High-speed inkjet printer
A3 / Ledger
120 ppm
Multiple Paper Trays

Printers for Endless Possibilities

ComColor black
FW1230

Compact and feature-rich to improve efficiency
Rethink inkjet.

Experience the difference with this ultra-fast compact printer that really delivers.

ComColor blac
The power of inkjet. 
Ultimate speed and efficiency.

Inkjet printers require no heat when printing unlike laser printers. ComColor black FW1230 boasts ultra-fast print speed combined with a fast first print time to streamline printing, helping make busy work environments more efficient. Its ultimately low power consumption prevents paper from curling to reduce paper jams. And because output requires no cooling, pages can be sent immediately after printing to any of your optional finishers, vastly reducing production times.

Advancements all around

High productivity for any workplace.

With print speeds at 120 ppm, duplex scanning and a rich feature set, ComColor black FW1230 brings a new level of productivity to any workplace. You’ll also appreciate its modest footprint — the ideal choice where space is at a premium. Affordable on-demand printing ensures smooth operation to increase efficiency.

Superb efficiency for high volume printing.

ComColor black FW1230 is the right choice for low-cost, high-speed printing. This cost-efficient, ultra-fast black and white printer can be used with a variety of optional post-printing accessories for a reliable in-house print solution. It also goes easy on the environment thanks to the energy-saving design.

Excellent usability for every work environment.

The easy to use and intuitive user interface of ComColor black FW1230 makes anyone a master of efficiency. Management and maintenance tasks are also simplified, ensuring speedy workflows and reduced downtime.
High productivity for any workplace.

Ultra high-speed printing at 120 ppm

The amazingly fast print speed of 120 ppm in black and white allows ComColor black FW1230 to significantly quicken high-volume print jobs.

Print Time for 1,000 A4-size Sheets (A4/letter-size, long-edge feed simplex)

<table>
<thead>
<tr>
<th>ComColor black FW123O</th>
<th>Approx. 8 minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical office laser printer</td>
<td>25 minutes*</td>
</tr>
</tbody>
</table>

* At 40 ppm

Duplex printing shares this efficiency, reaching up to 120 ppm. Thanks to high-precision paper-feed control, ComColor black FW1230 prints at the same speed for both simplex and duplex documents to boost productivity. The responsive first print time of only 5 seconds means less waiting for both short print runs and high-volume jobs.

The optional one-pass duplex scanner drastically enhances processing speed for scanning. You can load up to 200 sheets for quick scanning and copying of large documents.

Compact design to fit any workplace

The compact print head and tray-free design make for a small footprint, allowing installation of ComColor black FW1230 almost anywhere.

Comparison with previous ComColor model
Cubic measurement 8% smaller
Footprint 11% smaller
Note: Approximate measurements

Two paper-feed trays are easily accessible and hold 500 sheets* each while the standard tray handles 1,000 sheets.* This equals a paper capacity of 2,000 sheets* in a slim body.

* When using plain paper or recycled paper (85 gsm (23-lb bond))

Reliability

The RISO inkjet advantage
Your assurance of quality and reliability

Instant-drying ink complements the high-speed, duplex printing capability. This specially developed, oil-based ink is also fade-resistant and water-resistant, and minimizes paper curling. Stable paper feeding ensures the reliable performance necessary for high-speed printing. Paper-feed speed is intelligently controlled according to how much ink is emitted from the print head. Also, multiple sensors help ensure high levels of reliability.

Durability

Tough body for reliable operation

High-speed, high-volume printing requires a durable body. ComColor black FW1230 is tough enough to print millions of sheets.

Dimensions

[Diagram showing dimensions of ComColor black FW1230]
Superb efficiency for high volume printing.

Low-cost black and white printing

ComColor Standard — RISO’s original color profile — accurately controls the amount of ink ejected from the print head depending on document type and media. This maintains image quality and optimizes ink usage, ultimately lowering operating costs. ComColor black FW1230 can handle a variety of tasks, including copying, printing and post-processing. This improves productivity while keeping costs down.

On-demand printing

White paper solution decreases waste, as it allows printing on-demand as and when required. ComColor black FW1230 also supports variable-data printing, eliminating the need for pre-printed stock. You can also add sequential numbers and barcodes. The fast print speed lets you make last-minute changes and print high-volume jobs within tight schedules. Furthermore, less reliance on outsourcing shortens turnaround time and gives you more control over document production.

Intelligent design for flexibility and efficiency

A simple paper-feed mechanism with no heating function supports a wide range of media, from plain paper and envelopes to cards. Paper is less likely to curl as no heat is applied during printing, thereby minimizing paper jams. This feature also ensures smooth pre- and post-processing. Production times for long print runs can be reduced by inserting slip sheets to facilitate sorting, adding covers and performing program printing.

RISO’s Barcode Area Definition application automatically detects barcodes. Print density for barcode areas can be easily and quickly adjusted for optimal readability.

The energy-efficient printing process offers smooth, economical operation. Unlike toner-based printers, ComColor black FW1230 employs an imaging process that eliminates ozone and toner emissions.

More energy-saving functions

Power schedule mode

This function allows you to automatically turn the power on and off at a specified time. Up to 10 sets of combinations of start or end times and days of the week can be registered. Never worry about forgetting to turn the printer off after working hours or over the weekend.

Sleep mode

Set when the printer enters sleep mode after the last print job to further decrease power consumption. This mode keeps power consumption to a miniscule 4W, further enhancing savings on electricity bills.

ECO-PROVEN PERFORMANCE WORLDWIDE

ComColor’s acquisition of and compliance with various environmental labels and directives from around the world are your assurance of the green performance. The following labels and directives apply to the ComColor FW series.

- **BLUE ANGEL**
  The Blue Angel is the German government’s label for environmentally friendly products and services. As the first environmental label worldwide, it has stood for independence and credibility for over 35 years as an eco-label you can trust. (ComColor black FW1230 has acquired the Blue Angel in Germany.)

- **ENERGY STAR® Program**
  An international program that promotes energy saving in office machines. The program sets standards in terms of the power consumption of office machines in each of the operation, sleep and OFF modes*.

- **EPEAT**
  The definitive global rating system in the United States for greener electronics. EPEAT (Electronic Product Environmental Assessment Tool) combines comprehensive criteria with ongoing independent verification of manufacturer claims, across the broadest range of products and sectors. (ComColor black FW1230 is EPEAT Silver rating registered in the United States.)

* Varies according to region. 

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Excellent usability for every work environment.

Designed for simple operation
An easy-to-view touch panel with instantly recognizable color icons makes printer operation simple for anyone. The tilt panel ensures excellent viewing at any angle up to 90 degrees, expanding installation flexibility. Scan preview windows show scanned images before saving data, ensuring less scan failures. For added convenience when printing and copying, frequently used functions can be saved as Favorites.

Expanded usability
The optional PS kit supports a variety of operating systems, and PDF files can be printed directly from USB flash drives, while RISO Print-S application allows printing from smart devices. ComColor black FW1230 offers reliable support for any work environment.

ComColor functions and output modes

Useful scanner functions
The optional Scanner HS7000 can save scanned data over the network to a PC, as an attachment to e-mail, or onto a hard disk of a networked RISO machine. Multi-page documents can be saved in PDF format as either separate files or combined into one file. Documents can be saved as PDF, TIFF, JPEG or PDF/A (suitable for long-term storage) formats.

Easy management for administrators
Up to 1,000 users can be registered. Connecting to an internal directory with LDAP authentication ensures quick configuration for a large number of users. The optional IC Card Authentication Kit enables user management using an IC card. Other maintenance tasks can be performed simply and speedily.
Optional accessories to customize your workflow

Face Down Finisher F10
Compact finisher exclusively for offset stacking and stapling finished prints.

- **Applicable Paper Size**
  - Without offset
    - Maximum: 340 mm × 550 mm (13 3/8" × 21 5/8")
    - Minimum: 50 mm × 148 mm (2 3/16" × 5 7/16")
  - Offset output
    - Regular sized paper width: 182 mm × 257 mm - 297 mm × 431.8 mm
      (7 1/4" × 10 1/8" - 11 15/16" × 17")
    - Irregular sized paper width: 131 mm × 148 mm - 305 mm × 550 mm
      (5 1/4" × 5 7/16" - 12" × 21 5/8")

- **Paper Weight**
  - 46 gsm to 210 gsm (12-lb bond to 56-lb bond)

- **Tray Capacity**
  - Height up to 108 mm (4 1/4")

- **Print Speed** (long-edge feed, simplex)
  - Without offset: 125 ppm
  - Offset output: 105 ppm

- **Staple Position**
  - 1 at center (parallel stapling)
  - 1 at rear side (angle stapling)
  - 1 at front side (angle stapling)

- **Paper Weight for Staple**
  - 25 sheets
  - 50 sheets
  - Maximum Number of Sheets for Staples
    - 10 sheets: A4, B5 (US), Letter, 25 sheets: A4, B5 (US), Ledger, Legal, Foolscap

- **Power Consumption**
  - Max. 100 W

- **Consumables**
  - ComColor FW Ink Cartridge
    - Color: Black
    - Replenishing ink is clean and easy with slim ink cartridges and the ComColor’s clever design.

- **Dimensions**
  - ComColor black FWY23.0 + Scanner HS7000 + Face Down Finisher F10
    - Front: 1,395 mm (51 1/32")
    - Side: 1,195 mm (47 1/2")
  - ComColor Mach FWY23.0 + Scanner HS7000 + Multifunction Finisher FG10 + Folder Unit FG10
    - Front: 1,340 mm (52 3/4")
    - Side: 980 mm (38 7/8")

Scanner HS7000
The auto-feeder enables copying and scanning of duplex originals of up to 200 sheets at a time.

- **Copy Functions**
  - Writing Resolution: Standard: 600 dpi × 600 dpi
  - Copy Paper Size: Maximum: 303 mm × 432 mm (11 15/16" × 17")
  - First Copy Time: Monochrome: 7 sec or less
  - Copying Speed: 70 ppm (Simplex/Duplex)**

- **Scan Functions**
  - Scanning Speed:
    - Monochrome: 100 ppm
    - Color: 40 ppm (Gray scale)
  - Data-saving Format:
    - TIFF, PDF

- **Power Consumption**
  - Max. 100 W

- **Consumables**
  - 80 gsm (21-lb bond) or less
  - When copying A4/Letter long-edge feed, using Color Priority Mode

- **Network Interface**
  - Ethernet 1000BASE-T/100BASE-TX/10BASE-T

Folder Unit FG10
Folder Unit FG10 supports A4 tri-fold**. Mixed-size documents using A3-size and A4-size bundles by Z-folding the A3-size sheets**.

- **Copy Functions**
  - Copy Paper Size: Maximum: 340 mm × 550 mm (13 3/8" × 21 5/8")
  - Maximum: 303 mm × 432 mm (11 15/16" × 17")
  - Tray Capacity
    - 1,000 sheets

- **Consumables**
  - RISO KAGAKU standard original, A4/Letter long-edge feed, 300 dpi, JPEG or PDF, when stored to main unit hard drive, using Auto Document Feeder

IC Card Authentication Kit II
The optional IC Card Authentication Kit enables user management using an IC card.

- **Copy Functions**
  - Copy Paper Size: Maximum: 340 mm × 550 mm (13 3/8" × 21 5/8")
  - Maximum: 303 mm × 432 mm (11 15/16" × 17")
  - Tray Capacity
    - 1,000 sheets
  - When using plain paper or recycled paper (85 gsm (23-lb bond))
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### Specifications

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Print Type</strong></td>
<td>Line-type inkjet system</td>
</tr>
<tr>
<td><strong>Ink Type</strong></td>
<td>Oil-based pigment ink (Black)</td>
</tr>
<tr>
<td><strong>Print Resolution</strong></td>
<td>Standard: 600 dpi (main scanning direction) × 600 dpi (sub-scanning direction)</td>
</tr>
<tr>
<td><strong>Number of Gray Levels</strong></td>
<td>For K color (3 gray levels)</td>
</tr>
<tr>
<td><strong>Data Processing Resolution</strong></td>
<td>Standard: 600 dpi × 600 dpi</td>
</tr>
<tr>
<td><strong>Warm-up Time</strong></td>
<td>2 min. 30 sec. or less (at room temperature of 23°C (73.4°F))</td>
</tr>
<tr>
<td><strong>First Print Time</strong></td>
<td>5 sec. or less (A4 long-edge feed)</td>
</tr>
<tr>
<td><strong>First Copy Time</strong></td>
<td>7 sec. or less (A4 long-edge feed)</td>
</tr>
</tbody>
</table>

**Continuous Print Speed**

- **A4 long-edge feed**: Simplex: 120 ppm Duplex: 60 sheets/minute (120 ppm)
- **Letter long-edge feed**: Simplex: 120 ppm Duplex: 60 sheets/minute (120 ppm)
- **A4 short-edge feed**: Simplex: 90 ppm Duplex: 45 sheets/minute (90 ppm)
- **Letter short-edge feed**: Simplex: 90 ppm Duplex: 45 sheets/minute (90 ppm)
- **B4 (JIS) short-edge feed**: Simplex: 76 ppm Duplex: 34 sheets/minute (68 ppm)
- **Legal short-edge feed**: Simplex: 76 ppm Duplex: 34 sheets/minute (68 ppm)
- **A3 short-edge feed**: Simplex: 66 ppm Duplex: 32 sheets/minute (64 ppm)
- **Ledger short-edge feed**: Simplex: 65 ppm Duplex: 32 sheets/minute (64 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 27/32")

**Feed Tray**:

- Maximum: 297 mm × 432 mm (11 11/16" × 17")
- Minimum: 182 mm × 182 mm (7 3/16" × 7 3/16")

**Printable Area**

- Maximum: 310 mm × 544 mm (12 3/16" × 21 13/32")
- Minimum: 90 mm × 148 mm (3 9/16" × 5 27/32")

**Guaranteed Print Area**

- Standard: Margin width of 5 mm (7/32")
- Maximum: Margin width of 3 mm (1/8")

**Paper Weight**

- **Standard Tray**: Simplex: 46 gsm to 210 gsm (12-lb bond to 56-lb bond)
- **Duplex**: 46 gsm to 210 gsm (12-lb bond to 56-lb bond) for A4 and Letter
  - 46 gsm to 104 gsm (12-lb bond to 28-lb bond) for Ledger, A3, Legal, and B4

**Paper Tray Capacity**

- **Standard Tray**: Height up to 110 mm (4 5/16")
- **Feed Tray**: Height up to 56 mm (2 3/16") (× 2 trays)

**Output Tray Capacity**

- Height up to 56 mm (2 3/16")

**PDL (Page Description Language)**

- RISO/RINC/C IV

**Supported Protocols**

- TCP/IP
- HTTP
- HTTPS
- DHCP
- fpt
- lpr
- IPP
- SNMP
- Port 9100 (RAW port)
- IPv4
- IPv6
- IPsec

**Supported Operating Systems**

- **Standard**
  - Linux (compatible with PPD only)

- **Optional**
  - Mac®: Mac OS v10.8 (Mountain Lion), v10.9 (Mavericks), v10.10 (Yosemite), v10.11 (El Capitan), v10.12 (Sierra)
  - Linux (compatible with PPD only)

**Network Interface**

- Ethernet 1000BASE-T, 100BASE-TX, 10BASE-T

**Memory Capacity**

- 4 GB

**Hard Disk**

- Capacity: 500 GB
- Available Space: Approx. 430 GB

**Operating System**

- Linux

**Power Source**

- AC 100-240 V, 10.0-5.0 A, 50-60 Hz

**Power Consumption**

- Max. 1,000W
- Ready*: 150 W or less
- Sleep*: 4 W or less
- Stand-by: 0.5 W or less

**Operating Noise**

- Max. 65 dB (A) A4 long-edge feed (Simplex) at the maximum print speed

**Operating Environment**

- Temperature: 15°C to 30°C (59°F to 86°F)
- Humidity: 40% to 70% RH (non-condensing)

**Dimensions (W × D × H)**

- In use: 1,030 mm × 725 mm × 1,115 mm (40 1/2" × 28 9/16" × 43 29/32")
- With cover and tray closed: 775 mm × 705 mm × 970 mm (30 17/32" × 27 25/32" × 38 7/32")
- Minimum: 90 mm × 148 mm (3 9/16" × 5 27/32")
- Maximum: 340 mm × 550 mm (13 3/8" × 21 5/8")

**Weight**

- Approx. 132 kg (292 lb)

**Safety Information**

- IEC60950-1 compliant, Indoor, pollution degree 2*
- With cover and tray closed: 775 mm × 705 mm × 970 mm (30 17/32" × 27 25/32" × 38 7/32")
- For altitudes of 2,000 m or lower

**Specifications**

- Specifications are subject to change without notice.

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1. Within 10 minutes after the last print job.  
2. When using plain paper or recycled paper (85 gsm (23-lb bond)), and density setting (Standard) Chart used: Print measurement pattern 2 (JEITA standard pattern J6).  
3. The continuous print speed varies depending on the type of optional output equipment connected.  
4. The margin when printing envelopes is 10 mm (3/8") of the edges of the paper.  
5. Optional PS kit is required.  
6. One gigabyte (GB) is calculated as 1 billion bytes.  
7. Without printing and temperature adjustment operation  
8. When setting [Power Consumption (in sleep)] to [Low].  
9. The pollution degree of the usage environment due to dirt and dust in the air. Degree "2" corresponds to a general indoor environment.  
10. With the front cover open and the operation panel in the upright position.  
11. When using duplex print: 340 mm × 460 mm (13 3/8" × 18 3/32")

For more details please contact:

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