed across remote customer networks. The key benefits include fleet reporting, auto toner replenishment, and service call handling that increases customer satisfaction, minimizes downtime, and lowers running costs.

- **Printer Driver Packager NX- provides 3 main functions for Ricoh Printer Drivers:**
  - Reduces printing cost by controlling employees' printer driver settings
  - Reduces employees' time to set up their printing environment by allowing an IT manager to create a package that presets parameters for the installation
  - Reduces IT manager's time to distribute the printer driver packages
- **Printer Driver Customization**
  - Change default setting: Allows IT managers to pre-set the default setting.
  - Lock functions of printer drivers: End-users can only use functions that are not locked.
  - Hide user settings: End-users can only select the parameters that are not hidden.
  - Pop up authentication: End users need to enter their User ID on pop up dialog before printing.
- **Printer Driver Packaging (New capabilities with Printer Driver Packager NX)**
  - Allows IT managers to preset all those mandatory parameters for the printer driver installation.
  - Multiple number of packages can be gathered into one package so they can be installed by end users in a single operation
  - Parameters: IP address, port number, configuration of the Multi-Function Devices, etc.
- **Printer Driver Distribution (New capabilities with Printer Driver Packager NX)**
  - Using Printer Driver Packager NX in conjunction with Device Manager NX Pro, the printer driver packages can be distributed through the UI of Device Manager NX Pro. End users can install printer drivers either from the map function, or the device list of Device Manager NX Pro.

# TCO REDUCTION

## Quota Setting



Quota Setting enables an administrator to set limits on the amount of outputs for individual users or groups for functions including:

- Copy
- Print (including Print from USB/SD)
- Document Server
- SDK

Administrators can control print volumes via supported user authentication (including basic authentication, Windows authentication, LDAP, or User Code), while specifying the method for limiting print volume (stop job, finish and limit, or allow to continue).

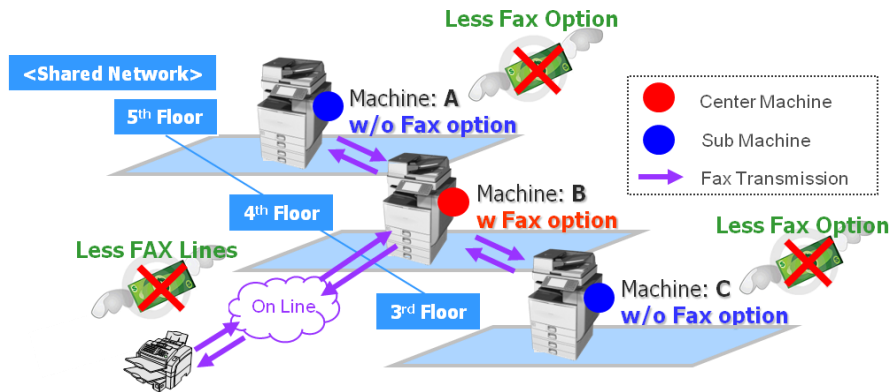
By being able to manage the number of outputs, customers can better understand the needs of each individual and/or groups and reduce the level of unnecessary output, thus decreasing the TCO and increasing environmental awareness.

*FAX related jobs and "Mail to Print" jobs can't be limited.*

## Scheduling of Quota Management

Quotas can be reviewed and reset daily, weekly, monthly, or yearly depending on the administrator's preference and changing job parameters. Users can also check when the last auto-reset is done and their last print volume use counters from the operation panel or Web Image Monitor.

## Remote Fax



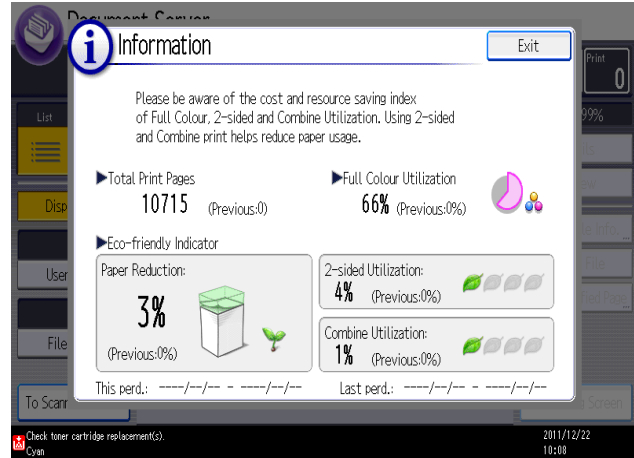
Eliminate the need to invest in fax options for all MFPs and reduce the cost of maintaining multiple fax lines. Designate one unit with fax options as the hub and allow users to send/receive fax documents from up to five other networked MFP's. Typically, some fax lines are used less frequently than others. The shared fax network means that existing lines can be concentrated into one line, without the time/cost expenditures of connecting new lines or relocating machines.



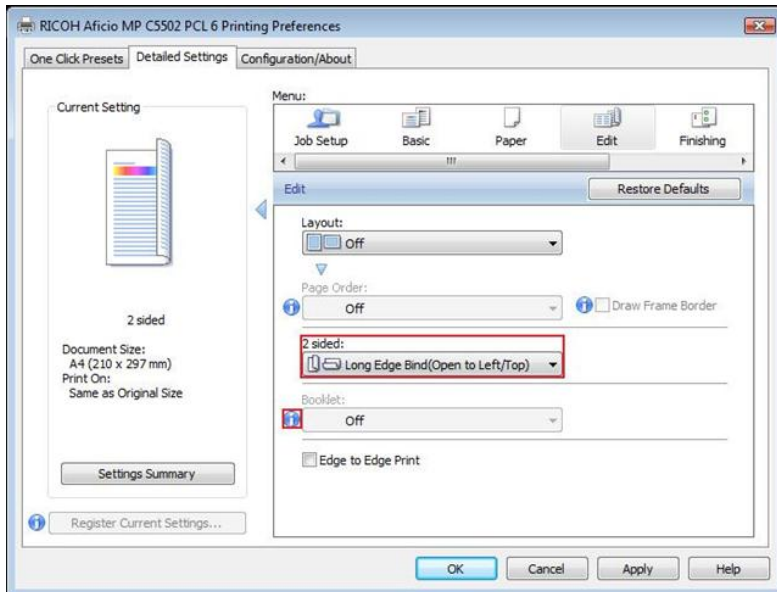
# ENVIRONMENTAL IMPACT

## Information Screen

The MP 301SPF Information Screen helps to increase “eco” awareness by informing users how environmentally conscious they have been. The screen indicates the users’ Current Eco Counter including total output volume, color/print ratio; duplex/print ratio; layout/print ratio; and paper reduction ratio and compares it to previous data. Administrators can also remind users of the company’s printing policy with a message right on the LCD display. Although competitors offer similar features for a cost, Ricoh offers this function for free.



## Duplex as Default



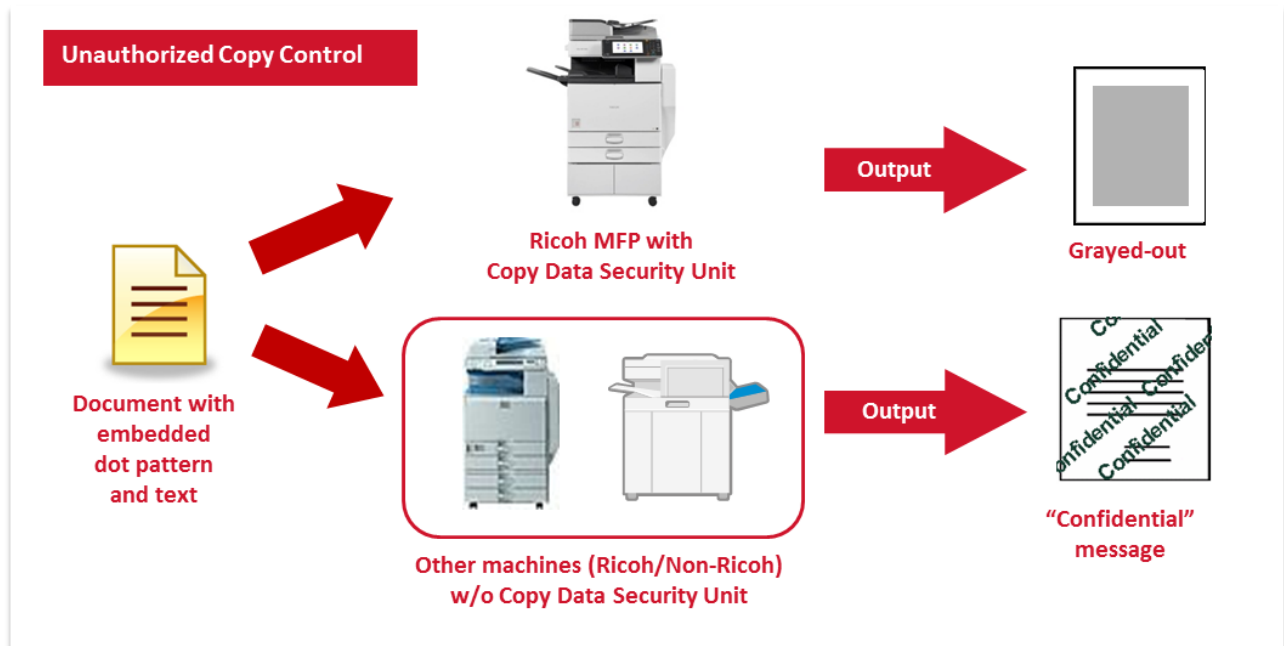
MP 301SPF Printer Drivers automatically set to Duplex as Default reducing volume, saving paper, conserving energy, and lowering the TCO for today’s cost-conscious consumer.

# SECURITY

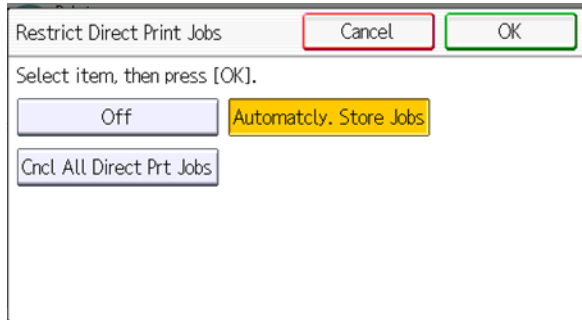
## Unauthorized Copy Control

Prevent unauthorized printing and copying. Unauthorized Copy Control allows the customer to embed a text pattern (for example: Confidential or No Copying) right from the Print Driver that will appear on printed copies. This feature is available on PCL6, Post Script Driver, Mac OSx10.2 or later and Linux OS.

If a user tries to copy a confidential document on a Ricoh device, the output will be a gray, so that the document cannot be duplicated. Installing Unauthorized Copy Control puts an extra level of authentication on any document. This feature was previously on our now discontinued RPCS Drivers.



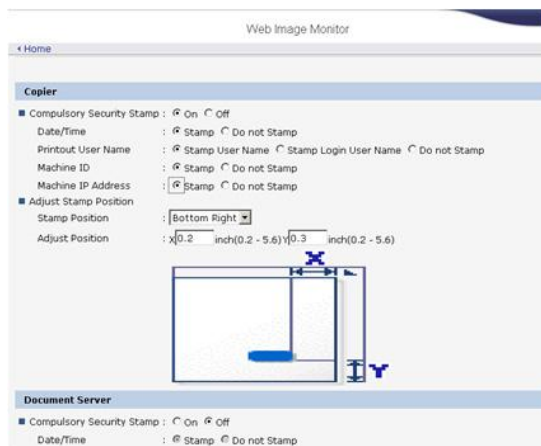
## Enhanced Print Functions Using HDD



Fewer documents will be left on output trays and the risk of information leak is reduced with the “Print to Hold” function. The setting can even be made mandatory, with “Normal” print jobs handled as “Hold” print, further securing the print environment.

Since the user can preview the job, the feature also reduces print costs by enabling cancellation of unnecessary print jobs or mistakes right at the control panel.

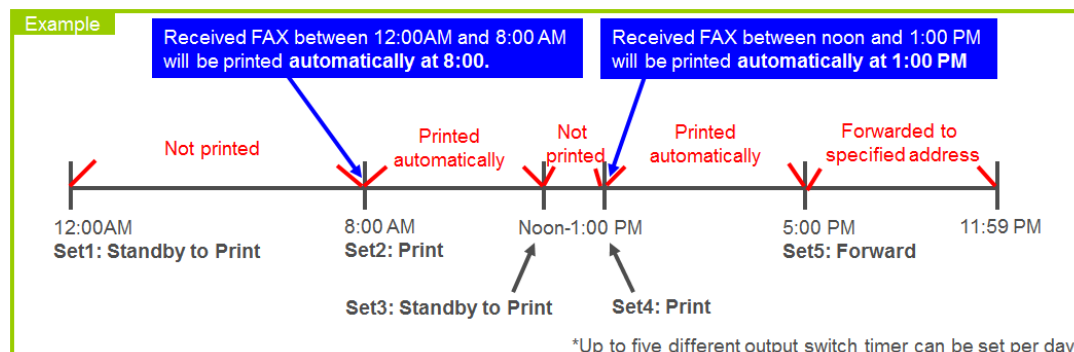
## Mandatory Security Information Print



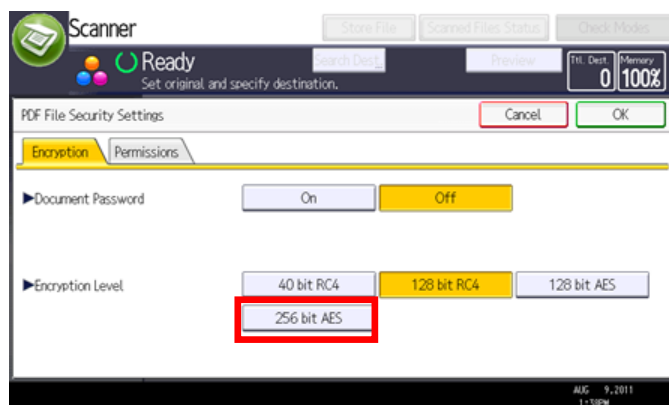
Within highly secure environments, security information may now be included on the document header, including user ID (or Log-in), Date and Time of Printing, IP address and serial number of the printing device. Administrators may select the type of mandatory information that should be printed on all output.

## Output Mode Switch Timer for Received Fax

Send your manager an email on Friday night and hold it for Monday morning. The Output Mode Switch Timer adds an extra level of security – especially for people on the go! Documents need not be printed when recipients are not in their office, reducing the possibility of information falling into the wrong hands. Users can set timers, specifying whether FAX documents received in a specific period are to be printed, forwarded to a registered receiver, or saved on the HDD.



## Enhanced Encryption Level



With Enhanced Encryption Level, users can encrypt data with the robust safety encryption algorithms AES256bit and SHA-2, recommended by NIST (National Institute of Standards and Technology), when they enable functions such as SSL, IPSEC, etc.

### AES256bit

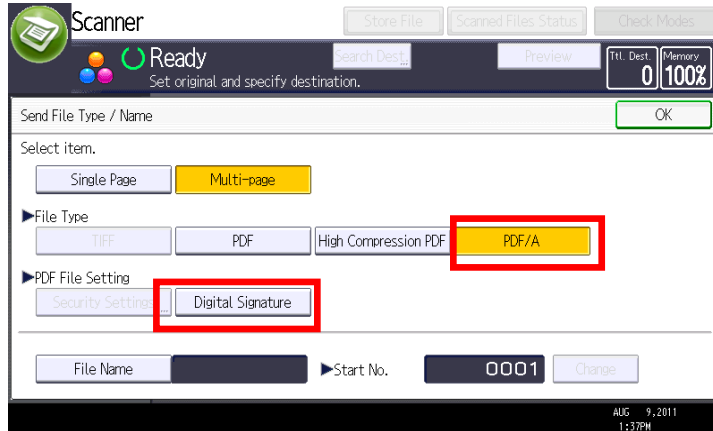
The Advanced Encryption Standard (AES) is a symmetric-key encryption standard adopted by the U.S. government, NESSIE (EU) and CRYPTREC (Japan). There are 3 types of AES; each of these ciphers has a 128-bit block size, with key sizes of 128, 192 and 256 bits, respectively and is considered much safer than DES, the previous encryption standard, with only 56 bits key size.

### SHA-2

Secure Hash Algorithm-2 (SHA-2) is a set of cryptographic hash functions designed by the National Security Agency (NSA). SHA-2 has 224, 256, 384, and 512 bit hash. Since SHA-2's hash are longer than SHA-1(160 bits), SHA-2 is safer than SHA-1. Ricoh basically adopts 256 bits hash..

# COMPLIANCE

## Scan to PDF/A & Digitally Signed PDF



PDF/A is a file format and an ISO Standard for the long-term archiving of electronic documents. Users can utilize this function when scanning paper documents related to quality management or when submitting electronic documents with PDF/A format is required by governments.

Scan to PDF/A or Scan to Digitally Signed PDF is available in following send jobs.

- Scan to mail
- Scan to Folder (SMB/FTP/NCP)
- Scan to USB/SD
- Universal send to mail address destination/ Folder destination from FAX function

Although Scan to PDF/A is available, adding digital sign to PDF is not available in following jobs.

- Scan to Document Server
- Forwarding incoming FAX to mail address

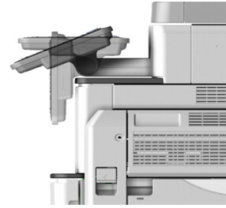
# ACCESSIBILITY

Increase your chances for success at accounts requiring Americans with Disabilities Act (ADA) compliance with these improvements:

## Simple Display Mode



## Tilttable Operation Panel



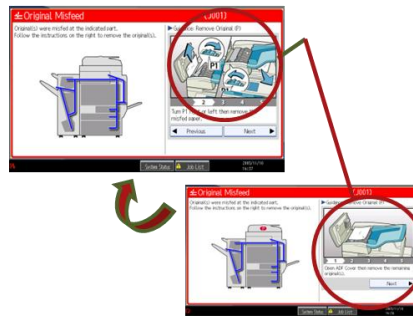
## Universal Grip-Paper Tray Handles



## Distinguishable LEDs



## Animated User Guidance Screens



## Single-Handed Operation



## Screen Reader Compatible Printer Drivers & Electronic Manuals

## MP 301SPF COMPATIBILITY CHART

Compatibility	Description	New EDP Code
New	Aficio MP 301SPF (110v)	416185
<b>General Accessories</b>		
New	Paper Feed Unit PB1040 (500 x 1) Paper Bank	416203
New	Browser Unit Type G	416200
New	HDD Option Type 301	416195
New	VM Card Type U	416163
New	FAC 57 for use with the mainframe	416441
New	FAC58 Cabinet for use with the mainframe and one or two PB1040 paper feed units	416442
<b>Fax Option Accessories</b>		
New	Fax Connection Unit Type C (N/A until Q3 2012)	416194
Common	Handset Type C5502	416324
<b>Scan/Printer Option Accessories</b>		
New	SD Card for NetWare Printing Type I	416196
Common	IEEE802.11a/b/g Wireless Type J	414008
Common	Gigabit Ethernet Board Type A	402547
Common	IEEE1284 Interface Board Type A	411699
Common	Bluetooth Interface Unit Type D	415818
Common	File Format Convertor Type E	414007
Common	Optional Counter Interface Unit Type A	413012
Common	Unicode Font Packaging for SAP 1 License	413009
Common	Unicode Font Packaging for SAP 10 Licenses	413010
Common	Unicode Font Packaging for SAP 100 Licenses	413011
<b>Security Accessories</b>		
Common	Copy Data Security Unit Type F	413985
Common	DataOverwriteSecuritySystem (DOSS) Type I	416372
<b>Miscellaneous Accessories</b>		
Common	ESP XG-PCS-15D	006428MIU
Common	Innovolt PP 120V 15A	005744MIU
Common	ACK3400-U Key Board	100266FNG

**Note:**

Items that are labeled as "Common" denotes that they are also available with other MFP's. For additional information please refer to the notes section on the price book

## MP 301SPF AFTERMARKET SUPPLIES

Name/Description	Order Code	Packaging	Yield (Carton)
Toner MP 301	841714 Tri-branded	6 bottles/carton	48k

## MP 301SPF SYSTEM CONFIGURATION

**FAC 57 High Cabinet (Tall)**



*Choice of 2 cabinets that help ensure the selection of the proper cabinet for your individual configuration*

**FAC 58 Low Cabinet (Short)**



*Choice of 2 cabinets that help ensure the selection of the proper cabinet for your individual configuration*

**500-sheet Paper Feed Unit PB1040**



**500 x 1 tray**



**500 x 2 trays**

*Increase the total system's paper capacity to a maximum of 1,350 sheets.  
Ideal for accounts that run a lot of impressions – can add up to 2 additional trays*

Options:	
Paper Feed Unit PB1040 – 500 sheets x (1) Tray	Option (can install up to 2 trays)
Hard Disk Drive (HDD Option Type C301)	128 GB HDD Option
Security (DOSS/Data Encryption)	Standard with HDD Option*
Document Server	Standard with HDD Option*
Java VM Card Type U	Option
Browser Unit Type G	Option



## SYSTEM SPECIFICATIONS

### General Specifications

<b>Configuration:</b>	Desktop
<b>Scanning Technology:</b>	Flatbed with CCD array image-sensing element
<b>Printing Technology:</b>	Laser beam scanning/marketing & electro-photographic printing
<b>Development:</b>	1-Drum Method
<b>Fusing Process:</b>	Heat roll
<b>First Copy Time:</b>	Less than 6 seconds
<b>Warm-up Time:</b>	Less than 23 seconds (from power off)
<b>Power Requirements:</b>	120~127V, 60Hz, 15A
<b>Max Power Consumption:</b>	Less than 1.3KW (Full system)
<b>Dimension (WxDxH):</b>	19.09" x 17.71" x 18.18" (476mm x 450mm x 451mm) (including ARDF and operation panel)
<b>Weight:</b>	57.32 lbs. (26kg)
<b>Simplified Display:</b>	Yes
<b>Login/Logout Button:</b>	Yes
<b>SMC Report Print out (Logging Data):</b>	No
<b>NRS Option:</b>	Yes
<b>Document Server:</b>	Yes (HDD option required)
<b>Auto-off Timer:</b>	Yes
<b>Energy Saver Timer:</b>	Yes
<b>Panel-off Timer:</b>	No
<b>System Reset Timer:</b>	Yes

## Paper Handling

### Paper Size:

#### Bypass:

A6 (SEF) - A4 (SEF) LG, 5 1/2" x 8 1/2" (SEF) - 8 1/2" x 14 (SEF)  
Custom Size Paper: 3.5"-8.5" (90-216mm) (W) x 5.7"-23.6"  
(139-600mm) (L)

#### Cassettes:

A5 (LEF) - A4 (SEF), 5 1/2" x 8 1/2" (LEF) - 8 1/2" x 14 (SEF)

### Envelope Printing:

Yes (Bypass Tray only)

### Paper Feeding Capacity:

#### Standard:

350-sheets (mainframe tray: 250-sheets + Bypass Tray 100-sheets)

#### Maximum:

1350-sheets (mainframe tray: 250-sheets + Bypass Tray 100-sheets + optional tray 500-sheets + second optional tray 500-sheets)

### Paper Output Capacity:

#### Standard:

250-sheets internal tray

### Maximum Paper Weight:

#### Standard Tray:

16 lb -- 24 lb bond (60-90 g/m<sup>2</sup>)

#### Bypass Tray:

16 lb – 42 lb bond (60-157g/m<sup>2</sup>)

#### Duplex:

20 lb – 24 lb bond (60-90 g/m<sup>2</sup>)

### Auto Tray Switch:

Yes

### Paper Type Capability:

#### Standard Tray:

Plain Paper, Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Bond Paper, Card Stock, Pre-punched Paper, Special Paper

#### Paper Feed Option:

Plain Paper, Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Bond Paper, Card Stock, Special Paper

#### Bypass Tray:

Plain Paper, Thick Paper, OHP (Transparency), Recycled Paper, Color Paper, Letterhead, Preprinted Paper, Bond Paper, Card Stock, Pre-punched Paper, Special Paper

### Reliability:

#### ACV:

2K outputs/month

#### Max CV:

5K outputs/month

#### Duty Cycle:

20K outputs/month

#### MCBC:

21.2K outputs

#### Life:

Approx 300K or 5 Years

## Copy Specifications

### First Time Copy:

B/W: less than 6 seconds (A4, LT, SEF)

FC: less than 10 seconds (A4, LT, SEF)

### CPM Black:

31ppm (LT), 30ppm (A4) ARDF 1 to 1: 30ppm

### Multiple Copying:

Up to 99 copies

### Reproduction Ratio:

155%, 129%, 100%, 93%, 78%, 65%

### Zoom:

From 25% to 400%, in 1% increments

### Resolution:

Platen: 600 x 600 dpi

DF: 600 x 300 dpi

Writing: 600 x 600 dpi

### Gray Scale (per dot):

Scanning: 256 Levels; Marking: Binary

## Print Specifications

<b>CPU:</b>	RM7035C 533MHz
<b>RAM:</b>	1GB
<b>HDD:</b>	Opt (128GB)
<b>Print Drivers:</b>	PCL5e, PCL6, PS3, XPS (standard)
<b>Print Resolution:</b>	
<b>PCL5e:</b>	600/300 dpi
<b>PCL6:</b>	600 dpi
<b>PS3:</b>	600/300 dpi
<b>XPS:</b>	600/400/300/200 dpi
<b>Network Interfaces:</b>	
<b>Standard:</b>	USB2.0 (RJ - 45, Ethernet100BASE-TX/10BASE-T)
<b>Option:</b>	Gigabit Ethernet (1000BASE-T), Wireless LAN (IEEE802.11a/b/g), Bluetooth, IEEE1284
<b>Network Protocol:</b>	TCP/IP (IPv4, IPv6) IPX/SPX optional with netware option
<b>Standard MIB:</b>	MIB-II(RFC1213), HostResource (RFC1514), PrinterMIB (RFC1759), SNMPv3(RFC2574)
<b>Private MIB:</b>	Ricoh private MIB
<b>Network/Operating System:</b>	
<b>PCL5c Driver:</b>	
<b>OS:</b>	Windows XP/Server 2003/Vista/Server 2008/7 (32bit) Windows XP/Server 2003/Vista/Server 2008/Server 2008R2/7 (64bit)
<b>Citrix:</b>	Metaframe XP (32bit) Citrix Presentation Server 4.5 (32bit) Citrix XenApp5.0/6.0 (32bit)
<b>PCL6 driver:</b>	
<b>OS:</b>	Windows XP/Server 2003/Vista/Server 2008/7 (32bit) Windows XP/Server 2003/Vista/Server 2008/Server 2008R2/7 (64bit)
<b>Citrix:</b>	Citrix Presentation Server 4.5 (32bit/64bit) Citrix XenApp5.0/6.0 (32bit/64bit)
<b>PS driver:</b>	
<b>OS:</b>	Windows XP/Server 2003/Vista/Server 2008/7 (32bit) Windows XP/Server 2003/Vista/Server 2008/Server 2008R2/7 (64bit) Mac OS 10.2x~10.4.x; Mac OS 10.5x~
<b>Citrix:</b>	Citrix Presentation Server 4.5 (32bit/64bit) Citrix XenApp5.0/6.0 (32bit/64bit)
<b>XPS driver:</b>	
<b>OS:</b>	Windows Vista/Server 2008/7 (32bit) Windows Vista/Server 2008/Server 2008R2/7 (64bit)
<b>Citrix:</b>	Not available
<b>PCL6 (XL)/PostScript Universal Driver:</b>	
<b>OS:</b>	Windows XP/Server 2003/Vista/Server 2008/7 (32bit) Windows XP/Server 2003/Vista/Server 2008/Server 2008R2/7 (64bit)
<b>Citrix:</b>	Citrix Presentation Server 4.5 (32bit/64bit) Citrix XenApp5.0/6.0 (32bit/64bit)

## Scanner Specifications

<b>Color Scan:</b>	Yes
<b>Scanning Speed:</b>	
<b>B/W:</b>	31ipm (300dpi) LET
<b>Color:</b>	21ipm (300dpi) LET 31ipm (200dpi) LET
<b>Scanning Resolution:</b>	
<b>Standard:</b>	100,200,300,400,600dpi
<b>Default:</b>	200 dpi
<b>Auto Size Detection:</b>	
<b>Contact Glass:</b>	No
<b>ARDF:</b>	No
<b>Scan Area:</b>	
<b>Contact Glass:</b>	8.5" x 14" (216 x 356mm) LT/LG/A4 available from contact glass
<b>ARDF:</b>	Simplex: 8.5" x 23.6" (216 x 600mm); Duplex: 8.5" x 14" (216 x 356mm)
<b>Network Interface:</b>	
<b>Standard:</b>	Ethernet (100BASE-TX/10BASE-T)
<b>Option:</b>	Gigabit Ethernet (1000BASE-T), Wireless LAN (IEEE802.11a/b/g)
<b>Protocol:</b>	Network: TCP/IP; Sending E-mail: SMTP, POP3; Scan to Folder: SMB, FTP, WSD Scanner, NCPWeb Services on Devices for Scanning (optional) <i>NCP is available with netware option</i>
<b>Compression Method:</b>	
<b>B/W:</b>	MH (default), MR, MMR, JBIG2
<b>Single-Page TIFF</b>	BW 1 bit/ (MH, MR, MMR)
<b>Multi Page TIFF</b>	BW 1 bit/ (MH, MR, MMR)
<b>Single Page JPEG</b>	BW Grayscale/JPEG
<b>Single Page PDF</b>	BW 1 bit/ (MH, MR, MMR, JBIG2) BW Grayscale / JPEG
<b>Multi Page PDF</b>	BW 1 bit/ (MH, MR, MMR, JBIG2) BW Grayscale / JPEG
<b>Single Page Hi Comp PDF</b>	BW Grayscale / JPEG or JPEG2000
<b>Multi Page Hi Comp PDF</b>	BW Grayscale / JPEG or JPEG2000
<b>Single Page PDF-A</b>	BW 1 bit / (MH, MR, MMR or JBIG2) BW Grayscale / JPEG
<b>Multi Page PDF-A</b>	BW 1 bit / (MH, MR, MMR or JBIG2) BW Grayscale / JPEG
<b>Color:</b>	JPEG
<b>Single Page JPEG</b>	Full Color/JPEG
<b>Single Page PDF</b>	Full Color/JPEG
<b>Multi Page PDF</b>	Full Color/JPEG
<b>Single Page Hi Comp PDF</b>	Full Color /JPEG or JPEG2000
<b>Multi Page Hi Comp PDF</b>	Full Color /JPEG or JPEG2000
<b>Single Page PDF-A</b>	Full Color /JPEG
<b>Multi Page PDF-A</b>	Full Color /JPEG
<b>Scan Mode:</b>	BW Text Mode: Text, Text/Line Art, Text/Photo, Photo, Grayscale Full Color: Text/Photo, Glossy Photo Color (24bit), Grayscale (8bit)

**Image Density:** Yes (manual)  
**Image Rotation:** Yes  
**Batch Mode /SADF:** Batch Mode: Yes/SADF Mode: Not available  
**Mixed Size Mode:** Yes (Letter and Legal available)  
**File Format:** Single Page TIFF  
Multi Page TIFF  
Single Page JPEG  
Single Page PDF  
Multi Page PDF  
Single Page High Compression PDF  
Multi Page High Compression PDF  
Single Page PDF-A  
Multi Page PDF-A

## Scan-to-E-mail

<b>Requirement:</b>	SMTP (Mail Server) Gateway and TCP/IP
<b>Authorization Function:</b>	SMTP authentication; POP before SMTP authentication
<b>Resolution:</b>	
Std:	100dpi, 200dpi, 300dpi, 400dpi, 600dpi
Default:	200dpi
<b>Max Email Address in HDD:</b>	2000 addresses (with optional HDD), 200(Standard)
<b>Register Group Address in HDD:</b>	Standard: 10 groups (100 numbers per 1 group)
<b>With HDD:</b>	100 groups (100 numbers per 1 group)"
<b>Maintain Email Address in HDD:</b>	Direct input on operation panel, Web Image Monitor, SmartDeviceMonitor for Admin
<b>Input of Destination E-mail Address via Soft Key:</b>	Possible, Max. 100 destinations per job
<b>Search Email Address in HDD:</b>	By name and E-mail address
<b>LDAP Search:</b>	Yes
<b>Max Address Numbers per Send:</b>	Max. 100 addresses per send
<b>Address Numbers per Send:</b>	
<b>from HDD:</b>	Max. 500
<b>direct input:</b>	Max. 50 (without HDD) Max. 500 (with HDD)
<b>via LDAP:</b>	Max. 100
<b>Attention:</b>	To, CC, BCC
<b>Email Size:</b>	
<b>with Restriction:</b>	128 – 102,400KB, Default = 2,048KB
<b>w/o Restriction:</b>	No (as far as memory can read)
<b>File type:</b>	TIFF (Single page/Multiple page), JPEG (Single page), PDF (Single page/Multiple page), High Compression PDF (Single page/Multiple page), PDF/A (Single Page/Multiple Page)
<b>Program User Settings:</b>	Yes
<b>Divide and send Email:</b>	Yes
<b>Resend:</b>	No (without HDD) Yes (with HDD)
<b>Input Subject:</b>	Yes* <i>*Max 128 Characters via soft key with HDD Option</i>
<b>Input Main Body Text:</b>	Manual: Yes * <i>*Max 128 Characters via soft key with HDD Option</i>
<b>Input File Name:</b>	User Pre-register: Yes Yes* <i>* Max 80 Characters; 5 line via soft key with HDD Option</i>

## Scan-to-Folder

<b>Protocol Support:</b>	SMB (Server Message Block), FTP (File Transfer Protocol), NCP (*opt) *NCP is available with netware option
<b>Security:</b>	Client folder log-in (log-in name and password) Encryption of log-in name and password during transmission
<b>Resolution:</b>	
<b>Standard:</b>	100dpi, 200dpi, 300dpi, 400dpi, 600dpi
<b>Default:</b>	200dpi
<b>Register client folder address in HDD:</b>	Max. 2000 folders (with optional HDD); 150 without HDD
<b>Maintain client folder address in HDD:</b>	Direct input on operation panel, WebImageMonitor, SmartDeviceMonitor for Admin
<b>Direct addressing of destination client folder via soft key:</b>	Yes SMB: Network path -> Client folder -> Password FTP: Server -> Network path -> User account -> Password NCP (*opt): Network path -> User account -> Password -> Connection *NCP is available with netware option
<b>Search client folder:</b>	SMB: Browsing directly to the designated folders FTP: By client folder name NCP: Browsing *NCP is available with netware option
<b>Group address:</b>	Max. 132 destinations (To Folder: 50, To E-mail: 500) (*1) e.g. 500 destinations 50 folders included >>>OK 500 destinations 51 folders included>>>Failure
<b>Input File name:</b>	Yes (Max 128 character via soft key)
<b>Scan to File size:</b>	2,000MB (with HDD), 140MB (without HDD)
<b>File Size when combined Scan to Folder &amp; Scan to E-mail:</b>	128 – 102,400KB, Default = 2,048KB (with restriction) (Scan to E-mail file size applied).
<b>File Type:</b>	TIFF (Single page/Multiple page), JPEG (Single page), PDF (Single page/Multiple page), High Compression PDF(Single page/Multiple page) PDF/A (Single Page/Multiple Page)
<b>Program User Settings:</b>	Yes
<b>Resend:</b>	No (without HDD) Yes (with HDD)

## Network TWAIN Scanning

<b>Operating Systems:</b>	32bit/64bit: Windows XP, Vista, 7, Server2003/2008 64bit: Windows Server 2008R2 (Operates in 32-bit compatibility mode on 64-bit operating systems)
<b>Scanning Speed:</b>	
<b>B&amp;W:</b>	30 (300dpi)
<b>Full Color:</b>	20 (300dpi), 30 (200dpi)
<b>Resolution:</b>	
<b>B&amp;W:</b>	Book: 100~1200 600dpi by 1bit each ARDF: 100~600dpi by 1bit each
<b>Full Color:</b>	Book: 100~1200dpi by 1bit each ARDF: 100~600dpi by 1bit each
<b>Scan Mode:</b>	Standard / Photo / OCR / Filing
<b>Image Adjustment:</b>	Brightness / Contrast / Threshold /Gamma Adjustment / Halftone Pattern

## Facsimile Specifications

<b>Circuit:</b>	PSTN, PBX
<b>Compatibility:</b>	G3
<b>Resolution:</b>	200x100dpi, 200x200 dpi 8 x 3.85 l/mm, 8x7.7 l/mm, 8x15.4 l/mm (send only)
<b>Compression Method:</b>	MH/MR/MMR/JBIG
<b>Scanning Speed: (DF used)</b>	2.4 second (200 x 200/200 x 100, 8 x 15.4/mm/A4)
<b>Scan Page per Minute</b>	
<b>A4/LT SEF:</b>	22 pages/minute (200x100dpi, 200x200dpi, 8 x 15.4/mm/A4)
<b>Modem Speed:</b>	33.6K~2400bps with Auto Fallback
<b>Transmission Speed:</b>	G3: Approx.2 seconds (200x100dpi, JBIG, ITUT#1 chart, A4SEF, TTI off, memory transmission)
<b>Page Memory:</b>	4 MB No page memory option available
<b>SAF Memory Size:</b>	4 MB/320-sheets (ITU-T No. 1 chart)
<b>Memory Backup:</b>	12 hours
<b>Smoothing:</b>	Standard (Binary)
<b>TTI/RTI:</b>	Yes
<b>CSI:</b>	Yes
<b>Quick Dial:</b>	Yes (address book, 200 standard; 2000 with HDD)
<b>Group Dial:</b>	Standard (10 groups: Standard, Max. 100 numbers per group: with HDD option)
<b>Program:</b>	Yes
<b>Redial:</b>	Yes (Last 10 destinations)
<b>Direct Fax Number Entry:</b>	Yes
<b>Dual access:</b>	Yes
<b>User Code:</b>	Yes (8 digits, 1000 Personal Codes)
<b>Page Counter:</b>	Yes
<b>Auto Reduction:</b>	No
<b>Wild Cards:</b>	Yes
<b>Summer Time:</b>	Yes
<b>ID Code Programming:</b>	Yes (4 digits, only for Memory Lock)
<b>User Function Key:</b>	Yes (3 keys)
<b>Energy Saver:</b>	Yes
<b>LCD Prompt:</b>	Yes
<b>Remaining Memory Indication:</b>	Yes
<b>Clock Adjustment:</b>	Yes
<b>User Parameter Settings:</b>	Yes
<b>User Data Transfer:</b>	No

## Facsimile Transmission

<b>Remote Fax:</b>	Yes (option)
<b>Immediate Transmission:</b>	Yes
<b>Memory Transmission:</b>	Yes
<b>Serial Broadcasting:</b>	Yes (Max.500 numbers)
<b>Send Later:</b>	Yes
<b>Error Correction Mode:</b>	Yes
<b>Page Retransmission:</b>	Yes
<b>Forwarding:</b>	Yes
<b>Image Rotation:</b>	No
<b>Book Fax:</b>	Yes
<b>Closed Network Transmission:</b>	Yes
<b>Double Sided Transmission:</b>	Yes
<b>Transmission Reserve:</b>	Yes (Only MemoryTransmission)



### Facsimile Reception

<b>Automatic Reception:</b>	Yes
<b>Manual Reception:</b>	Yes
<b>Night Timer:</b>	No
<b>Substitute Reception:</b>	Yes
<b>Authorized Reception:</b>	Yes
<b>Multi Copy:</b>	Yes
<b>Closed Network:</b>	Yes
<b>Reception Time Printing:</b>	Yes
<b>Center Mark:</b>	Yes
<b>Checkered Mark:</b>	Yes
<b>Economy Printing Mode:</b>	No
<b>Duplex Reception:</b>	Yes

### Telephone Specifications

<b>Handset/Telephone:</b>	Yes (Option)
<b>Telephone Connection:</b>	Yes
<b>Monitor Speaker:</b>	Yes
<b>Automatic Voice Message:</b>	No
<b>On Hook Dial:</b>	Yes
<b>Tone Transmission:</b>	Yes
<b>Pause:</b>	Yes
<b>Pulse/Tone Selection:</b>	Yes (Manual)
<b>Chain Dialing:</b>	No
<b>Reception Mode Selection:</b>	Yes
<b>Automatic Fax/Phone Change:</b>	Yes (Automatic switch from phone to fax only)
<b>Reception Mode Switch Over (remote):</b>	No
<b>Answering Machine Interface:</b>	No
<b>Reception Mode Switching Timer:</b>	No
<b>Auto Answer Delay Time:</b>	Yes
<b>Busy Tone Detection:</b>	Yes
<b>Silent Ringing Detection:</b>	No

## Internet Fax Specifications \*HDD option required

<b>Requirement of Mainframe:</b>	SPF model is required
<b>Number of Address:</b>	200 without HDD; 2,000 with HDD
<b>Email Address Input:</b>	From LCD operation panel, Web Image Monitor, Smart Device Monitor for Admin
<b>Attention:</b>	"to" or "bcc" (select only one), max 500 attentions
<b>Destination Combination:</b>	Internet Fax + G3 Fax, Internet Fax to PC + G3 Fax
<b>Network:</b>	LAN: Local Area Network Ethernet 10Base-T/100Base-TX, Ethernet 1000Base-T (option), Wireless LAN (IEEE802.11a/b/g) (option)
<b>Transmit Function:</b>	E-mail
<b>Scan Line Density:</b>	200 x 100 dpi (Standard character), 200 x 200 dpi (Detail character)
<b>Original Size:</b>	A4
<b>Scanning width:</b>	Transmission
<b>Communication Protocol:</b>	SMTP, TCP/IP Reception POP3, SMTP, IMAP4, TCP/IP
<b>Email Format:</b>	Single/Multi-part, MIME Conversion Attached file forms: TIFF (MH, MR MMR compression)
<b>Authentication Method:</b>	SMTP-AUTH, POP before SMTP, A-POP
<b>Internet Communication:</b>	Send and receive e-mail with a computer that has an e-mail address
<b>Email Send Functions:</b>	Automatic conversion of sent documents to e-mail format and e-mail transmission. Memory transmission only
<b>Email Receive Functions:</b>	Automatic detection and printing of appended TIFF(MH) files and ASCII text. Memory reception only

## LAN Fax

<b>Paper Size:</b>	Letter (default), Legal, A4, A5
<b>Resolution:</b>	Detail (200 x 200 dpi) *default Standard (200 x 100 dpi)
<b>Gray Scale:</b>	No
<b>Number of Address:</b>	500
<b>OS:</b>	Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008, Windows 7
<b>LAN-Fax Editor Support Language:</b>	1. English, 2. German, 3. French, 4. Italian, 5. Spanish, 6. Dutch, 7. Swedish, 8. Norwegian, 9. Danish, 10. Finnish, 11. Hungarian, 12. Czech, 13. Polish, 14. Portuguese, 15. Russian, 16. Traditional Chinese, 17. Simplified Chinese, 18. Catalan, 19. Turkish Condition, 20. Greek, 21. Brazilian Portuguese

### IP Fax Specification \*HDD option required

<b>Network:</b>	LAN: Local Area Network, Ethernet 10Base-T/100Base-TX, Ethernet 1000Base-T(option) ,Wireless LAN (IEEE802.11a/b/g) (option)
<b>Scan Line Density:</b>	8 x 3.85 lines/mm, 200 x 100 dpi (Standard character),8 x 7.7 lines/mm, 200 x 200 dpi (Details character),8 x 15.4 lines/mm (Fine character)
<b>Original Size:</b>	Maximum A4 or 8.5" x 14" (216mm x 356mm)
<b>Max Scanning Size:</b>	Standard: A4, 8.5" x 14" (216mm x 356mm)
<b>Transmission Protocol:</b>	Recommended: T.38 Annex, TCP, UDP/IP communication, SIP (RFC 3261 compliant), H.323 v2
<b>Compatible Machines</b>	IP-FAX compatible machines
<b>IP-Fax Transmission Function</b>	Yes
<b>IP-Fax Reception Function</b>	Yes

### Document Server Specifications

<b>HDD Capacity:</b>	128 (Opt)
<b>Max Stored Documents:</b>	3000
<b>Max Pages Per Documents:</b>	1000
<b>Max Pages of All Stored Documents:</b>	9000

### Security Specifications

<b>Network User Authentication:</b>	Yes
<b>IP Address Filtering:</b>	Yes
<b>MAC Address Filtering:</b>	No
<b>HDD Overwrite:</b>	Yes *HDD option required
<b>HDD Encryption:</b>	Yes *HDD option required
<b>Secure Print:</b>	Yes *HDD option required
<b>Encrypted Secure Print:</b>	No
<b>Encrypted PDF Mode:</b>	Yes
<b>Digitally signed PDF:</b>	Yes
<b>IP Sec:</b>	Yes
<b>Secure Sockets Layer (SSL):</b>	Yes
<b>SNMPv3:</b>	Yes
<b>IPv6:</b>	Yes
<b>Transport Layer Security:</b>	Yes
<b>Removable HDD:</b>	No

## Printer Driver

OS	Type	PCL5c	PCL6	PostScript3	XPS
Windows 2000	Type	N	N	N	N
	Professional	N	N	N	N
	Server	N	N	N	N
	Advanced Server	N	N	N	N
	Datacenter Server	N	N	N	N
Windows XP	Professional	Y	Y*4	Y*4	N
	Home Edition	Y	Y*4	Y*4	N
Windows Server 2003	Standard Edition	Y	Y*2	Y*2	N
	Enterprise Edition	Y	Y*2	Y*2N	N
	Datacenter Edition	N	N	N	N
	Web Edition	N	N	N	N
Windows Vista	Home Basic	Y	Y*3	Y*3	Y*3
	Home Premium	Y	Y*3	Y*3	Y*3
	Business	Y	Y*3	Y*3	Y*3
	Ultimate	Y	Y*3	Y*3	Y*3
	Enterprise	Y	Y*3	Y*3	Y*3
Windows Server 2008	Standard Edition	Y	Y	Y	Y
	Standard Edition without Hyper-V	Y	Y	Y	Y
	Enterprise Edition	Y	Y	Y	Y
	Datacenter Edition	N	N	N	N
	Web Edition	N	N	N	N
Windows Server 2008 R2	Standard Edition	Y	Y	Y	Y
	Enterprise Edition	Y	Y	Y	Y
Windows 7	Home Basic	N	N	N	N
	Starter	N	N	N	N
	Home Premium	Y	Y	Y	Y
	Professional	Y	Y	Y	Y
	Enterprise	Y	Y	Y	Y
	Ultimate	Y	Y	Y	Y

\*1. Adobe does not release PS driver for Windows2000, 2003 and XP. Only MS-PostScript driver is available and PPD file for MS-PS is included in the Driver

\*2. SP2 or later

\*3. SP1 or later is recommended

\*4. SP3 or Later

## Point and Print

Windows OS	Drivers				
	Client(Push to)	PCL5c	PCL6	PS	XPS
Server					
Windows Server 2003	7	Yes	Yes	Yes	No
	Vista	Yes	Yes	Yes	No
	XP	Yes	Yes	Yes	No
	W2K Pro	No	No	No	No
Windows Server 2008	7	Yes	Yes	Yes	Yes
	Vista	Yes	Yes	Yes	Yes
	XP	Yes	Yes	Yes	No
	W2K Pro	No	No	No	No
Windows XP Professional	7	Yes	Yes	Yes	No
	Vista	Yes	Yes	Yes	No
	XP	Yes	Yes	Yes	No
	W2K Pro	No	No	No	No
Windows 2000 Professional Server & Advanced Server	7	No	No	No	No
	Vista	No	No	No	No
	XP	No	No	No	No
	W2K Pro	No	No	No	No
Windows Vista	7	Yes	Yes	Yes	Yes
	Vista	Yes	Yes	Yes	Yes
	XP	Yes	Yes	Yes	No
	W2K Pro	No	No	No	No

## Terminal Services and Citrix MetaFrame

Server	Driver		
	PCL5e	PCL6	PS
Win Server 2008R2	Y	Y	Y
Win Server 2008	Y	Y	Y
Win Server 2003	Y	Y	Y
Win 2000 Server	N	N	N
Win Server 2003 + MetaFrame	N	N	N
Win 2000 Server + MetaFrame	N	N	N
Win Server 2003 + Citrix PresentationServer4.0	Y	N	N
Win 2000 Server + Citrix PresentationServer4.0	N	N	N
Win Server 2003 + Citrix PresentationServer4.5	Y	Y	Y
Win Server 2003 + XenApp5.0	Y	Y	Y
Win Server 2008 + XenApp5.0	Y	Y	Y
Win Server 2008 R2 + XenApp6.0	Y	Y	Y

\*RPCS driver has been discontinued.

\*XPS driver is not supported in the environment of terminal service and Citrix MetaFrame.

\*Even "Yes" is put in the cell, there is a case driver is not supported under the combination of FR and Service Pack of Meta Frame.

\*Following combinations of operating system and Citrix MetaFrame are supported.

Windows 2003 Server

1. Windows Terminal Service (RDP protocol)
2. Citrix PresentationServer4.0
3. Citrix PresentationServer4.5
4. Citrix XenApp5.0

Windows Server 2008

1. Windows Terminal Service (RDP protocol)
2. Citrix XenApp5.0

Windows Server 2008 R2

1. Windows Terminal Service (RDP protocol)
2. Citrix XenApp6.0

## Mac OS Environment

	PostScript3	Printer Utility for Mac
Mac OS 8.6 or later, Mac OS X classic	N	N
Mac OS X Native: v.10.2 or later*	Y	N

\* Mac OS X v10.0.x and v.10.1.x are not supported

## Supported Platforms for UNIX filters

UNIX Platforms	Version
Sun Solaris	2.6/7/8/9/10
HP-UX	10.x/11.x/11i v2/11i v3
Red Hat Linux	Enterprise V4, V5, V6
SCO OpenServer	5.0.6/5.0.7/6.0
IBM AIX	Version 5.3, 6.1, 7.1

## Novell Netware

Netware Server*	Supported Version	Netware 3.12/3.2/4.1.4.11.5.0/5.5/5.1/6.0 6.5
	Client OS	Windows XP professional/Vista/2008/7

\* *Optional*

## SAP R/3 Environment (Device Type/Barcode & PCR Package)

Supported Barcode & OCR Fonts	Barcode Fonts	Code 128, Code 39, Code 93, Codabar, 2 of 5 interleaved/Industrial/Matrix, MSI, USPS, UPC/EAN
Supported Environments	R/3 Version	3.x or later , mySAP ERP2004 or later
	Platform	Independent
	PDL	PCL5e
	Character Set	Latin 1(Western European), Latin 2 (Eastern European)
	Localization	English only
Supported Features		i.e. Input/Output Bin, Duplex, Stapling, Punching, Resolution, Collation, EconoMode / Toner Saving, Smoothing, Page Protect, Auto Tray Change/Opt Tray select
Supported Barcode & OCR Fonts*	Barcode Fonts	Code 128, Code 39, Code 93, Codabar, 2 of 5 interleaved/Industrial/Matrix, MSI, USPS, UPC/EAN
	OCR Fonts	OCR A, OCR B

\* Needs Barcode & OCR Package. (RE local solution) RAC is handling this function individually. RCL does not provide this package.



## Printer Driver Features

PCS Features	PCL5e	PCL6	Windows XP/ Vista/7	Mac OS X 10.2 or Later	XPS
Send to job Binding	N	N	N	N	N
Send to Document Server	Y	N	N	Y	Y
Sample Print	Y	Y	Y	Y	Y
Locked Print	Y	Y	Y	Y	Y
Hold Print	Y	Y	Y	Y	Y
Stored Print	Y	Y	Y	Y	Y
Stored Print(Shared)	Y	Y	N	N	N
Store and Print	Y	Y	Y	Y	Y
Store and Print(Shared)	Y	Y	N	N	N
Reduce/Enlarge(Zoom/Scaling)	Y*1	Y	Y	Y	Y
Reduce/Enlarge Centering	N	Y	N	N	N
Fit to Paper Size	Y	N	Y	Y	N
Unauthorized Copy Control	N	Y	Y	N	N
Layout(N-up, Page per sheet)	Y	Y	Y	Y	Y
Poster	N	N	N	N	N
Duplex	Y	Y	Y	Y	Y
Booklet1	N	N	N	N	N
Booklet2(Magazine)	Y	Y	N	N	Y
Non-Reduction Booklet	N	N	N	N	N
Watermark	Y	Y	Y	Y	N
Overlay	N	N	N	N	N
Header/Footer	N	N	N	N	N
Adjust Image Position	N	N	N	N	N
Binding Margins	N	N	N	N	N
Collate	Y	Y	Y	Y	Y
Punch	N	N	N	N	N
Staple	N	N	N	N	N
Cover Sheet(Front Cover)	N	N	N	N	N
Front and Back Cover	N	N	N	N	N
Slip Sheet	N	N	N	N	N
Chaptering	N	N	N	N	N
Rotate by 180 degrees	Y	Y	Y	Y	Y
Reverse Order Print	N	Y	Y	Y*2	Y
Do not print Blank Pages	N	N	N	N	N
Dithering	N	N	Y	Y	N
Toner Saving	Y	Y	Y	Y	Y
Black Over Print	N	N	N	N	N
CLP Color Simulation	N	N	N	N	N
Print Priority Setting :Quality	N	Y	N	N	N
Print Priority Setting :Speed	N	Y	N	N	N
Print Priority Setting :High Speed	N	Y	N	N	N
User ID	Y	Y	Y	Y	Y
User Code	Y	Y	Y	Y	Y
User Authentication	Y	Y	N	N	N
Encryption/Encoding	Y	Y	N	N	N
Mirror image Print	N	N	Y	N	N
Negative Image Print	N	N	Y	N	N
Edge to Edge Print	Y	Y	Y	Y	N
Limitation Setting	Y	N	N	N	N
Classification Code	Y	Y	N	N	N

\*1. "Centering" feature cannot be selected from PCL driver. However PCL has this feature as the original function.  
When printing with Reduce/Enlarge(Zoom) feature of PCL driver, the output will be automatically centered by the PCL's original centering function

\*2. This function is available on Mac OS 10.3 or later.

## ARDF DF1030

### Original Size:

#### Simplex:

5 .5" x 8.5" LEF/SEF (HLT) – 8 .5" x 14" SEF (LG) /  
A6 SEF, B6 SEF, A5 LEF/SEF - A4 SEF  
Vertical: 5" – 8 .5"/128 - 216mm  
Horizontal: 5 .5" -23.6" / 139.7 - 600mm

#### Duplex:

*\*Image quality of custom paper and A6/B6 is not guaranteed*  
5 .5" x 8.5" LEF/SEF (HLT) – 8 .5" x 14" SEF (LG) /  
A6 SEF, B6 SEF, A5 LEF/SEF - A4 SEF  
Vertical: 5"-8 .5" / 128 - 216mm  
Horizontal: 5.5" – 14" / 139.7 - 355.6mm  
*\*Image quality of custom paper and A6/B6 is not guaranteed*

### Original Weight:

#### Simplex:

14-34 lbs (52-128g/m<sup>2</sup>)

#### Duplex:

17-28 lbs (64-105 g/m<sup>2</sup>)

### Stack Capacity:

50-sheets based on 22 lbs / 81.4 g/m<sup>2</sup> paper  
20-sheets with paper weight over 81.4 g/m<sup>2</sup>

### Power Consumption:

20W or less

### Dimension (W x D x H):

18.7" x 14.5" x 3.1" (476 x 369 x 79.8mm)

### Weight:

7.7lbs or less (3.5kg or less)

## Paper Feed Unit PB1040

### Paper Size:

5 .5" x 8 .5" LEF (HLT) – 8 .5" x 14" SEF (LG)  
A5 SEF – A4 SEF

### Paper Weight:

16-24 lb bond (60 – 90g/m<sup>2</sup>)

### Paper Output Capacity:

500-sheets via internal tray

### Power Consumption:

Less than 26W

### Dimension (WxDxH):

17.3"x16.5"x5.5" (440.5 x 419.5 x 140mm)

### Weight:

Less than 13.3lbs.

Less than 6 kg

## MP 301SPF SERIES PRODUCT ORDER CODES

Product	Configuration Notes	Reorder Number	Bill of Material (BOM)
Aficio MP 301SPF	(1)	416185	MP301SP-R MP301SPF-S MP301SPF-L
<b>Copier Accessories</b>			
Paper Feed Unit PB1040 (500 x 1) Paper Bank	(2)	416203	
HDD Option Type 301	(3)	416195	
Cabinet, Type FAC57	(4)	416441	
Cabinet, Type FAC58	(5)	416442	
<b>Print/Scan Option Accessories</b>			
IEEE1284 Interface Board Type A	(6) (7)	411699	
IEEE802.11a/g Interface Unit Type J	(7)	414008	
Gigabit Ethernet Board Type A	(7)	402547	
Bluetooth Interface Unit Type D	(7)	415818	
VM Card Type U	(8)	416163	
File Format Converter Type E	(9)	414007	
Browser Unit Type G	(10)	416200	
SD Card for NetWare Printing Type I	(11)	416196	
Unicode Font Package for SAP 1 License	(12)	413009	
Unicode Font Package for SAP 10 License	(12)	413010	
Unicode Font Package for SAP 100 License	(12)	413011	
<b>Fax Accessories</b>			
Fax Connection Unit Type C	NA until Q3 2012	416194	
Handset Type C5502	(13)	416324	
<b>Security &amp; Misc. Accessories</b>			
Optional Counter Interface Unit Type A	(14)	413012	
Copy Data Security Unit Type F	(15)	413985	
DataOverwriteSecurity System (DOSS) Type I	(16)	416372	
ESP XG-PCS-15D	(17)	006428MIU	
Innovolt PP 120V 15A	(17)	005744MIU	
ACK3400-U Key Board	(18)	100266FNG	

**Notes:**

1. Mainframe includes Legal Size Platen, 250 Sheet Paper Tray, 100 Sheet Bypass Tray, 1 GB RAM Memory and 50 Sheet ARDF. The MP 301SPF comes standard with Copy, Scan, Print, G3 Fax capabilities and true Adobe PostScript3. **IMPORTANT** - Standard Internet Fax (T.37), LAN Fax, IP-Fax (T.38) and Fax Forwarding to Email functions require the HDD Option Type 301 (EDP Code 416195).
2. Up to two Optional PB1040 (416203) Paper Banks can be installed, bringing the maximum paper capacity to 1,350 sheets.
3. This option is available for installation on the MP 301SPF models and includes DOSS and HDD Encryption. The HDD is required to enable the following features: Paperless Fax, Local Fax Storage, Sample, Locked, Hold, Stored, Store and Print, Mail-to Print, S/MIME for Scan-to-Email, Advanced Security Features and Document Server.
4. Recommended with MP 301SPF ONLY. No Optional Paper Banks should be installed. (Tall Cabinet)
5. Recommended when one or two Optional PB1040's (416203) are installed. (Short Cabinet)
6. IEEE1284 is a Micro Centronics 36 pin cable. Converter adapter is required to connect to a Centronics connector. The adapter is available through Service Parts (p/n B6795100).
7. Only one of the following four options can be installed. IEEE 1284 Interface Board Type A (411699) or IEEE 802.11 a/g Interface Unit Type J (414008), Gigabit Ethernet Board Type A (402547) or Bluetooth Interface Unit Type D (415818). These options cannot be installed together.
8. Required for JAVA customization and installation of software solutions.
9. Required to convert format and drag to desktop documents stored via Copy or Print mode
10. Enables users to connect to software solutions
11. Available for Customers who require NetWare printing
12. Unicode Font Package for SAP - 1/10/100 seat license
13. Telephone Handset.
14. Required for 3rd party solutions requiring 20-pin connections.
15. Prevents unauthorized reproduction of confidential documents
16. This is an ISO 15408 Certified version of DOSS. Overwrites Copy, Print, Scanner, and Fax latent data
17. Ricoh Technology Solutions Support Center (TSSC) recommends the use of Power Protection products to minimize potential electrical interference
18. Optional external USB keyboard - (no bracket is available for this option)

## FREQUENTLY ASKED QUESTIONS

**1. What is Enhanced Media Print?**

Without starting a PC, users can print PDF, JPEG or TIFF data from USB memory or a SD card by directly inserting either into the standard USB/SD slot. In addition, users can utilize the “Preview Function” before printing files from the media, reducing the chance of printing the wrong file! *\*Competitors’ MFP devices do not offer “Preview” function for media print.*

**2. Can you print out E-mail attachments when using the browser options, or can you only print the page shown when using the browser?**

With the Browser Unit Type G for the MP 301, an operator can print out the page that is displayed on the operational panel, but opening the attachment of the E-mail and printing its content is not supported. Please note that variables such as access frames and flash content built into most websites may slow the process.

**3. What is the “Scheduling of Quota Management” function?**

This function enables administrators to reset the print volume use counters of each individual user or groups automatically by a designated period.

**4. Are there any file sizes or types that will not be recognized by the MFP when using the USB/SD card?**

In order to be recognized by the MFP, the file system of any USB memory device and SD card should be FAT16 or FAT32. Therefore, USB media with the file systems of New Technology Filing System (NTFS) the standard file system of Windows NT and Secure Digital Extended Capacity (SDXC), the memory card format used in portable devices, are not supported.

**5. What is “Homefolder over LDAP”?**

HomeDirectory information is registered on the LDAP server. Users can use the registered folder information as a destination for “Scan to Folder” with one touch operation after log-in, even though folder information is not registered on the MFP. HomeDirectory information registered on LDAP server can be copied to MFP’s address book automatically when LDAP authentication is enabled.

*\*User name and email address registered on the LDAP server can be also copied to the address data generated automatically in MFP.*

**6. Can I use a wireless USB keyboard on this machine?**

No, it must be hard wired only.

- 7. What is the major benefit for Import/Export Preference Settings?**  
System Administrators can output MFP's preference settings such as "System Settings", "Application Settings" and shortcut programs to an SD card, and they can apply the preference settings to the same model.  
*\*EDP code and option configurations must be same. Additionally, exported preference setting data can be used as back-up files for MFPs.*
- 8. What features are enabled by adding the optional Hard Disk Drive Option Type 301?**  
The hard disk drive is required for the following features:
- Personal Home Screen Setting (Customizable Home Screen)
  - Auto Job Promotion
  - Schedule Print
  - Document Server
  - Job Preset (set up next copy job in advance)
  - Enhanced Batch Scan
  - Quota Setting (User Account Limit)
  - Remote Fax option
  - Eco Counter by User (eco friendly indicator)
  - Data Encryption and DataOverwriteSecurity System (DOSS)
- 9. Does the MP 301 support envelope printing?**  
Yes, envelope printing is supported via the bypass tray only.
- 10. How is the TEC value improved on the MP 301?**  
By downsizing the fusing unit and adopting new design architecture, the TEC value has dramatically improved in addition to improving the recovery time from sleep mode and the warm up time.
- 11. What is the benefit of reduce/enlarge scan?**  
If there are different sized originals, users can scan them to a same size. Users can enlarge part of the images on the original and reuse them in other documents.
- 12. How many icons can you register on the Home Screen?**  
Users can register up to 72 icons on Home Screen. Up to 12 icons are displayed at a time when using the Standard Display mode; up to 8 icons are displayed when the Simple Display Mode is active.
- 13. What is Scan to PDF/A & Digitally Signed PDF?**  
This function enables users to scan paper documents to PDF/A format and make digitally signed PDF files.

- 14. What is the Auto Job Promotion feature?**  
When the MP 301 detects a mismatch between the programmed paper size and the media available to it, the job will be stored in memory as a Hold Print job until the error is corrected, allowing other jobs to be completed.
- 15. What is the “Eco Friendly Indicator”?**  
This function enables users to confirm the usage status of each user and a message from their administrators on a pop-up screen when they log-on to the MFP.
- 16. Is it possible to add other file formats to the Scan-To/Print-From Media function, such as .doc (Word), .xls (Excel), or .png?**  
No.

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