ComColor X1 Series
Full-Line Product Brochure

RISO

9150
ComColor

X1

1 A4
2 A4
3 A3

SPEED UP YOUR COLOR COMMUNICATIONS

RISO

Enhance Workflow Efficiency Streamline Print Production

The RISO ComColor X1 Series combines the world's fastest print speeds (up to 150 pages per minute) with low running costs, increased productivity and reliability, for superior performance.

ComColor X1 Series

**Productive | Efficient | Reliable | Eco-friendly**

The World's Fastest[1]

150 pages per minute[2] sets new standards in full-color print production

The RISO ComColor, the fastest printer of its kind, can print 1,000 full-color single-sided pages in approx. 6.5 minutes. Startup takes no more than 5 seconds[3]. Print jobs are completed quickly, and the results leave a lasting impression.

Time to print 1,000 full-color A4/letter long-edge feed simplex pages
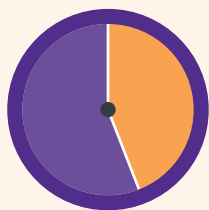
Conventional color office printer
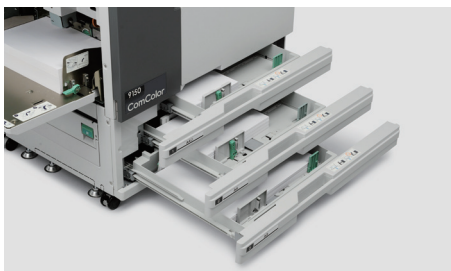**Approx. 25 min.**
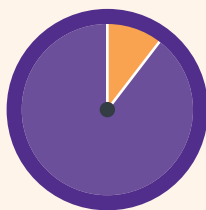
ComColor 9150
Approx. 6.5 min.

Productive and Versatile Features Achieve Best Results

Flexible Paper Feeding

Maximize paper capacity for high-speed printing by utilizing multiple paper trays. Paper feeds horizontally beneath the print heads in a short straight path, contributing to high print speeds and increased reliability.

Designed for Longevity

The ComColor, engineered for high-production environments, is built to last. Proven durability through millions of prints.
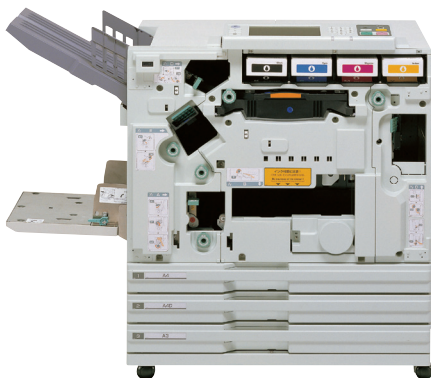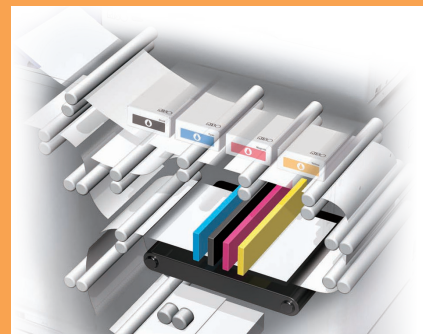
Improved Paper Handling

Unique capabilities broaden the range of paper stocks and sizes that can be reliably printed at high speeds. The wide variety of paper stocks includes envelopes and lightweight paper.

*1 Applicable to ComColor 9150 and 9110. A4 long-edge feed, simplex, continuous printing in standard mode, based on office color printers using cutsheet commercially available as of November 2012 (Source: RISO data).

*2 A4 long-edge feed, simplex, continuous printing, plain paper (85 gsm (23-lb bond) in standard mode (print density setting 3). Chart used: Print measurement pattern [Color measurement sample 2 (JEITA standard pattern J6)].

*3 Within 10 minutes after the last print job.

*4 Only available with ComColor 9150, 7150, and 3150.

ENGINE TECHNOLOGY FORCEJET™

RISO Technology Drives High-Speed, Large-Volume Printers to New Heights

In-line Inkjet Print Heads

Four wide in-line inkjet heads arranged in parallel allow very speedy full-color printing of A3/ledger-size paper in a single pass. Eight-step control per ink drop per color dot assures excellent results with fine tonal gradations.

Special Fast-Drying Ink

To suit the ultra high-speed duplex printing capabilities of the ComColor, RISO developed special fast-drying, fade-resistant, water-resistant oil-based inks that prevent set-off and paper curl.

Stable Paper Feeds

A reliable paper-feeding mechanism paves the way for high-speed printing with minimal print offset. Paper-feeding speed is intelligently controlled according to how much ink sprays from the print head. Also, multiple sensors help to keep paper jams and other problems to a minimum.
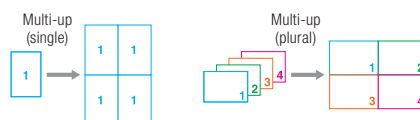
Reduced Costs

To minimize ink consumption and maintain optimal print quality, RISO's standard color profile intelligently controls the quantity of ink drops used for each individual color, according to the paper type, to effectively reproduce the original image.

Save Even More Paper and Ink

Auto Color Mode

For documents that include monochrome and color pages, the auto color mode can reduce costs by automatically detecting the presence or absence of color, which controls ink usage to minimize ink in consumption.

Single Color Printing

Print using one color (black, cyan or magenta) for a colorful effect with reduced ink consumption.

Black   **Cyan**   **Magenta**

Multi-Up Printing

Combine multiple copies of the same page, or copies of multiple pages onto a single printed page to save paper. Conveniently condense bulky multiple page documents in an easy-to-read format.
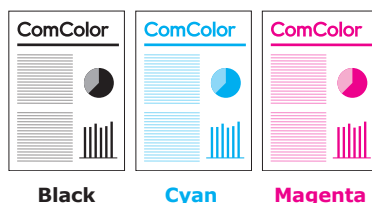
Multi-up (single)

Multi-up (plural)

Blank Page Removal

Automatically omits blank pages in documents saving both time and paper, and further reduces running costs.

This function is only available when using printer driver. In cases without data, header/footer included pages will not be recognized as blank pages.

Superior Simplicity

With improved performance and functions, ComColor provides convenience and simplicity for the user.

Easy Operation and Ink Replenishment
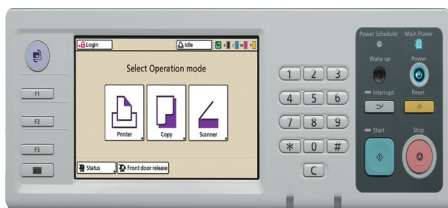
Color LCD Touch Screen

Functions for printing, copying, scanning and managing data are at your fingertips, logically arranged for intuitive operation on a large LCD touch screen.

Easy-to-Change Ink Cartridges

Replenishing ink is clean and easy with slim ink cartridges and the ComColor's clever design.

Direct Printing from a USB Flash Drive

For direct printing even when the machine is not connected to a network, simply insert a USB flash drive containing the data into the machine's USB slot. Direct printing not only saves time—the image quality is improved over scanned originals.

The data for direct printing needed to be RISO original format (PRN format).

Superior Quality

ComColor consistently delivers quality prints.

Impressive Image Quality on Standard Paper and Envelopes

Advanced Ink Formulation for Higher Quality Output

Newly developed ink technology, ComColor X1, reduces ink see-through and improves black ink density.

Improved Envelope Printing

Envelope printing is improved with an enhanced paper feeding mechanism for reliable envelope handling and a new image-processing printer driver function for enhanced image quality.

Secure Printing

PIN Code Enhances Security

PIN code security lets you simply specify a PIN code when sending confidential jobs to the ComColor. When the job is ready to be printed, enter the PIN code on the ComColor control panel to release the job. The job cannot be viewed or printed without authentication.

IC Card Authentication Kit

This optional kit prevents unauthorized use and controls the print job easily. Only authorized users are issued an access IC card* and details of print usage such as the number of copies and frequency of usage of each authorized staff member are stored for later retrieval and analysis.

*Applicable card: ISO 14443 Type A/Type C

Various Functions Optimize Output

• Mixed-Size Printing

When printing originals of mixed sizes into a single document, the size of each original is automatically detected for printing on appropriately sized paper.

• Full-Area A3/Ledger Print

The system is compatible with A3/ledger wide paper and the edges can be cut to produce full-area A3/ledger prints.

• Photo and Line Mode

Choose from two print modes to enhance quality. Select photo mode for printing photographs with natural tones. Select line mode to make text and lines of illustrations look clearer.

• Line Smoothing

Line smoothing helps reduce or eliminate unsightly jagged edges that tend to appear, particularly in large fonts and illustrations.

Paper output direction

A3

Max. printable area
314 mm x 548 mm

Max. paper size
340 mm x 550 mm

Line smoothing OFF

Line smoothing ON

COPY

SCAN

PRINT

Folder
Save data

PDF/TIFF/JPEG
Format

SEND

PC (Via a web browser)

Server PC (Shared folder)

USB Flash Drive

PC (Via e-mail)
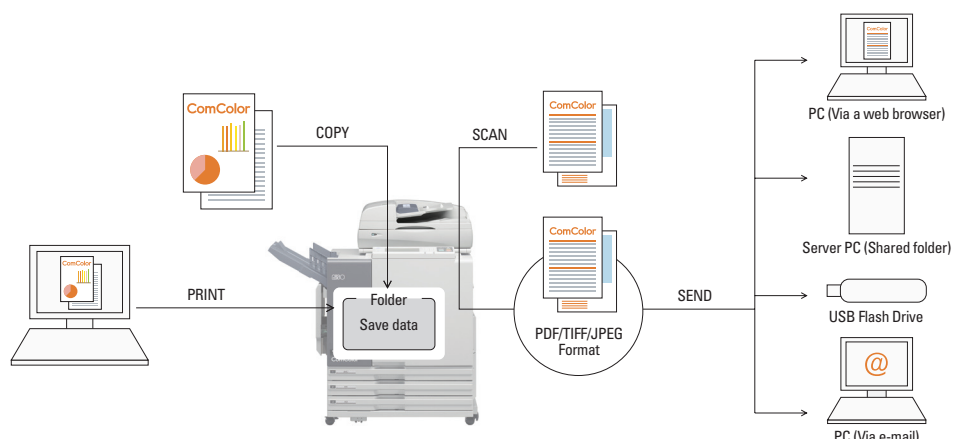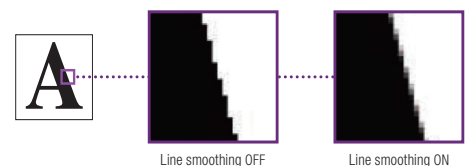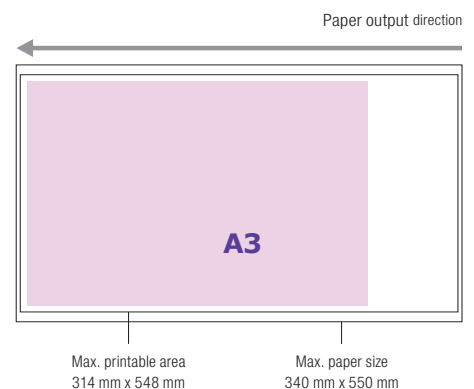
Eco-Friendlier Than Ever

RISO ComColor 9150 reduces power consumption to an all-time low with the introduction of automatic power shut-off. The ComColor is ENERGY STAR® certified* and boasts many other energy-efficient innovations. The ComColor technology is truly green.

* In limited regions.

Lower Power Consumption

Now, standby and sleep modes consume even less power than previous models. Power consumption when printing is just 0.15 Wh per sheet.

ENERGY STAR

Standby Power Consumption

ComColor 9150
Less than 150 W
Previous Model
Less than 250 W

Sleep Mode Power Consumption

ComColor 9150
Less than 5 W
Previous Model
Less than 45 W

Power Consumption Per Sheet

ComColor 9150
Approx. 0.15 Wh
Previous Model
Approx. 0.22 Wh

Power Schedule Function

This new function is a convenient energy saver. Automatically set the printer's system power ON and OFF at desired times. Schedule times to power ON so the printer is ready when neccessary, and power OFF when it is not required.

Noise Reduction

ComColor 9150 runs quieter than previous models. Operational noise is reduced by implementing nine distinct noise-reduction improvements. This "quiet design" suppresses both running and standby noise, providing a comfortable printing environment.

Increase Capabilities

Productivity-enhancing accessories automate workflow from start to finish. Take control of print jobs with flexible options. High-capacity feeding and stacking, and various finishing functions streamline production and eliminate the need for outsourcing.

Continuous High-Capacity Printing

High Capacity Feeder

Maximize high-speed printing benefits with this option that enables uninterrupted, unattended, high-volume print runs without pausing to reload paper.

Maximum stacking height: 440 mm (17 5/16")
Paper weight: 46 gsm to 210 gsm
(12-lb bond to 56-lb bond)
Paper size: 90 mm x 148 mm to 340 mm x 460 mm
(3 9/16" x 5 13/16" to 13 3/8" x 18 1/8")

High Capacity Stacker

This option allows stacking of larger output volumes, reducing user intervention. Stacker cart neatly and easily transports finished prints.

Maximum stacking height: 440 mm (17 5/16")
Paper weight: 46 gsm to 210 gsm (12-lb bond to 56-lb bond)
Paper size
Without offset: 90 mm x 148 mm to 340 mm x 460 mm
(3 9/16" x 5 13/16" to 13 3/8" x 18 1/8")
With offset: 90 mm x 182 mm to 340 mm x 432 mm
(3 9/16" x 7 3/16" to 13 3/8" x 17")
Automatic paper guide control
Offset stacking
High speed switchback unit

Efficient Data Processing

Standard Sorting and Grouping by Quantity

ComColorExpress IS1000C

Various functions are available, such as form printing (for combining data to a saved form), header/footer function (for adding page numbers or text), merge function (for combining various saved data into one job) and tray select function (for selecting trays per page).

Advanced Adobe® PostScript® 3™
controller handles complex high-volume. variable data and graphic-intensive jobs.

CPU: Intel® Xeon® E3-1275 3.4GHz
Memory: 8 GB
HDD: 500 GB
ComColorExpress IS1000C or IS950C required for Mac compatibility.

ComColorExpress IS950C

Basic Adobe® PostScript® 3™

CPU: Intel® Pentium® G850 2.9GHz
Memory: 2 GB
HDD: 500 GB
ComColorExpress IS1000C or IS950C required for Mac compatibility

Paper smaller than B4, 80 gsm or less

Scanner HS5000

The auto feeder enables scanning of double-sided originals of up to 100 sheets of paper at a time. Documents can quickly and easily be copied, scanned or stored in PDF, TIFF, and JPEG formats.

Scanning Speed: Simplex: 50 ppm, Duplex: 24 ppm
Initial Copy Time: less than 7 seconds
Maximum Scanning Area:
 Flat Bed: 303 mm × 432 mm (11 15/16" × 17")
 Auto-Document Feeder: 295 mm × 430 mm (11 5/8" × 16 15/16")
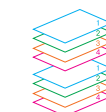**Scanning Resolution:** 600 dpi
Output Resolution: Standard: 300 dpi × 300 dpi, Fine: 300 dpi × 600 dpi

Collate Function

Use the collate function to group output either by sort for printing and sorting a desired number of copies in page order. Or by group for printing and sorting the copies by page group.
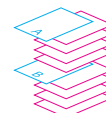
Sorting by page order

Sorting by page group

Program Print

Set specific print quantities for each group, up to 60 groups.

Slip Sheet

Insert slip sheets between prints at desired quantity intervals. This feature can be used for inserting a cover page on each copy printed in a batch, for example.

Inserting slip sheets

Inserting cover pages

Four Versatile Main Functions: Stapling, Punching, Folding, and Binding

Multifunction Finisher II

Intelligent inline functions performed automatically simplify the finishing processes.

• **Stapling**
Stapling options include one corner staple or two staples for up to 100 sheets[*] of paper.

• **Punching**
Holes can be punched through documents. Choose two/three holes in the U.S., or two/four holes elsewhere.

• **Folding**
Various automatic folding options are available (inward; outward; for A3/ledger-to-A4/letter sheet footprint reductions; and two-fold for up to five sheets making a 20-page booklet).

• **Booklet Making**
Automatic saddle stitch stapling of up to 60 pages (15 sheets).

* When using plain paper and recycled paper, 85 gsm (23-lb bond).

Face Down Offset Stapler

Compact option exclusively for offset stacking and stapling finished prints. Stapling options include one corner staple or two staples for up to 50 sheets[*1].

Paper Size: Without offset: 90 mm x 148 mm to 340 mm x 550 mm
 (3 9/16" x 5 13/16" to 13 3/8" x 21 5/8")
Maximum Stacking Height: Up to 108 mm (4 1/4")[*2]
Output Speed: Normal: 150 ppm[*3], Offset: 120 ppm[*3],
 Stapling: 42 ppm[*3] (simplex/duplex)

*1 When using plain paper and recycled paper, 85 gsm (23-lb bond).
*2 When using B5, A4, B4, A3, Letter, Leger, Legal, Foolscap.
*3 When using the ComColor 9150, long-edge feed, simplex.

5

Streamline Workflows

Maximize the ComColor's high-speed printing performance with in-line systems for binding on-demand book printing and printing inserts enclosed in a sealed and addressed envelope. Available only for the 7150 and 9150.

Print to Mail Solution
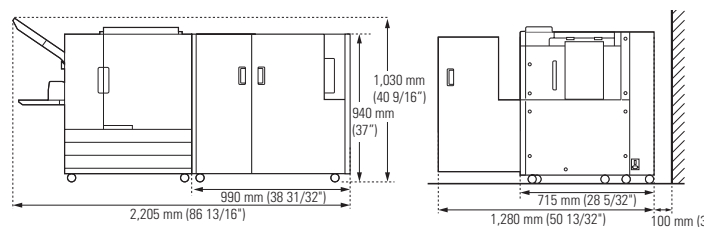

2,200 envelopes/hour
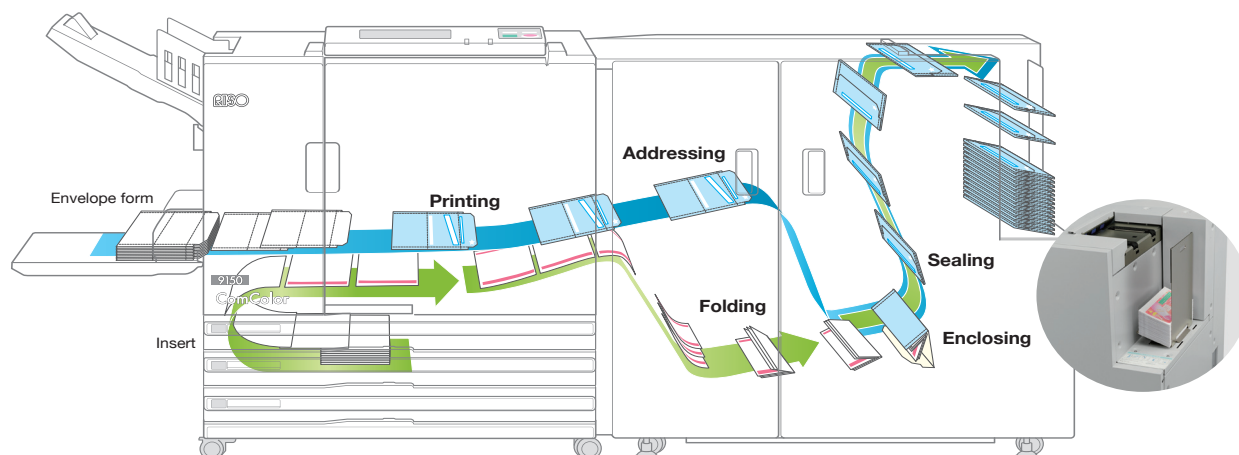
Automatic High-Speed Process

Approximately 2,200 completed mail pieces can be produced in an hour*. The one-step process streamlines printing, addressing, enclosing, folding and sealing—greatly increasing productivity.

* Enclosing one A4/letter simplex copy.

Compact Installation Space-Print to Mail

The RISO In-line Print to Mail Solution delivers powerful performance by combining the functions of a high-speed printer, high-speed folding machine, and high-speed inserter into one compact and convenient office unit.

1,030 mm (40 9/16")
940 mm (37")
990 mm (38 31/32")
2,205 mm (86 13/16")
715 mm (28 5/32")
1,280 mm (50 13/32")
100 mm (3

Wrapping Envelope Finisher is compatible with 9150/7150 model.

The RISO In-line Print to Mail Solution is comprised of RISO's Wrapping Envelope Finisher and ComColor 9150/7150 printer.
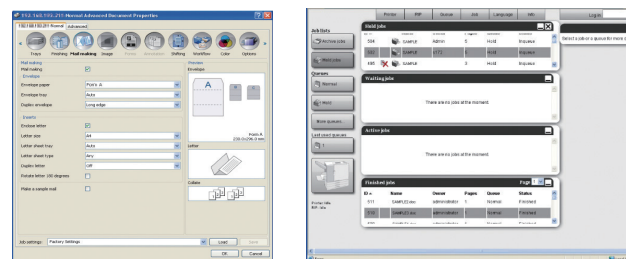
Increase Confidentiality

In-line process from print to mail eliminates inserting errors and secures privacy.

Reduce Costs and Time

Cost-effective printing of envelopes and contents, along with automatic finishing significantly reduces costs. In-line process cuts production time by seamlessly integrating the steps from print to mail. Reliable system drastically increases uptime.

Improve Communication Effectiveness

Achieve results with dynamic, relevant communications. Personalized envelopes increase open and response rates. Colorful, transactional printing is the key to success.

6

Perfect Binder

Printed cover sheet

Printed body pages

Jogging

Blank cover sheet

Printing

Binding

Gluing

Trimming

Blank print paper

High-Speed Production

● **Color printer + Binding machine + Cutting machine**

Total time

approx. **330** min.*2

Manual labor
Automatic operation

120 min   150 min   60 min

● **ComColor + Perfect Binder**

Print and Bind

170 min

Manual labor
Automatic operation

Total time

approx. **170** min.*2
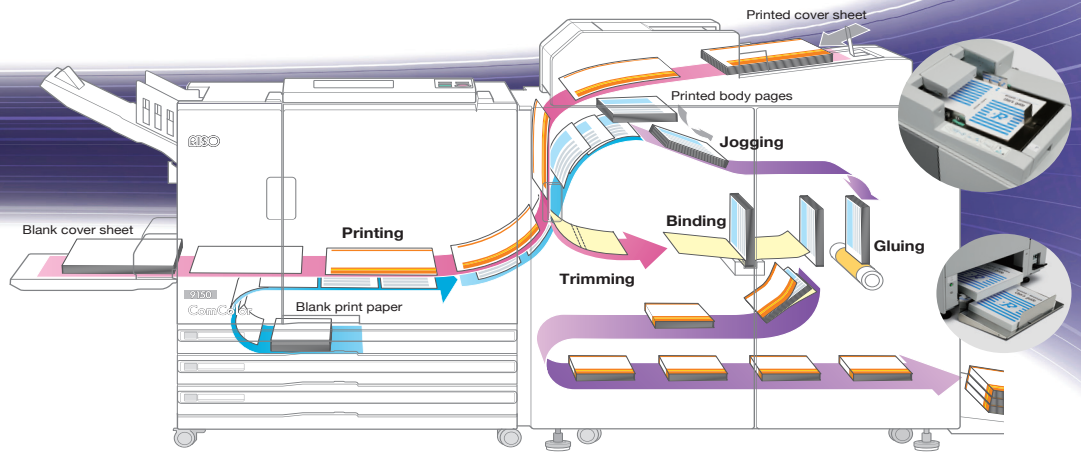
Sixty 100-page books of A4/letter size can be bound in an hour*1. Print and bind on-demand reduces inventory and costs.

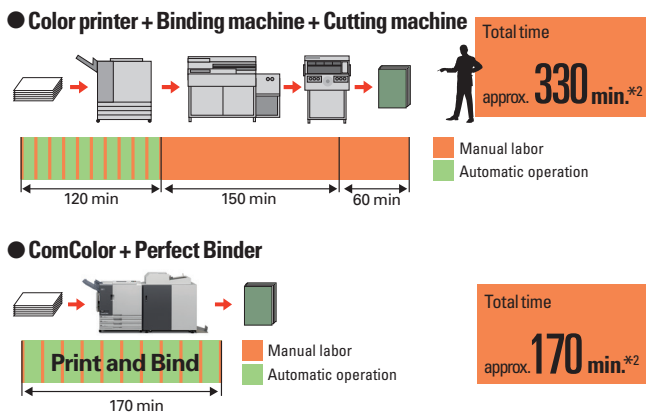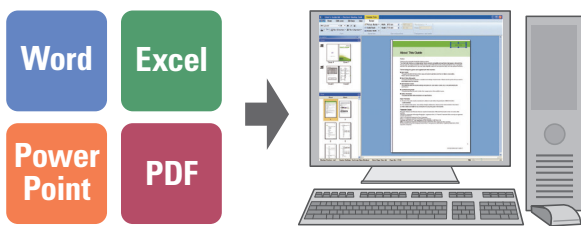*1 When connecting with ComColor 9150. *2 Source: RISO data.

Word   **Excel**

Power Point   **PDF**

Simple and Intuitive Operation

• **Reliable In-Line Production**

Seamless automated process offers intuitive and user-friendly features.

• **No Need for Sophisticated Software**

The software included is compatible with Microsoft® Word, Microsoft® Excel®, Microsoft® Power point® and Adobe® PDF.

• **Cover Layout Creation**

Covers can be easily created using the dedicated application software. Layouts even allow for printing on spine.

• **Error Proofing via Preview Function**

Preview function allows complete control, reducing errors and maximizing efficiency.

Maximum Thickness: 30 mm

Perfect binder can accomodate varying book thicknesses up to 600 pages. Handles binding form 1.5 mm to 30 mm (approx. 15 sheets to 300 sheets).

30 mm
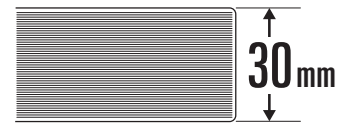
Low Running Costs

Cost-effective color printing, combined with automatic in-line binding significantly increases productivity and reduces cost. Efficient in-line process eliminates the need for outsourcing.

Compact Installation Space-Perfect Binder

Delivering powerful 3-in-1 performance, RISO's Perfect Binder Solution seamlessly handles high-speed printing, in-line binding and in-line cutting, in a single compact system.

1,125 mm (44 9/32")

1,290 mm (40 9/16")

2,490 mm (98 1/32")

675 mm (26 3/8")

1,240 mm (48 13/16")   100 mm (3 15/16")
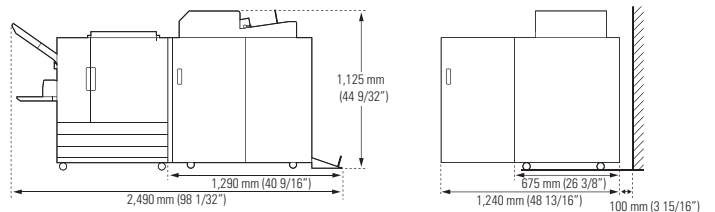
The RISO Perfect Binder Solution is comprised of RISO's Perfect Binder and ComColor 9150/7150 printer.

Requires printed cover sheet when operating with the ComColor 9110/7110 model (printing and binding cannot be performed simultaneously).

Surplus Part

Back cover Front cover

Inside front cover   Inside back cover

Inside front cover   Inside back cover
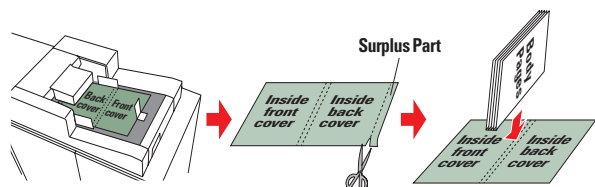
Automatic sizing and trimming

Cover is automatically trimmed to size according to book thickness for a professional finish.

7

Specifications		ComColor 9150	ComColor 9110
Print Type		Line-type inkjet system	Line-type inkjet system
Ink Type		Oil-based pigment ink (Cyan, Magenta, Yellow, Black)	Oil-based pigment ink (Cyan, Magenta, Yellow, Black)
Resolution	Standard	300 dpi (main scanning direction) × 300 dpi (subscanning direction)	300 dpi (main scanning direction) × 300 dpi (subscanning direction)
	Fine	300 dpi (main scanning direction) × 600 dpi (subscanning direction)	300 dpi (main scanning direction) × 600 dpi (subscanning direction)
Number of Gray Levels		For each CMYK color (8 gray levels)	For each CMYK color (8 gray levels)
Data Processing Resolution	Standard	300 dpi × 300 dpi	300 dpi × 300 dpi
	Fine	300 dpi × 600 dpi	300 dpi × 600 dpi
	Line Smoothing	600 dpi × 600 dpi	600 dpi × 600 dpi
Warm-up Time		2 min. 45 sec. or less (at room temperature of 20℃ (68°F))	2 min. 45 sec. or less (at room temperature of 20℃ (68°F))
First Print Time		5 sec. or less[1] (when copying A4/Letter long-edge feed using color mode)	5 sec. or less[1] (when copying A4/Letter long-edge feed using color mode)
Continuous Print Speed[2][6]	A4 Long-Edge Feed	Simplex: 150 ppm, Duplex: 75 sheets/minute (150 ppm)	Simplex: 150 ppm, Duplex: 75 sheets/minute (150 ppm)
	Letter Long-Edge Feed	Simplex: 146 ppm, Duplex: 73 sheets/minute (146 ppm)	Simplex: 146 ppm, Duplex: 73 sheets/minute (146 ppm)
	A4 Short-Edge Feed	Simplex: 110 ppm, Duplex: 55 sheets/minute (110 ppm)	Simplex: 110 ppm, Duplex: 55 sheets/minute (110 ppm)
	Letter Short-Edge Feed	Simplex: 116 ppm, Duplex: 58 sheets/minute (116 ppm)	Simplex: 116 ppm, Duplex: 58 sheets/minute (116 ppm)
	B4/Legal Short-Edge Feed	Simplex: 90 ppm, Duplex: 42 sheets/minute (84 ppm)	Simplex: 90 ppm, Duplex: 42 sheets/minute (84 ppm)
	A3 Short-Edge Feed	Simplex: 80 ppm, Duplex: 40 sheets/minute (80 ppm)	Simplex: 80 ppm, Duplex: 40 sheets/minute (80 ppm)
	Ledger Short-Edge Feed	Simplex: 78 ppm, Duplex: 39 sheets/minute (78 ppm)	Simplex: 78 ppm, Duplex: 39 sheets/minute (78 ppm)
Paper Size	Standard Tray	Maximum: 340 mm × 550 mm (13 3/8" × 21 5/8") Minimum: 90 mm × 148 mm (3 9/16" × 5 13/16")	Maximum: 340 mm × 550 mm (13 3/8" × 21 5/8") Minimum: 90 mm × 148 mm (3 9/16" × 5 13/16")
	Feed Tray	Maximum: 297 mm × 420 mm (11 11/16" × 17") Minimum: 182 mm × 182 mm (7 3/16" × 7 3/16")	
Printable Area		Maximum: 314 mm × 548 mm (12 3/8" × 21 9/16")	Maximum: 314 mm × 548 mm (12 3/8" × 21 9/16")
Guaranteed Print Area[3]	Standard	Margin width of 3 mm (1/8")	Margin width of 3 mm (1/8")
	Maximum	Margin width of 1 mm (0.04")	Margin width of 1 mm (0.04")
Paper Weight	Standard Tray	46 gsm (12-lb bond) to 210 gsm (56-lb bond) (plain paper)	46 gsm (12-lb bond) to 210 gsm (56-lb bond) (plain paper)
	Feed Tray	52 gsm (14-lb bond) to 104 gsm (28-lb bond) (plain paper)	
Paper Feed Method/ Paper Tray Capacity	Standard Tray	Height up to 110 mm (4 5/16")	Height up to 110 mm (4 5/16")
	Feed Tray	Height up to 50 mm (1 15/16") (× 3 trays)	
Output Tray Capacity	Standard	Height up to 60 mm (2 3/8")	Height up to 60 mm (2 3/8")
Page Description Language		RISORINC/CIII	RISORINC/CIII
Supported Protocols		TCP/IP, HTTP, HTTPS (SSL), DHCP, ftp, lpr, IPP, SNMP, Port 9100 (RAW port), IPv4, IPv6, IPsec	TCP/IP, HTTP, HTTPS (SSL), DHCP, ftp, lpr, IPP, SNMP, Port 9100 (RAW port), IPv4, IPv6, IPsec
Supported Operating Systems		Microsoft® Windows® XP (32-bit) Microsoft® Windows Server® 2003 (32-bit/64-bit) Microsoft® Windows Server® 2003 R2 (32-bit/64-bit) Microsoft® Windows Vista® (32-bit/64-bit) Microsoft® Windows Server® 2008 (32-bit/64-bit) Microsoft® Windows Server® 2008 R2 (64-bit) Microsoft® Windows® 7 (32/64-bit) Microsoft® Windows® 8 (32/64-bit)[8] Microsoft® Windows Server® 2012 (64-bit)[8]	Microsoft® Windows® XP (32-bit) Microsoft® Windows Server® 2003 (32-bit/64-bit) Microsoft® Windows Server® 2003 R2 (32-bit/64-bit) Microsoft® Windows Vista® (32-bit/64-bit) Microsoft® Windows Server® 2008 (32-bit/64-bit) Microsoft® Windows Server® 2008 R2 (64-bit) Microsoft® Windows® 7 (32/64-bit) Microsoft® Windows® 8 (32/64-bit)[8] Microsoft® Windows Server® 2012 (64-bit)[8]
Network Interface		Ethernet 1000BASE-T, 100BASE-TX, 10BASE-T	Ethernet 1000BASE-T, 100BASE-TX, 10BASE-T
Memory Capacity		1 GB	1 GB
Hard Disk[4]	Capacity	320 GB	320 GB
	Available Space	280 GB	280 GB
Operating System		Linux	Linux
Power Source		AC 100-240 V, 10-5 A, 50-60 Hz	AC 100-240 V, 10-5 A, 50-60 Hz
Power Consumption		Maximum: 1,000 W Ready[5]: 150 W or less Sleep[7]: 5 W or less Stand-by: 0.5 W or less	Maximum: 1,000 W Ready[5]: 150 W or less Sleep[7]: 5 W or less Stand-by: 0.5 W or less
Operating Noise		Max. 66 dB (when printing without optional equipment connected)	Max. 66 dB (when printing without optional equipment connected)
Operating Environment	Temperature	15℃ to 30℃ (59°F to 86°F)	15℃ to 30℃ (59°F to 86°F)
	Humidity	40% to 70% RH (non-condensing)	40% to 70% RH (non-condensing)
Dimensions (W × D × H)	In use	1,220 mm × 705 mm × 1,030 mm (48 1/32" × 27 3/4" × 40 9/16")	1,220 mm × 705 mm × 1,030 mm (48 1/32" × 27 3/4" × 40 9/16")
	Cover and feed trays closed	1,155 mm × 705 mm × 1,010 mm (45 15/32" × 27 3/4" × 39 3/4")	1,155 mm × 705 mm × 1,010 mm (45 15/32" × 27 3/4" × 39 3/4")
Required Space (W × D × H)	Cover and feed trays opened	1,220 mm × 1,240 mm × 1,030 mm (48 1/32" × 48 13/16" × 40 9/16")	1,220 mm × 1,240 mm × 1,030 mm (48 1/32" × 48 13/16" × 40 9/16")
Weight		Approx. 171 kg (376 lb)	Approx. 149 kg (328 lb)

Specifications are subject to change without notice.

ComColor X1 Series

Specifications		ComColor 7150	ComColor 7110
Print Type		Line-type inkjet system	Line-type inkjet system
Ink Type		Oil-based pigment ink (Cyan, Magenta, Yellow, Black)	Oil-based pigment ink (Cyan, Magenta, Yellow, Black)
Resolution	Standard	300 dpi (main scanning direction) × 300 dpi (subscanning direction)	300 dpi (main scanning direction) × 300 dpi (subscanning direction)
	Fine	300 dpi (main scanning direction) × 600 dpi (subscanning direction)	300 dpi (main scanning direction) × 600 dpi (subscanning direction)
Number of Gray Levels		For each CMYK color (8 gray levels)	For each CMYK color (8 gray levels)
Data Processing Resolution	Standard	300 dpi × 300 dpi	300 dpi × 300 dpi
	Fine	300 dpi × 600 dpi	300 dpi × 600 dpi
	Line Smoothing	600 dpi × 600 dpi	600 dpi × 600 dpi
Warm-up Time		2 min. 45 sec. or less (at room temperature of 20ºC (68ºF)	2 min. 45 sec. or less (at room temperature of 20ºC (68ºF)
First Print Time		5 sec. or less[*1] (when copying A4/Letter long-edge feed using color mode)	5 sec. or less[*1] (when copying A4/Letter long-edge feed using color mode)
Continuous Print Speed[*2*6]	A4 long-edge feed	Simplex: 120 ppm, Duplex: 60 sheets/minute (120 ppm)	Simplex: 120 ppm, Duplex: 60 sheets/minute (120 ppm)
	Letter long-edge feed	Simplex: 120 ppm, Duplex: 60 sheets/minute (120 ppm)	Simplex: 120 ppm, Duplex: 60 sheets/minute (120 ppm)
	A4 short-edge feed	Simplex: 90 ppm, Duplex: 45 sheets/minute (90 ppm)	Simplex: 90 ppm, Duplex: 45 sheets/minute (90 ppm)
	Letter short-edge feed	Simplex: 90 ppm, Duplex: 45 sheets/minute (90 ppm)	Simplex: 90 ppm, Duplex: 45 sheets/minute (90 ppm)
	B4/Legal short-edge feed	Simplex: 76 ppm, Duplex: 38 sheets/minute (76 ppm)	Simplex: 76 ppm, Duplex: 38 sheets/minute (76 ppm)
	A3 short-edge feed	Simplex: 66 ppm, Duplex: 33 sheets/minute (66 ppm)	Simplex: 66 ppm, Duplex: 33 sheets/minute (66 ppm)
	Ledger short-edge feed	Simplex: 66 ppm, Duplex: 33 sheets/minute (66 ppm)	Simplex: 66 ppm, Duplex: 33 sheets/minute (66 ppm)
Paper Size	Standard Tray	Maximum: 340 mm × 550 mm (13 3/8" × 21 5/8") Minimum: 90 mm × 148 mm (3 9/16" × 5 13/16")	Maximum: 340 mm × 550 mm (13 3/8" × 21 5/8") Minimum: 90 mm × 148 mm (3 9/16" × 5 13/16")
	Feed Tray	Maximum: 297 mm × 420 mm (11 11/16" × 17") Minimum: 182 mm × 182 mm (7 3/16" × 7 3/16")	Maximum: 314 mm × 548 mm (12 3/8" × 21 9/16") Standard: Margin width of 3 mm (1/8")
Printable Area		Maximum: 314 mm × 548 mm (12 3/8" × 21 9/16")	Maximum: Margin width of 1 mm (0.04")
Guaranteed Print Area[*3]		Standard: Margin width of 3 mm (1/8") Maximum: Margin width of 1 mm (0.04")	
Paper Weight	Standard Tray	46 gsm (12-lb bond) to 210 gsm (56-lb bond) (plain paper)	46 gsm (12-lb bond) to 210 gsm (56-lb bond) (plain paper)
	Feed Tray	52 gsm (14-lb bond) to 104 gsm (28-lb bond) (plain paper)	
Paper Feed Method/ Paper Tray Capacity	Standard Tray	Height up to 110 mm (4 5/16")	Height up to 110 mm (4 5/16")
	Feed Tray	Height up to 50 mm (1 15/16") (× 3 trays)	
Output Tray Capacity	Standard	Height up to 60 mm (2 3/8")	Height up to 60 mm (2 3/8")
Page Description Language		RISORINC/CIII	RISORINC/CIII
Supported Protocols		TCP/IP, HTTP, HTTPS (SSL), DHCP, ftp, lpr, IPP, SNMP, Port 9100 (RAW port), IPv4, IPv6, IPsec	TCP/IP, HTTP, HTTPS (SSL), DHCP, ftp, lpr, IPP, SNMP, Port 9100 (RAW port), IPv4, IPv6, IPsec
Supported Operating Systems		Microsoft® Windows® XP (32-bit) Microsoft® Windows Server® 2003 (32-bit/64-bit) Microsoft® Windows Server® 2003 R2 (32-bit/64-bit) Microsoft® Windows Vista® (32-bit/64-bit) Microsoft® Windows Server® 2008 (32-bit/64-bit) Microsoft® Windows Server® 2008 R2 (64-bit) Microsoft® Windows® 7 (32/64-bit) Microsoft® Windows® 8 (32/64-bit)[*8] Microsoft® Windows	Microsoft® Windows® XP (32-bit) Microsoft® Windows Server® 2003 (32-bit/64-bit) Microsoft® Windows Server® 2003 R2 (32-bit/64-bit) Microsoft® Windows Vista® (32-bit/64-bit) Microsoft® Windows Server® 2008 (32-bit/64-bit) Microsoft® Windows Server® 2008 R2 (64-bit) Microsoft® Windows® 7 (32-bit/64-bit) Microsoft® Windows® 8 (32-bit/64-bit)[*8] Microsoft®
Network Interface		Ethernet 1000BASE-T, 100BASE-TX, 10BASE-T	Ethernet 1000BASE-T, 100BASE-TX, 10BASE-T
Memory Capacity		1 GB	1 GB
Hard Disk[*4]	Capacity	320 GB	320 GB
	Available Space	280 GB	280 GB
Operating System		Linux	Linux
Power Source		AC 100-240 V, 10-5 A, 50-60 Hz	AC 100-240 V, 10-5 A, 50-60 Hz
Power Consumption		Maximum: 1,000 W Ready[*5]: 150 W or less Sleep[*7]: 5 W or less Stand-by: 0.5 W or less	Maximum: 1,000 W Ready[*5]: 150 W or less Sleep[*7]: 5 W or less Stand-by: 0.5 W or less
Operating Noise		Max. 66 dB (when printing without optional equipment connected)	Max. 66 dB (when printing without optional equipment connected)
Operating Environment	Temperature	15ºC to 30ºC (59ºF to 86ºF)	15ºC to 30ºC (59ºF to 86ºF)
	Humidity	40% to 70% RH (non-condensing)	40% to 70% RH (non-condensing)
Dimensions (W × D × H)	In use	1,220 mm × 705 mm × 1,030 mm (48 1/32" × 27 3/4" × 40 9/16")	1,220 mm × 705 mm × 1,030 mm (48 1/32" × 27 3/4" × 40 9/16")
	Cover and feed trays closed	1,155 mm × 705 mm × 1,010 mm (45 15/32" × 27 3/4" × 39 3/4")	1,155 mm × 705 mm × 1,010 mm (45 15/32" × 27 3/4" × 39 3/4")
Required Space (W × D × H)	Cover and feed trays opened	1,220 mm × 1,240 mm × 1,030 mm (48 1/32" × 48 13/16" × 40 9/16")	1,220 mm × 1,240 mm × 1,030 mm (48 1/32" × 48 13/16" × 40 9/16")
Weight		Approx. 171 kg (376 lb)	Approx. 149 kg (328 lb)

Specifications are subject to change without notice.

Specifications		ComColor 3150	ComColor 3110
Print Type		Line-type inkjet system	Line-type inkjet system
Ink Type		Oil-based pigment ink (Cyan, Magenta, Yellow, Black)	Oil-based pigment ink (Cyan, Magenta, Yellow, Black)
Resolution	Standard	300 dpi (main scanning direction) × 300 dpi (subscanning direction)	300 dpi (main scanning direction) × 300 dpi (subscanning direction)
	Fine	300 dpi (main scanning direction) × 600 dpi (subscanning direction)	300 dpi (main scanning direction) × 600 dpi (subscanning direction)
Number of Gray Levels		For each CMYK color (8 gray levels)	For each CMYK color (8 gray levels)
Data Processing Resolution	Standard	300 dpi × 300 dpi	300 dpi × 300 dpi
	Fine	300 dpi × 600 dpi	300 dpi × 600 dpi
	Line Smoothing	600 dpi × 600 dpi	600 dpi × 600 dpi
Warm-up Time		2 min. 45 sec. or less (at room temperature of 20ºC (68ºF))	2 min. 45 sec. or less (at room temperature of 20ºC (68ºF))
First Print Time		5 sec. or less[*1] (when copying A4/Letter short-edge feed using color mode)	5 sec. or less[*1] (when copying A4/Letter short-edge feed using color mode)
Continuous Print Speed[*2*6]	A4 Short-Edge Feed	Simplex: 90 ppm, Duplex: 45 sheets/minute (90 ppm)	Simplex: 90 ppm, Duplex: 45 sheets/minute (90 ppm)
	Letter Short-Edge Feed	Simplex: 90 ppm, Duplex: 45 sheets/minute (90 ppm)	Simplex: 90 ppm, Duplex: 45 sheets/minute (90 ppm)
	Legal Short-Edge Feed	Simplex: 76 ppm, Duplex: 38 sheets/minute (76 ppm)	Simplex: 76 ppm, Duplex: 38 sheets/minute (76 ppm)
Paper Size	Standard Tray	Maximum: 340 mm × 550 mm (13 3/8" × 21 5/8")	Maximum: 340 mm × 550 mm (13 3/8" × 21 5/8")
		Minimum: 90 mm × 148 mm (3 9/16" × 5 13/16")	Minimum: 90 mm × 148 mm (3 9/16" × 5 13/16")
	Feed Tray	Maximum: 297 mm × 420 mm (11 11/16" × 17")	
		Minimum: 182 mm × 182 mm (7 3/16" × 7 3/16")	
Printable Area		Maximum: 210 mm × 544 mm (8 1/4" × 21 7/16")	Maximum: 210 mm × 544 mm (8 1/4" × 21 7/16")
Guaranteed Print Area[*3]		Standard: Margin width of 5 mm (3/16")	Standard: Margin width of 5 mm (3/16")
		Maximum: Margin width of 3 mm (1/8")	Maximum: Margin width of 3 mm (1/8")
Paper Weight	Standard Tray	46 gsm (12-lb bond) to 210 gsm (56-lb bond) (plain paper)	46 gsm (12-lb bond) to 210 gsm (56-lb bond) (plain paper)
	Feed Tray	52 gsm (14-lb bond) to 104 gsm (28-lb bond) (plain paper)	
Paper Feed Method/ Paper Tray Capacity	Standard Tray	Height up to 110 mm (4 5/16")	Height up to 110 mm (4 5/16")
	Feed Tray	Height up to 50 mm (1 15/16") (× 3 trays)	
Output Tray Capacity		Height up to 60 mm (2 3/8")	Height up to 60 mm (2 3/8")
Page Description Language		RISORINC/CIII	RISORINC/CIII
Supported Protocols		TCP/IP, HTTP, HTTPS (SSL), DHCP, ftp, lpr, IPP, SNMP, Port 9100 (RAW port), IPv4, IPv6, IPsec	TCP/IP, HTTP, HTTPS (SSL), DHCP, ftp, lpr, IPP, SNMP, Port 9100 (RAW port), IPv4, IPv6, IPsec
Supported Operating Systems		Microsoft® Windows® XP (32-bit)	Microsoft® Windows® XP (32-bit)
		Microsoft® Windows Server® 2003 (32-bit/64-bit)	Microsoft® Windows Server® 2003 (32-bit/64-bit)
		Microsoft® Windows Server® 2003 R2 (32-bit/64-bit)	Microsoft® Windows Server® 2003 R2 (32-bit/64-bit)
		Microsoft® Windows Vista® (32-bit/64-bit)	Microsoft® Windows Vista® (32-bit/64-bit)
		Microsoft® Windows Server® 2008 (32-bit/64-bit)	Microsoft® Windows Server® 2008 (32-bit/64-bit)
		Microsoft® Windows Server® 2008 R2 (64-bit)	Microsoft® Windows Server® 2008 R2 (64-bit)
		Microsoft® Windows® 7 (32/64-bit)	Microsoft® Windows® 7 (32/64-bit)
		Microsoft® Windows® 8 (32/64-bit)[*8]	Microsoft® Windows® 8 (32/64-bit)[*8]
		Microsoft® Windows Server® 2012 (64-bit)[*8]	Microsoft® Windows Server® 2012 (64-bit)[*8]
Network Interface		Ethernet 1000BASE-T, 100BASE-TX, 10BASE-T	Ethernet 1000BASE-T, 100BASE-TX, 10BASE-T
Memory Capacity		1 GB	1 GB
Hard Disk[*4]	Capacity	320 GB	320 GB
	Available Space	280 GB	280 GB
Operating System		Linux	Linux
Power Source		AC 100-240 V, 10-5 A, 50-60 Hz	AC 100-240 V, 10-5 A, 50-60 Hz
Power Consumption		Maximum: 1,000 W	Maximum: 1,000 W
		Ready[*5]: 150 W or less	Ready[*5]: 150 W or less
		Sleep[*7]: 5 W or less	Sleep[*7]: 5 W or less
		Stand-by: 0.5 W or less	Stand-by: 0.5 W or less
Operating Noise		Max. 66 dB (when printing without optional equipment connected)	Max. 66 dB (when printing without optional equipment connected)
Operating Environment	Temperature	15ºC to 30ºC (59ºF to 86ºF)	15ºC to 30ºC (59ºF to 86ºF)
	Humidity	40% to 70% RH (non-condensing)	40% to 70% RH (non-condensing)
Dimensions (W × D × H)	In use	1,220 mm × 705 mm × 1,030 mm (48 1/32" × 27 3/4" × 40 9/16")	1,220 mm × 705 mm × 1,030 mm (48 1/32" × 27 3/4" × 40 9/16")
	Cover and feed trays closed	1,155 mm × 705 mm × 1,010 mm (45 15/32" × 27 3/4" × 39 3/4")	1,155 mm × 705 mm × 1,010 mm (45 15/32" × 27 3/4" × 39 3/4")
Required Space (W × D × H)	Cover and feed trays opened	1,220 mm × 1,240 mm × 1,030 mm (48 1/32" × 48 13/16" × 40 9/16")	1,220 mm × 1,240 mm × 1,030 mm (48 1/32" × 48 13/16" × 40 9/16")
Weight		Approx. 171 kg (376 lb)	Approx. 171 kg (376 lb)

Specifications are subject to change without notice.

*1 Within 10 minutes after the last print job. ***2** When using plain paper and recycled paper (85 gsm (23-lb bond)), and density setting 3 (Standard) Chart used: Print measurement pattern [Color measurement sample 2 (JEITA standard pattern J6)].

*3 The margin when printing envelopes is 10 mm (3/8"). The guaranteed area when printing images is the area enclosed within 3 mm (1/8") of the edges of the paper.

*4 One gigabyte (GB) is calculated as one billion bytes. ***5** Without printing and temperature adjustment operation.

*6 The continuous print speed varies depending on the type of optional output equipment connected. Multifunction finisher: Max. 120 sheets/minute (A4 long-edge feed simplex) Face down offset stapler: ComColor 9150: Max. 150 sheets/minute (A4 long-edge feed simplex), ComColor 7150: Max. 120 sheets/minute (A4 long-edge feed simplex), ComColor 3150: Max. 90 sheets/minute (A4 short-edge feed simplex).

*7 When setting [Power consumption (in sleep)] to [Low]. ***8** Will soon be compatible, however will remain incompatible with Microsoft® Windows® RT.

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