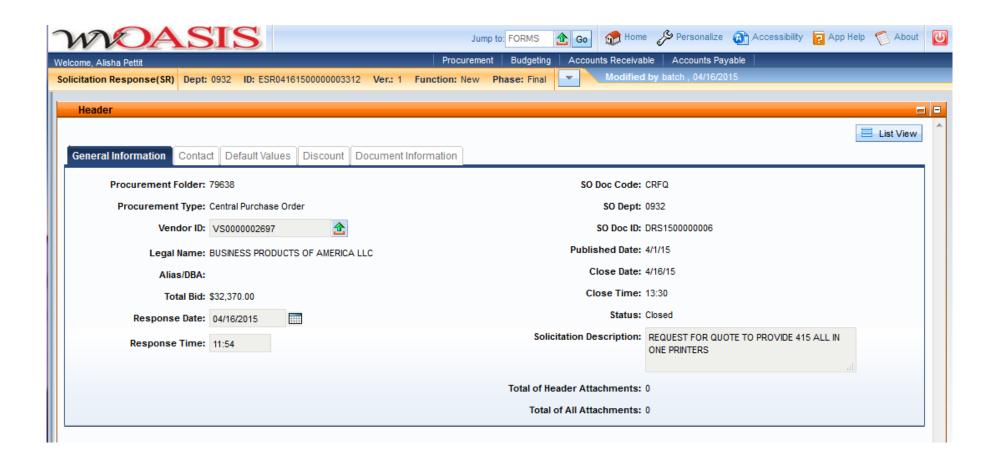


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026 Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.





#### Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

# **State Of West Virginia Solicitation Response**

Proc Folder: 79638

Solicitation Description: REQUEST FOR QUOTE TO PROVIDE 415 ALL IN ONE PRINTERS

Proc Type: Central Purchase Order

Date issued	Solicitation Closes	Solicitation No	Version
	2015-04-16 13:30:00	SR 0932 ESR04161500000003312	1

#### **VENDOR**

VS0000002697

BUSINESS PRODUCTS OF AMERICA LLC

FOR INFORMATION CONTACT THE BUYER

Evelyn Melton (304) 558-7023 evelyn.p.melton@wv.gov

Signature X FEIN # DATE

All offers subject to all terms and conditions contained in this solicitation

Page: 1 FORM ID: WV-PRC-SR-001

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	PRINTERS, HP OFFICE JET PRO 8610, OR EQUAL	415.00000	EA	\$78.00	

Comm Code	Manufacturer	Specification	Model #	
43212100				
Extended Descript	tion: PRINTERS - H	P OFFICE JET PRO 8610 OR EQUA	\L	

ADDENDUM NO. 2 IS ISSUED:

Page: 2



# Ricoh Aficio SG 3100SNw/ SG 3110SFNw



# **Everything looks better in color**

Brilliant, high-quality color doesn't have to come at a high price. Choose the RICOH® Aficio® SG 3100SNw/SG 3110SFNw GELJET multifunction printer and perform more tasks with incredible ease and value. This system combines the exceptional color, speed, duplexing and versatile media handling of a laser printer with the convenience and affordability of inkjet technology. Its fast-drying, waterproof viscous inks allow users to reduce full-color printing and copying costs without compromising quality. In addition, this multifunction printer offers standard wireless connectivity in a compact design for central placement to all users in home offices, workgroups, retail outlets, educational settings and large organizations.

#### **Enhanced features, productive results**

This versatile system prints up to 29 full-color or black-and-white pages per minute. Use the ID Card Copy feature to copy small, two-sided documents — including insurance cards, drivers' licenses, and more — onto one side of a sheet of paper. Print to the SG 3100SNw and SG 3110SFNw from personal mobile devices such as smartphones and tablets\*. Choose the SG 3110SFNw for more robust features, including PCL 5c/6 printing support and walk-up Super G3 faxing.

\*Using the Smart Device Print app.



#### Less space, more convenience

Ricoh engineered this lightweight system to fit seamlessly into any environment and any workflow — including wireless network connectivity — for convenient placement anywhere. With the front-access design, users can program jobs, load paper, clear misfeeds and replace print cartridges quickly and easily, whether the device is placed on a desk, in a cabinet or under a counter. It combines printing, scanning, copying and faxing in a single Windows- and Macintosh-compatible device, so users can manage more everyday tasks, including affordable color output, with ease and efficiency.



# Versatile media support, seamless operation

The SG 3100SNw/SG 3110SFNw comes standard with a 250-sheet paper capacity that can be expanded to 850 sheets to minimize interruptions without increasing footprint. This system accommodates a wide range of media sizes up to 8.5" x 14" and up to 90 lb. Index in paper weight. An optional 100-sheet Multi-Bypass Tray accommodates media as heavy as 140 lb. Index for envelopes, postcards and direct mail printing, plus stocks up to 51" long for in-house full-color banner and retail signage production (simplex only).





# Designed to give you more control of your environment

#### Intuitive administration, user-friendly controls

The SG 3100SNw/SG 3110SFNw is ideal for cost-conscious users who require affordable color output and multifunction performance for minimal investment. The angled 4-line LCD control panel offers intuitive controls and step-saving function buttons to speed workflow. Plus, administrators can use Web Image Monitor to track device status in real-time via any web browser and to receive maintenance email alerts. For added convenience, the SG 3110SFNw features a front USB 2.0 Host Interface for Scan-to-USB functionality and easy printing from PictBridge<sup>™</sup> enabled digital cameras.



#### Crisp, durable high-quality output

Enjoy laser quality at the inkjet price. The SG 3100SNw/SG 3110SFNw multifunction system produces brilliant color images with up to 3600 x 1200 dpi equivalent resolution for professional-looking documents. Ricoh's proprietary GELJET viscous inks are fast drying and water resistant. The viscous ink's fast-drying properties allow for reliable two-sided prints, copies, and faxes onto plain paper. Produce eye-catching color output onto heavyweight media, including postcards, menus, coupons and more – that won't smudge or bleed even when exposed to highlighters or moisture.



#### Eco-friendly commitment, exceptional value

The SG 3100SNw/SG 3110SFNw provides more green for you and for the environment. With automatic duplex printing, users can print on both sides of standard paper stocks to reduce paper consumption without compromising output quality. Economy Color Mode delivers high-quality drafts for about the same cost as black-and-white output. The permanent print heads never need replacing, and users can replace high-capacity print cartridges in seconds to simplify maintenance. The SG 3100SNw and SG 3110SFNw are economical and eco-friendly solutions that generate little heat and have low power consumption. In Energy Saver mode, these MFPs generate as little as 3W for the SG 3100SNw and 4W for the SG 3110SFNw.



## Ricoh Aficio SG 3100SNw/SG 3110SFNw

SYSTEM SPECIFICATIONS



**General Specifications** 

Ricoh Aficio SG 3100SNw Part # 405777 Ricoh Aficio SG 3110SFNw Part # 405780 Configuration Desktop Multifunction

Ink Type Pigment-based Viscous Ink (All four colors) Control Panel 16 characters x 4-line monochrome LCD High Speed Mode\*: Black & White: Print Speed

29 pages-per-minute (Letter) Full-Color: 29 pages-per-minute (Letter) 300 x 150 dpi using Ricoh Original Test Chart Speed Priority Mode\*\*: Black & White: 10.5 pages-per-minute (Letter) Full-Color: 9.0 pages-per-minute (Letter) (SG 3100SNw – RPCS)

Full-Color: 8.0 pages-per-minute (Letter) (SG 3110SFNw - PCL)

\*\*600 x 300 dpi using JEITA J6 Color Chart & JEITA J1 BW Chart Black & White: 5.5 seconds or less

First Print Speed Full-Color: 7 seconds or less 35 seconds or less (from main power

Recovery Time to Print Ready Mode switch on) Automatic Duplexing Standard Automatic Document 35 sheets Feeder

Paper Sizes

Standard Paper Tray and Optional Multi-Bypass Tray: Letter (8.5" x 11"), Legal (8.5" x 14"), Half Letter (5.5" x 8.5"), Executive (7.25" x 10.5"), F (8" x 13"), Folio (8.25" x 13"), Foolscap (8.5" x 13"), A4 (210 x 297 mm), A5 (210 x 148 mm),

A6 (105 x 148 mm)

Envelopes: Com10, Monarch, C6, C5, DL Custom Size (Standard Tray): 3.5" x 5.5" to 8.5" x 14" (88 x 139 mm – 216 x 356 mm) Custom Size (Optional Multi-Bypass Tray): 2.1" x 5.0" to 8.5" x 51" (55 x 127 mm -

216 x 1296 mm) Optional Paper Feed Unit: Letter (8.5" x 11"), Legal (8.5" x 14"), Executive (7.25" x 10.5"), F (8" x 13"), Folio (8.5" x 13"), Foolscap (8.25" x 13"), A4 (210 x 297 mm), A5 (210 x 148 mm), A6 (105 x 148 mm) Custom Size: 4.1" x 5.8" to 8.5" x 14" (105 x 148 mm - 216 x 356 mm) When Duplexing: 5.5" x 8.5", 7.25" x

10.5", 8.5" x 11

Standard Paper Tray: 16 – 42 lb. Bond/ Paper Weight 90 lb. Index (60 - 163 g/m²)

Optional Multi-Bypass Tray: 16 – 68 lb. Bond/140 lb. Index (60 – 256 g/m²) Optional Paper Feed Unit: 16 - 28 lb. Bond

(60 - 105 g/m²) Standard Paper 250-Sheet Paper Tray

100-Sheet Multi-Bypass Tray Optional Paper Supply 250-Sheet Paper Feed Unit (1 or 2 may

he added)

Maximum Paper 850 sheets

Output Capacity

100 sheets (Face up/Face down; User Selectable via print driver menus) Acceptable Paper Types Standard Paper Tray: Plain Paper, Inkjet

Plain Paper\*, Glossy Paper\*, Postcard, Inkjet Postcard, Envelope\* Optional Multi-Bypass Tray: Plain Paper,

Inkjet Plain Paper\*, Glossy Paper\*, Postcard, Inkjet Postcard, Envelope\*, Ontional Paper Feed Units: Plain Paper.

Inkjet Plain Paper\*, Glossy Paper

\*Simplex only 15.7" x 17.2" x 12.9" (399 x 436.5 x Dimensions (WxDxH)

329.5 mm) (mainframe only) 33.8 lb. (15.3 kg) 100-120 V, 50/60 Hz Weight Power Requirements

SG 3100SNw: Printing: 30.2 W; Power Consumption

Energy Saver: 3 W SG 3110SFNw: Printing: 30.4 W:

Energy Saver: 4 W

ENERGY STAR version 1.2 compliant US: UL60950-1, FCC Part 15, Subpart Safety Regulations

B/C/E Canada: CAN/CSA C22.2 No. 60950-1, IC ES-003, IC RSS-210

**Print Specifications** 

Print Resolution

Standard Interfaces

Network Protocols

Processor 800 MHz Memory SG 3100SNw: 192 MB RAM Std./Max.

(Printer: 64 MB + Scanner 128 MB) SG 3110SFNw: 256 MB RAM Std./Max (Printer: 128 MB + Scanner 128 MB) PCL 5c/6: 300 x 150, 600 x 300,

600 x 600 dpi

RPCS: 300 x 150, 600 x 300, 600 x 600, 600 x 1200, 1200 x 1200, 3600 x 1200 dpi

(equivalent)

13 International, 45 PCL (SG 3110SFNw

only)

SG 3100SNw: RPCS Raster Printer Languages/Driver SG 3110SFNw: RPCS Raster, PCL 5c,

PCL 6. PictBridge High-Speed USB 2.0 Type B,

10/100Base-TX Ethernet,

IEEE 802.11 b/g/n Wireless LAN TCP/IP (IPv4, IPv6)

Windows XP, Vista, Server 2003, Supported Environments Server 2008, 7

Mac OS X v.10.5+ Citrix Presentation Server 4.0+;

XenApp 5.0+ Novell NetWare via 3rd party gateway

Software Utilities Status Monitor

Web Image Monitor SmartDeviceMonitor

SmartDeviceMonitor for Admin Accounting

Report Package @Remote (limited support) DeskTopBinder Lite TWAIN Scanner Driver LAN Fax Driver (SG 3110SFNw)

**Copier Specifications** 

Maximum Copy Speed 29 copies-per-minute in B&W and Color

Up to 99 Multiple Copies Copy Resolution 300 x 300 dpi (default), 600 x 600 dpi 25% - 400% in 1% increments

Preset Reduction 65%, 78%, 93% Preset Enlargement 129%, 155%, 400% Image Density Automatic and Manual (5 levels)

Adjustment Original Type Selection

Text, Photo, Text & Photo Copier Features Combine Copy (2-in-1, 2-in-1 two-sided),

Color Settings (Color Balance, Sharper/ Softer, Contrast – 5 level scales), Eject Paper (face up or face down), Auto Reduce/Enlarge, Auto Tray Switching, Duplex Copy, ID Card Copy, Memory Copy, Poster Mode (RPCS only)

**Scanner Specifications** 

Processor 258 MHz Scanner Type

Full-color & Grayscale Optical Scan Resolution Up to 600 x 600 dpi maximum 100/150/200/300/400/600/1200 dpi TWAIN Resolutions Scan-to-Email, Scan-to-Folder (FTP/SMB), Scan-to Functions Scan-to-USB (SG 3110SFNw only)

Scan-to Resolutions 150 dpi. 300 dpi. 600 dpi Monochrome only

Supported File Formats TIFF, JPEG, PDF

Up to 150 scan destinations (shared with Address Book Capacity Fax on SG 3110SFNw)

Maximum Original Size Platen: 8.5" x 11.7 ADF: 8.5" x 14'

Facsimile Specifications (SG 3110SFNw only)

Compatibility

Super G3 33.6 Kbps with Auto Fallback to Modem Speed

2,400 bps MH, MR, MMR 5.5" x 5.5" to 8.5" x 14" Compression Types Original Size

200 x 100 dpi (standard), Fax Scan Resolutions 200 x 200 dpi (detail), 200 x 400 dpi (fine)

Fax Print Resolution 600 x 600 dpi One-Touch Dials 20 locations Broadcasting Up to 100 numbers

Address Book Capacity Up to 150 fax numbers (shared with Scanner on SG 3110SFNw) Fax Features

Auto Answer (user adjustable between 1 – 16 rings), Auto Redial, Delayed Send, Immediate Transmission, Internet Fax (T.37 Simple Mode) LAN Fax (150-entry Address Book), Memory Transmission,

On Hook Dial

Part # 405759

**Hardware Options** 

Multi-Bypass Tray Type BY1040

100 sheets

Capacity 2.1" x 5.0" - 8.5" x 51" Acceptable Paper Size

(55 x 127 to 216 x 1296 mm). Envelopes

Acceptable Paper Weight 16 – 68 lb. Bond/140 lb. Index (60 – 256 g/m²)

Dimensions (WxDxH) 14.8" x 9.2" x 9.0" (376 x 234 x 230 mm)

5 lb. (2.3 kg) Weight Paper Feed Unit Part # 405760

Type TK1160

Capacity

250 sheets (1 or 2 may be added) 4.1" x 5.8" – 8.5" x 14" (105 x 148 – 216 x 356 mm) Acceptable Paper Size

16 – 28 lb. Bond (60 – 105 g/m²) 15.7" x 14.1" x 3.5" (399 x 360 x 90 mm) Acceptable Paper Weight Dimensions (WxDxH) 11 lb. (5 kg) Weight

USB 2.0 A/B Cable<sup>3</sup> Part # 004051MIU

Lenath 6 feet

\*USB 2.0 cable is not included with main unit and must be purchased separately.

Consumables & Yields

Consumables Viald Part # Regular Yield Black Part # 405761 2.500 prints' Print Cartridge Regular Yield Cyan Part # 405762 2.200 prints\* Print Cartridge Regular Yield Magenta Part # 405763 2,200 prints' Print Cartridge Regular Yield Yellow Part # 405764 2.200 prints\* Print Cartridge

Waste Ink Collector Unit Part # 405783 27,000 prints'

\*Declared yield values in accordance with ISO/IEC 24711. Actual yields may vary based on types of images printed and other factors.

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

ecifications subject to change without notice

Advanced Exchange Warranty

The Ricoh Aficio SG 3100SNw and SG 3110SFNw Multifunction GelJet Printers are under warranty against defects for a period of one year from the date of purchase. Consumables are under warranty for a period of 90 days from the date of purchase or until depleted, whichever comes first. Please refer to warranty documents shipped with the product for more details.



www.ricoh-usa.com

















# HP Officejet Pro 8610 e

	Ricoh Aficio SG 3110SFNw	HP Officejet Pro 8610 e
BACKGROUND INFORMATION	19296/USA	12087/USA
Dataquest Segment	NA	
SRP/Street Price	\$271/\$ not avail	\$ not avail/\$129.99
Manufacturing Status	New	New
Part Number	405780	A7F64A
Domestic Intro Date	October 2012	April 2014
OEM	Ricoh (Japan)	HP (China)
Also Sold As	Lanier SG 3110SFNw; Savin SG 3110SFNw	None
Replacement Model		
Replacement Date		
Distributed By	Dealers, direct and distributors	Dealers, direct sales, retail channel and Internet
Max Monthly Duty Cycle	10,000 impressions	30,000 impressions
Recommended Monthly Volume	Info not avail	250 to 1,500 impressions
TYPE	Full-color printer, MF	Full-color printer, MF
Configuration/Scanner	Desktop,digital	Desktop,digital
Technology	Inkjet	Inkjet
GENERAL		
SPECIFICATIONS/PAPER		
HANDLING		
First Copy Time	18 sec color/18 sec black	18 sec color/14 sec black
Multicopy (Ltr/Lgl/Ldgr)	29 cpm color/29 cpm black	11 cpm color/13 cpm black
Warm-up Time	35 sec	Info not avail
Std Paper Source(s)	Single drawer	Single drawer
Std Paper Capacity	250 sheets	250 sheets
Paper Weights	16-lb bond to 90-lb index	16 to 28 lbs
Bypass/Paper Weights	Opt 100-sheet/16-lb bond to 140-lb index	None/Not applicable
Max Paper Sources	3	2
Max Paper Capacity	850 sheets	500 sheets
Max Original Size	8-1/2 x 14	8-1/2 x 14
Output Size (Min/Max)	5-1/2 x 8-1/2/8-1/2 x 14	3 x 5/8-1/2 x 14
Copy Resolution	600 x 600 dpi	600 x 600 dpi
System Memory (Std/Max)	256-MB RAM/256-MB RAM	128-MB RAM/128-MB RAM
Duplex	Auto (1:2,2:1)	Auto (1:2,2:2,2:1)
Duplex Capacity/Paper Sizes	Unlimited/5-1/2 x 8-1/2 to8-1/2 x 11	Unlimited/3 x 5 to8-1/2 x 14
Document Feeder	Std ADF	Std RADF
Doc Feeder Speed/Capacity	Info not avail/35 orig	Info not avail/35 orig
Paper Weights	13 to 28 lbs	16 to 24 lbs
Sorter (Bins/Capacity)	None	None
Staple Sorter	None	None
Bins/Stapling Capacity	Not applicable	Not applicable
Stapling Positions	Not applicable	Not applicable
Finisher	None	None

Tray/Stapling/Position(s)	Not applicable	Not applicable
Other	тех аррисало	Max speed (draft) 34 cpm color/34
		cpm black, up to 1200 x 600 dpi,150-
		sheet output tray
SECURITY SPECS		
Network User Authentication	Info not avail	Not applicable
IP Address Filtering	Yes	Not applicable
MAC Address Filtering	Info not avail	Not applicable
HDD Overwrite	Not applicable	Not applicable
Max Overwrites	Not applicable	Not applicable
HDD Encryption	Not applicable	Not applicable
Secure Print	Info not avail	Not applicable
Encrypted Secure Print	Info not avail	Not applicable
Encrypted PDF Mode (Encrypted	Info not avail	Not applicable
Scanning)		
IPsec	Yes	No
Secure Sockets Layer (SSL)	Yes	Yes
SNMPv3	Yes	Yes
Transport Layer Security	Yes	Yes
Other	POP, SMTP authentication	Device firewall configuration, control
	· ·	panel lock, password protect EWS,
		SSL/TLS (HTTPS), IPV6
CONTROL PANEL	Keypad	Color touch screen
Quantity Selector	1 to 99 (0 to 9 keypad)	1 to 99 (0 to 9 keypad)
Message Display	Yes	Yes
Help Key	No	Yes
FEATURES		
Automatic Features	ASO, ATS	Not applicable
Book Copy	No	No
Booklet Mode	No	No
Color	Std	Std
Copy Control	No	No
Covers	No	No
Editing	No	No
Energy-Save	Yes	Yes
Erase	No	Std
Image Insert	No	No
Image Overlay	No	No
Image Repeat	No	No
Image Rotate	No	No
Interrupt	No	Yes
Job Build	No	No
Job Programs	No	No
Job Time	No	No
Language	Std	Std
Margin Shift	No	Yes
Neg/Pos	No	No
OHP Interleaving	No	No
OT IT THICH CAVITY	INO	
Photo Mode	Yes	Yes
Photo Mode Poster Mode	Yes No	Yes No
Photo Mode Poster Mode Preset R/E	Yes No 6R, 5E	Yes No No
Photo Mode Poster Mode	Yes No	Yes No

Timer	No	Yes
2-in-1	Std	No
XY Zoom	Yes	No
Zoom Range	25 to 400 (1%)	25 to 400 (1%)
Other Features	User tools; economy color; ID card	Lighter/darker adjustment, ID Copy,
	copy; image density adjustment;	resize, cropping, copy preview
	text/photo mode; sharp/soft;	
	contrast	
ADDITIONAL INFORMATION		
Dimensions (HxWxD)	12.9" x 15.7" x 17.2"	11.8" x 19.7" x 25.5"
Weight	33.8 lbs	33.35 lbs
Power Requirements	110-120 V, 1.2 A	110-240 V, Amps not avail
Energy Used While Power Off	.12W	0.15W
Energy Used in Power Save Mode	3.47W	2.10W
Energy Used in Ready Mode	13W	6.40W
Energy Used While Copying	31W	INA
Energy Used While Printing	30.4W	INA
Energy Used While Scanning	INA	INA
Max Power Consumption	29.49W	29W
TEC Value	.981KWh	0.42KWh
Dedicated Outlet	Not required	Not required
Energy Star Compliant	Yes	Yes
Operating Noise Level	33.7 dB	64 dB
COMMENTS	None	None
OPTIONS		
	BY1040 Bypass tray 100 sheets (405759): \$168	Paper drawer 250 sheets (A8Z70A): \$79.99
	TK1160 Paper drawer 250 sheets (405760): \$184	
	Interface USB 2.0 (004051MIU): \$8	
SUPPLIES/MAINTENANCE		
	Black ink cartridge (405761): \$41;	HP 950 Black ink starter cartridge;
	Yield: 2,500; Coverage: ISO/IEC 24711	Yield: 1,000
	Black low-yield ink cartridge; Yield: 600	HP 951 Cyan ink starter cartridge; Yield: 700
	Cyan ink cartridge (405762): \$39;	HP 951 Magenta ink starter cartridge;
	Yield: 2,200; Coverage: ISO/IEC 24711	Yield: 700
	Cyan low-yield ink cartridge; Yield: 600	HP 951 Yellow ink starter cartridge; Yield: 700
	Magenta ink cartridge (405763):	HP 950XL Black high-yield ink
	\$39; Yield: 2,200; Coverage: ISO/IEC 24711	cartridge (CN045AN): \$36.99; Yield: 2,300; Coverage: ISO/IEC 24711
	Magenta low-yield ink cartridge; Yield: 600	HP 950 Black standard-yield ink cartridge (CN049AN): \$26.99; Yield: 1,000; Coverage: ISO/IEC 24711
	Yellow ink cartridge (405764): \$39; Yield: 2,200; Coverage: ISO/IEC 24711	HP 951XL Cyan high-yield ink cartridge (CN046AN): \$27.99; Yield: 1,500; Coverage: ISO/IEC 24711

	Yellow low-yield ink cartridge; Yield: 600	HP 951 Cyan standard-yield ink cartridge (CN050AN): \$19.99; Yield: 700; Coverage: ISO/IEC 24711
	Ink collector unit (405783): \$25; Yield: 27,000	HP 951XL Magenta high-yield ink cartridge (CN047AN): \$27.99; Yield: 1,500; Coverage: ISO/IEC 24711
	PM Schedule: Info not avail	HP 951 Magenta standard-yield ink cartridge (CN051AN): \$19.99; Yield: 700; Coverage: ISO/IEC 24711
		HP 951XL Yellow high-yield ink cartridge (CN048AN): \$27.99; Yield: 1,500; Coverage: ISO/IEC 24711
		HP 951 Yellow standard-yield ink cartridge (CN052AN): \$19.99; Yield: 700; Coverage: ISO/IEC 24711
		PM Schedule: None set
MULTIFUNCTION MODES		
Copier	Std	Std
Internet Fax	Std	Opt
Network Printer	Std	Std
Printer	Std	Std
Fax	Std	Opt
Network Fax	Std	No
PC Fax	Std	Std
Scanner	Std	Std
SPECIFICATIONS		
Operating System Support	Win XP, Server 2003, Vista, Server 2008, 7, Mac OS X 10.5+	Win XP, Server 2003, Vista, Server 2008, 7, 8, 8.1, Server 2011, Server 2012, Mac OS X 10.6, 10.7, 10.8, 10.9, Linux
Parallel Interface	None	None
PC Fax/Print/Scan	Not applicable	Not applicable
Serial Interface	None	None
PC Fax/Print/Scan	Not applicable	Not applicable
USB Interface	Std 2.0	Std 2.0, std 2.0 (host) x 2
PC Fax/Print/Scan	Yes/Yes/Yes	Yes/Yes/Yes
Network Interface	Std Ethernet, std wireless	Std Ethernet, std wireless
Interface Type	10/100BaseTX, 802.11b/g/n	10/100BaseTX, 802.11b/g/n
LAN Fax/Print/Scan	Yes/Yes/Yes	Yes/Yes/Yes
Networks Supported		
NetWare	Yes	Yes
Windows NT	Yes	No
AppleTalk	Yes	Info not avail
UNIX	Info not avail	No
AS/400	Info not avail	No
Other Platform	Net conficely:	Neteralizable
Embedded Software Platform	Not applicable	Not applicable
FACSIMILE SPECIFICATIONS	CCD	CIE
Scanner Technology	CCD	CIS

Compression Method	MH/MR/MMR	MH/MR/MMR/JBIG
Modem Speed	33.6 Kbps	33.6 Kbps
Max TX Resolution	Info not avail	300 x 300 dpi
Gray Scale/Halftones	Info not avail	256 levels
Std/Max Fax Memory	Info not avail	Info not avail/2-MB RAM
Min/Max Orig Size (WxL)	5-1/2 x 8-1/2/8-1/2 x 14	5.8 x 8.3/8-1/2 x 14
Max Paper/Print Width	8-1/28-1/2	8-1/2/Info not avail
Effective Scanning Width	8-1/2	8-1/2
Correct-Order Output	Info not avail	Yes
Batch Files	Info not avail	No
Battery Backup	Info not avail	No
Confid TX/RX	Yes/Info not avail	No/No
Dual Lines	Info not avail	No
Multi Access	Info not avail	No
Polling	Yes Info not avail	Yes
Relay Request		Yes
Smoothing	Yes	No
Timers	Info not avail	Yes
Transfer Hub	Info not avail	No
DIALING CAPABILITIES		
Broadcasting (Groups/Dest)	100/150	1/51
Redial (Attempts/Intervals)	Info not availInfo not avail	5/3 min
One Touch	20	Not applicable
Speed Dial	90	/99
Other	Fax modes: standard, detail, fine or	Two RJ-11 modem ports, fax
	photo	stamping, fax forwarding, junk fax
		blocker, fax dial prefix
PRINTER SPECIFICATIONS		
Engine Mfr & Model	Ricoh/Info not avail	Info not avail/Info not avail
Compatibility	PC, Mac	PC, Mac
Speed	8 ppm color/10.5 ppm black*	14.5 ppm color/19 ppm black
First-Page-Out Time	7 sec color/5.5 sec black	13 sec color/12 sec black
Max Print Area	Info not avail	Info not avail
Enhanced Resolution	3600 x 1200 dpi	4800 x 1200 dpi
Unenhanced Resolution	1200 x 1200 dpi	1200 x 1200 dpi
Std/Max Printer Memory	Shared	Shared
Controller Mfr/Model	Ricoh/Info not avail	Info not avail
Processor/Bits/MHz	Info not availInfo not avail//800	Info not avail/Info not avail/600
PDL/PCL	PCL5c/6, RPCS	PCL 3
Controller Mfr/Model	Not applicable	Not applicable
Processor/Bits/MHz	Not applicable	Not applicable
PDL/PCL	Not applicable	Not applicable
Controller Mfr/Model	Not applicable	Not applicable
Processor/Bits/MHz	Not applicable	Not applicable
PDL/PCL	Not applicable	Not applicable
Other	*Based on speed priority mode; std	Mobile printing capability includes HP
Other	PictBridge	ePrint, Apple AirPrint, Android OS
	TotBridge	Enablement Printing
SCANNED AND IMAGE		Litablement i finting
SCANNER AND IMAGE		
MANAGEMENT SPECIFICATIONS		
·····	Ni-terral HOD	Nickers
Connection Type	Network, USB	Network
Technology/Speed		I IS 16 IDM COLOR 6 IDM block
T commoney, apaca	CCD/5.8 ipm color, 11.6 ipm black	CIS/6 ipm color, 6 ipm black
Max Resolution	600 x 600 dpi	1200 x 1200 dpi

TWAIN Compatible	Yes	Yes
Scan Destinations		
E-mail	Yes	Yes
I-fax	Yes	No
FTP	Yes	No
SMB	INA	Yes
HDD	INA	No
URL	INA	No
LDAP Support	Yes	Yes
File Formats Supported	JPEG, PDF, TIFF	Bitmap, JPEG, PDF, PNG, Rich Text, Searchable PDF, Text, TIFF
Scan/Image Software	Opt DesktopBinder Lite	HP Scan (standard), Integrated OCR (optional)
OCR Software	Info not avail	Integrated Iris Pro (optional), Standalone Iris Pro (optional)
File Mgmt Software	Opt DesktopBinder Lite	Info not avail
Other	Scan to USB	Scan size maximum Flatbed: 8.5 x 11/216 x 279 , ADF: 8.5 x 14/216 x 356
COMMENTS		
	Utilizes GelSprinter Piezo based ink; black, cyan, magenta and yellow print cartridges; opt utilities include Web Image Monitor, SmarDeviceMonitor, DesktopBinder Lite and Remote Communication Gate S Pro	Dimensions are with trays extended; 2.65" CGD touchscreen; ships with a black starter toner cartridge yielding 1,000 pages and CMY starter cartridges each yielding 700 pages; one-year warranty

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Highly Recommended
Excellent
5,000 Impressions
0
0
0
Very Good
Good
Good
Good
Very Good
Good
Good
Very Good
Very Good
Very Good
Fair
Good
Good
Fair
Fair
Very Good
Good
Excellent
Very Good
3,286
2,967
3,021
3,021
5.237
Excellent

The ratings included in this side-by-side comparison have been excerpted from BLI's Lab Test Reports. BLI doesn't determining a device's overall rating. Please see BLI's published Lab Test Reports for more details. Additional inform available on the Content Guides page in the Support section of bliQ.

Key **Highly Recommended:** Assigned to a device that has displayed outstanding overall performance throughout BLI's lab test. Recommended: Assigned to a device that has demonstrated good overall performance throughout BLI's lab test. **Recommended with Notations:** Assigned to a device that is Recommended by BLI, but with specific caveats. Not Recommended: Assigned to a device that has significant shortcomings in performance categories that would be important to any document imaging device buyer. Not Applicable: Calculation requires at least two misfeeds, service calls and/or failures to have occurred on the tested device. Blank Cell: Appears when that category doesn't apply to the device, c in a case where the report format has changed. May Vary from Similar Device Tested: Appears for an untested device that's similar to a tested

device, but the results of the tested device could be different than those of the untested device.

Category Ratings:

Excellent, Very Good, Good, Fair, Poor

weigh all aspects of performance equally nation on the terms used in the Ratings Ta



	RICON ATICIO SG 31105FNW
Strengths	<ul> <li>Highly reliable—flawless durability performances and simple procedures for adjusting the drawer, loading media and replacing cartridges limit downtime</li> <li>Low TCO over 36 months compared with competitive inkjet and laser devices tested</li> <li>Offers excellent overall value based on TCO, performance and features</li> <li>Fast first-print times from overnight sleep and ready mode versus competitive inkjet all-inones and small workgroup color laser/LED MFPs tested; fast running speed when printing the job stream in color mode compared with competitive inkjet devices; fast running speeds when copying sets versus the inkjet group</li> <li>Fast scan speeds compared with competitive inkjet all-in-ones tested; scanned files are autocompressed by default</li> <li>Full grayscale range, smooth transitions from light to dark shades in black-and-white photos, and solids had consistent coverage, all in print mode</li> <li>No visible ink transfer when water was dripped across output, or an alkaline-based highlighter was used on output; only very slight smearing when an acid-based highlighter was used</li> <li>Standard automatic duplexing and Economy Color conserve resources and help lower cost</li> </ul>
Weaknesses	Slow job stream speeds when printing versus competitive laser/LED MFPs Slow running speed when printing sets in black mode versus competitive inkjets, as well as in both modes compared with the laser group Slow running speeds when copying sets in both modes versus competitive inkjet and laser devices Color and black copy quality was grainy, inconsistent and, overall, below average

OJ Pro 8610e Not Submitted for Testing
 7



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Weaknesses	Slow job stream speeds when printing versus competitive laser/LED MFPs     Slow running speed when printing sets in black mode versus competitive inkjets, as well as in both modes compared with the laser group     Slow running speeds when copying sets in both modes versus competitive inkjet and laser devices     Color and black copy quality was grainy, inconsistent and, overall, below average

OJ Pro 8610e Not Submitted for Testing



Copy Productivity: Black			
Manufacturer's Rated Speed		10.5 CPM	
Document Feeder First-Copy-O	ut Time	16.07 Seconds	
Paper Size		8-1/2" x 11"	
	# of Sets	СРМ	Efficiency
	1	9.7	92.5%
1:1	5	10.9	104.0%
Simplex Mode	10	INA	INA
	20	INA	INA
	Average		98.3%

<b>Copy Productivity: Full Color</b>			
Manufacturer's Rated Speed		8 CPM	
Document Feeder First-Copy-O	ut Time	24.14 Seconds	
Paper Size		8-1/2" x 11"	
1:1 Simplex Mode	# of Sets	СРМ	Efficiency
	1	5.1	63.5%
	5	8.6	107.2%
	10	INA	INA
	20	INA	INA
	Average		85.4%

Print Productivity: Black				
Manufacturer's Rated Speed		10.5 PPM		
Job Stream Speed		8.3 PPM		
Job Stream Efficiency				79.4%
Paper Size		8-1/2" x 11"		
	# of Sets		PPM	Efficiency
	1		11.4	108.8%
1:1	5		11.7	111.7%
Simplex Mode	10		INA	INA
	20		INA	INA
	Average			110.3%

<b>Print Productivity: Full Color</b>				
Manufacturer's Rated Speed		8 PPM		
Job Stream Speed		8.4 PPM		
Job Stream Efficiency				105.0%
Paper Size		8-1/2" x 11"		
	# of Sets		PPM	Efficiency
	1		10.7	133.9%
1:1	5		10.9	136.0%
Simplex Mode	10		INA	INA
	20		INA	INA
	Average			135.0%

Scan Productivity: Black	
Paper Size	8-1/2" x 11"
Scan to E-Mail Speed	IPM
Single-Sided Originals	10.5

Scan Productivity: Full Color	
Paper Size	8-1/2" x 11"
Scan to E-Mail Speed	IPM
Single-Sided Originals	3.5

Key

Manufacturer's Rated Speed:

Originals:

**Document Feeder First-Copy-Out Time:** 

Job Stream Speed: Job Stream Efficiency:

Copy Modes:

**Print Modes:** 

# of Sets:

CPM / IPM / PPM:

Efficiency: Average: INA:

"--":

The manufacturer's advertised speed (copies per minute [ Describes the type of originals (single sided or two sided) The time it takes in seconds for a copy to completely exit t The speed at which the device runs at when completing B The percentage of the device's advertised running speed a

1:1 Simplex Mode: Single-sided original to single-sided copy 1:2 Duplex Mode: Single-sided original to two-sided copy 2:2 Duplex Mode: Two-sided original to two-sided copy

1:1 Simplex Mode: Single-sided print 1:2 Duplex Mode: Two-sided print

Indicates the number of sets produced of BLI's 10-page tw Copies per minute / Images per minute / Prints per minute The percentage of the device's advertised running speed a The overall efficiency of the device for the tests completed Information not available. Test was not performed on the c

Not applicable

Copier productivity tests are based on tests performed by BLI using a variation of ASTM Standard Test Method F131 BLI tests a unit's copy productivity by making multiple sets (the number of sets depends on the rated speed of the de two-sided test original in three copy modes (1:1, 1:2 and 2:2).

BLI tests a unit's print productivity by printing multiple sets (the number of sets depends on the rated speed of the de Word document test file.

BLI's job stream includes Word documents, Outlook e-mail messages, Excel spreadsheets, PowerPoint, HTML and test simulates the type of traffic a typical device might experience in a real-world, multi-user environment.

BLI tests a device's scan speed by sending BLI's 10-page two-sided test original to an e-mail address as a 300-dpi I determined by measuring the time it takes for BLI's 10-two-sided test original to feed through the document feeder.

Additional information on productivity and BLI's test methodology is available in the Help section on bliQ. See Gloss of Contents.

cpm] or pages pe used in the scan tes the device when a cop Ll's job stream tes at which it produce

ro-sided test origina . Entries under this at which the unit ran i l. The overall efficient devic

18 with 8-1/2" x 1 evice) of BLI's 10-pa(

vice) of BLI's 10-paç

Acrobat PDF files. Th

PDF file. Scan speed

ary of Terms in the  $\ensuremath{\text{Ta}}$ 



Overall Rating		****	
Energy Consumption And Costs	3	2223	
Projected Annual Output		12,672 pages (48 per workday: 2 jobs of 19	
. rejected rumadi Garpar		pages each and 2 jobs of 5 pages each)	
		21.9000 kWh	
Projected Annual CO2 Emissi		34.7 lbs	
Projected Annual Energy Cos	~~~*	\$2.32	
Cost per 1,000 pages		\$0.18	
Tested Energy Use By Mode		ψο. 10	
Simplex Monochrome Copy		0.028 kWh	
Simplex Color Copy		0.027 kWh	
Simplex Monochrome Print		0.022 kWh	
Simplex Color Print		0.022 kWh	
Duplex Monochrome Copy		0.027 kWh	
Duplex Color Copy		0.025 kWh	
Duplex Monochrome Print		0.022 kWh	
Duplex Color Print		0.022 kWh	
Idle Mode		0.012 kWh	
Sleep mode during Overnight	Dormancy	0.002 kWh	
Warm-up Power from Overnig		0.0001 kWh	
Tested Toner Yield	grit Gioop	0.0001 1.0011	
Recovery Time			
Idle Mode		9	
Sleep Mode (During Daily Use	9)	12	
Sleep Mode (After Sitting Dor		18	
Runnability with 30% Recycled		****	
		安安安安安	
		4444	
Noise Emissions	······································		
Sound Test at Front: Docume	nt Feeder	57.5 dB	
Sound Test at Front: Simplex		57 dB @ Inner Trav	
	ument Feeder	65 dB	
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Environmentally Friendly Featu		***	
Automatic Duplexing	Print	Yes	
	Сору	Yes	
Intelligent Duplex	Print	No	
	Сору	No	
Default Color Mode	Print	Full Color	
	Сору	Full Color	
Auto Color Mode	Print	No	
Runnability with 75% Recycled Runnability with 50% Recycled Runnability with 100% Recycled Noise Emissions Sound Test at Front: Docume Sound Test at Front: Simplex Sound Test at Front: Duplex Sound Test at 30° Angle: Doc Sound Test at 30° Angle: Dup Environmentally Friendly Featu Automatic Duplexing Intelligent Duplex Default Color Mode	Paper Paper Paper d Paper nt Feeder sument Feeder plex plex res Print Copy Print Copy Print Copy	57 dB @ Inner Tray 61 dB @ Doc Feeder 65 dB 54 dB @ Inner Tray 58 dB @ Doc Feeder  Yes Yes No No Full Color Full Color	

		Сору	No
Output All Text as Black	Print	Yes	
		Сору	Yes
Toner-Save M	1ode	Print	Yes
		Сору	Yes
Recycled Pap	er Mode	Print	Yes
		Сору	Yes
Job Review		Print	No
		Сору	No
Blank-Page R	emoval	Print	Yes
		Сору	Yes
Proof Mode		Print	No
		Сору	No
N-up Mode		Print	Up to 16
		Сору	Up to 4
	Ited to duplex m		No
	duct documenta		Both
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	e display remain	
		mode at its set	No
	ce automatically		Yes
Environmental		rop in Duplex S	Speed Versus Simplex Speed
Color	Print 1:2	Tested Speed	
		% Drop	
	Copy 1:2	Tested Speed	
		% Drop	
Black	Print 1:2	Tested Speed	
		% Drop	
	Copy 1:2	Tested Speed	
		% Drop	
Environmental	Features—Sle	ep Mode Functi	onality
	ces for Copy me		2.22
Does the mad	hine start scann	ing immediately	No
Scan/copy job into memory/network?			Yes
Fax/scan without full machine warm-up		warm-up	No
Release private/stored jobs?			No
Does the oper	rator have full ac	cess to the	No



	Micoli Alicio 30 3	1 1001 14W
Recycling		
Packaging		
Eco Product Labels		
Energy Star	Yes	
Chemical Emissions (mg/h)		
Use of Hazardous Materials		
<b>International Directive Complia</b>	ance	

