

MZ970 Specifications

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Master-making/Printing methods	High-speed digital master-making/Fully automatic stencil printing
Resolution	Scanning resolution: 600dpi x 600dpi
	Print image resolution: 600dpi x 600dpi
Original type	Book (10kg or less), sheet
Original size	When using the glass platen: 50mm x 90mm - 297mm x 432mm
	When using the AF-VI (option): 100mm x 148mm - 297mm x 432mm
	When using the DX-I (option): 105mm x 128mm – 297mm x 432mm
Original paper weight	When using the glass platen: 10kg or less
	When using the AF-VI (option): 50g/m ² – 128g/m ²
	When using the DX-I (option): Single side feeding $40g/m^2 - 128g/m^2$, Double side feeding $52g/m^2 - 105g/m^2$
Scanning area (max.)	297 mm x 432 mm
Print paper size (max.)	When using the standard feed tray: 297mm x 432mm
	When using the wide stacking tray: 340mm x 555mm
Print paper size (min.)	Dual color print: 182mm x 257mm (B5)
	Single color print with drum I: 100mm x 148mm
	Single color print with drum 2: 182mm x 257mm (BS)
	150ppm single print with drum 2: 257mm x 364mm (B4)
Print paper weight	46g/m ² – 210g/m ²
Paper supply capacity	1000 sheets (64g/m ²)
Printing area (max.)	291mm x 413mm
Master-making time	Dual color print: Approx. 57 seconds
(for A4/Portrait/100% reproduction ratio)	Single color print with drum 1: Approx. 24 seconds
	Single color print with drum 2: Approx. 34 seconds
Image processing mode	Line, Photo (Standard, Portrait, Group), Duo, Pencil
Print reproduction ratio	Preset enlargements: 163%, 141%, 122%, 116%
	Preset reductions: 87%, 82%, 71%, 61%
	Zoom: 50 – 200%
	Free (individual adjustment of length or width): 50 - 200%
	Margin+: 90 – 99%
Print speed	60 – 150 ppm
	Five steps variable from the control panel (60, 80, 100, 110, 120 ppm)
	150ppm: Selectable from the touch panel
Print position adjustment	Vertical: ±15mm Horizontal: ±10mm
Ink supply	Fully automatic (1000ml per cartridge)
Master supply/Disposal	Fully automatic (approx. 220 sheets per roll)
Master disposal capacity	Approx. 80 sheets per box
Energy saving modes	Auto sleep, Auto Power-OFF, Power-OFF schedule
User interface	LCD Touch Panel with Progress Arrow indicators
Features	Easy 2 Color, RISO Editor, Auto process, Dot screening (4 types),
	Scanning contrast (Auto + 5 selectable steps), Top and Side margin adj., Book shadow edit,
	Photo contrast adj., Tone curve adj., Ink saving mode, Multi-up (2/4/8/16/ticket),
	Auto 90 degrees rotation, Renew Page, Preview, Print density adj. (5 steps), Double feed check,
	Interval print, Program printing, Job memory, Reserve, Auto/manual Idling, Confidential,
	Combination print, Custom paper entry, Admin. Setting, Direct access and Selection Entry,
	Document storage*1, Overlay*1, Stamp*1, Link print*2, RISO i Quality System
Input port	USB (USB2.0), Ethernet*3 (100BASE-TX, 10BASE-T)
Network protocol	TCP/IP, NetBEUI, EtherTalk*3
System memory	128MB
Sound level	Standard: Less than 68dB
(100ppm at operating position)	With sound reduction kit: Less than 66dB
Power source	100V-120V AC, 50/60Hz, <7.3A> 220V-240V AC, 50/60Hz, <3.0A>
Power consumption	100V-120V Max.: 600W, During stand-by: 60W, During sleep mode: 4W
	220V-240V Max.: 545W, During stand-by: 55W, During sleep mode: 4W
Dimensions (WxDxH) without stand	When in use: 1605mm(W) x 725mm(D) x 730mm(H)
	When in storage: 1010mm(W) x 725mm(D) x 730mm(H)
Weight without stand	Approx. 168kg
Treigne menoue scana	Approx. room

Specifications are subject to change without notice. Details may vary depending on the region.

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RISO i Quality System and RISO i Quality mark are trademarks of Riso Kagaku Corporation.

http://www.riso.com/



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Printed in Japan. RAD No.9716262



^{*1:} Optional Document Storage are sunject to triangle without notice. Details may vary depending on the legion of the legion of

Single-pass one or two color printing

High quality one-color printing

For quick and easy production of documents that don't need the extra impact of a second color, you can run the MZ970 as a single-color printer. 600dpi resolution assures you of the finest quality results.



with stunning 600dpi resolution

Superior two-color printing

Adding a second color gives any document added power and immediacy. The MZ970 gives you all that impact with just a single pass, so you enjoy ease and convenience as you give your documents a professional look.



Fast, flexible one or two color printing with high-quality 600dpi resolution

The MZ970 combines easy high-speed two-color printing with stunning 600dpi resolution to give you superb results no matter what the document. With its single-pass, two-color printing, the MZ970 brings you the ease of use that makes RISO the world's favorite printers. And full 600dpi resolution assures that even the tiniest fonts and finest gradations are faithfully reproduced. What's more, advanced RISO technology makes color separation, master-making and printing a simple pushbutton operation, while the huge selection of RISO inks gives you an enormous color palette to spice up all your documents.



1



High speed, high quality, easy operation — in one color or two

Easy, efficient one or two color printing

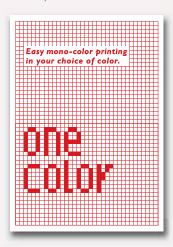
The choice is yours: print in one color or two, and all at a single pass. Now, adding the impact of a second color is virtually as quick



and easy as printing in a single color. All this power and convenience is at your fingertips in a compact, easy-operation machine - the RISO MZ970.

One-color printing

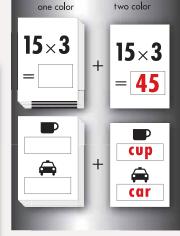
For simple documents that do not require the added eyecatching power of a second color, the MZ970 offers fast, easy mono-color printing in your choice of color.





Two-color printing

The MZ970 makes printing in two colors just about as quick and simple as printing in a single color. Advanced RISO technology eliminates the need to prepare separate originals for each color, so adding the extra impact of a second color requires little more than the push of a button.

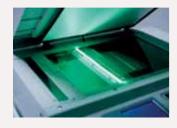


Combination print

The MZ970 even allows you to split your print run, with one part in a single color only and the other part in two colors. For example, it's an easy way to prepare a set of test papers in black and an answer sheet with the questions in black and the answers in red.

600dpi scanning

The scanner gives you full 600 x 600dpi resolution, assuring that even the finest details are faithfully picked up and reproduced in the HD (High Density) masters that give even more compelling



600dbi printing

Full 600 x 600dpi perforation density on the HD master and RISO's unique image management technology assure beautiful output with smooth lines, finer photo gradations and clearly legible type, even with tiny point sizes. What's more, speciallydeveloped HD Black Ink works with the HD master for a deeper, richer black and an even more professional



RISO - the name for speed

RISO printers are famous worldwide for their speed and quality, and the MZ970 proudly upholds this reputation.



Every step of the printing process from scanning through master-making to final output - is engineered to get the job done fast without bother or inconvenience.

Master-making

lust 24 seconds* is all that is necessary to make a single-color master, while a 2-color master takes only 57 seconds*. And this means that you're ready to start printing in less than a minute.

*A4 portrait master without enlargement

One-pass, two-color printing

The MZ970 features two print drums - one for each color - so you can enjoy two-color printing with just a single pass, raising speed and enhancing office efficiency. What's more, since the paper only makes a single pass over each print drum you're assured of accurate registration. Individual colors line up just the way you want to achieve the results you planned.





High-speed performance

With a maximum print speed of 150ppm, it takes less than seven minutes to print 1,000 pages, making short work of even the longest jobs.



Advanced functions for easier two-color printing

Easier master-making with "easy 2-color"

The MZ970's "easy 2-color" process not only makes it quick and easy to create two-color masters, it also offers you a choice of how to do it so you can select the method you find easiest or the one that's most suitable for your print job.

Note: Automatic "easy 2-color" separation depends to a certain extent on the type of original used. To assure the best results, please contact your dealer for details on useable colors for originals and pens.

Red and black original

A red and black original gives the simplest master-making process. Just set your original and scan the MZ970 automatically does the color separation for you.

Handwritten separation

With a one-color original, you can write the data you want printed in the second color by hand. Then you simply scan and the colors are separated automatically.

Area separation

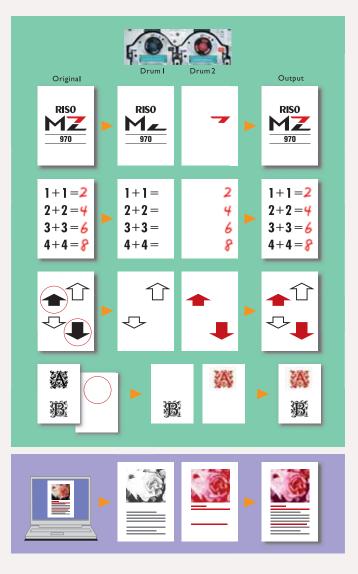
On a one-color original you just circle the areas for printing in the second color. Then scan your marked original and the color separation process happens automatically.

Separation sheet

With area separation, you have to mark your original. If you don't wish to write on your original, simply circle the area for printing in the second color on a separate sheet of paper and scan twice for color separation.

Data from a PC

For users who create originals on a PC, the included printer driver software automatically handles color separation when the data is sent to the printer. Dual-tone color printing is also available.



Total control for total operating ease

Logical panel layout

Easy, intuitive operation is assured thanks to a control panel divided into two areas. On the right side are dedicated buttons controlling all basic operations. On the left is a touchpanel giving easy access to a wide range of more advanced functions.



Easy-to-read screen for handy touchpanel operation

Enjoy clear, at-a-glance viewing of functions—and even a preview of how your printed document will look—with the large touchpanel screen. Thanks to logical grouping of functions, you simply step through the menus until you reach your desired operation. What's more, you can customize the



panel layout and even place your most-frequently used functions on the top screen.

Dedicated controls for each print drum



The two print drums each have their own dedicated controls, allowing you to individually set

print density and shift the entire print area for each color separately. There's also a dedicated speed control to set print speed.

Progress arrows

These arrows keep you in the picture about progress in master-making and printing, so you always know where you are in the process.



Auto 90° rotation

Similar to the function found on copiers, this rotates the print area by 90° to match paper orientation. So you're assured of successful printing no matter whether paper is loaded in portrait or landscape orientation. What's more, the function operates when reducing or enlarging (standard paper sizes only) – for example from A3 to A4 – to best fit the print area to your chosen paper size.



Lightweight, front loading print drums



the front loading design and lightweighting of the print drums.

Easy ink setting



Front panel
access makes
changing the ink
bottle quick and
easy, too. You
simply insert the

ink bottle and twist it into place.

Slide-out master unit



The master unit is side-mounted and slides out like a drawer for simple replacement of

the master roll: just remove the old roll and drop a fresh one into place.

5

Total control for total operating ease

Advanced functions for more creativity

Logical panel layout

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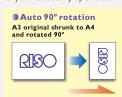
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Lightweight, front loading print drums



Swapping a print drum for one of a different color is easier than ever thanks to the front loading

design and lightweighting of the print drums.

Easy ink setting



Front panel access makes changing the ink bottle quick and easy, too. You simply insert the

ink bottle and twist it into place.

Slide-out master unit



The master unit is side-mounted and slides out like a drawer for simple replacement of

the master roll: just remove the old roll and drop a fresh one into place.

RISO Editor

The RISO Editor lets you directly specify on the touchpanel which areas should be in which color, or even move photos, illustrations or blocks of text to give you precise placement and enhance the appearance of your finished document.



Preview mode

Preview mode shows you exactly how your finished document will look when printed, offering you a final check to ensure it exactly matches your vision.



Pinpoint control for the results you want

The MZ970 is packed with cutting-edge RISO technology to bring you ultimate control of the way your finished documents will look and deliver exactly the results you want. From the RISO Editor for precise editing and color separation to the selection of photo modes, the MZ970 is designed and built to give you complete satisfaction.

Line/photo/duo/ pencil modes

Select from line, photo, duo or pencil modes. Line mode is best for text-only documents, photo mode is better for photos or illustrations, duo mode gives the best results for documents that are a mix of text and photos, while pencil mode is optimized for illustrations that are drawn in pencil.

A choice of three photo modes



Standard mode is the basic setting designed to give excellent results with the majority of photographs.

Portrait mode



Portrait mode is optimized to give clear gradations of skin tones, resulting in superbly lifelike output.

Group photo mode



This mode uses a special algorithm to clearly show faces in group photos, so subjects can easily pick themselves out.

Pencil mode



Often, illustrations drawn in pencil fail to scan cleanly, Pencil mode is optimized to clearly scan and print such illustrations to assure you of superb results.

Document storage

Document storage lets you scan and store items such as letterheads and forms that you use frequently. You can recall the data at the touch of a button, saving you the time needed to scan the document every time you use it.

Overlay

This function is for one-color printing only, and lets you print letterheads on a document. Just recall the data and it is automatically overlaid on the master along with the scanned document.



Stamp

With Stamp for two-color printing, you can store your most frequently-used stored items on a dedicated page of the touchscreen for immediate access and printing at a single touch.

Note: Optional Document Storage Card
DM-128CF is required for Document storage, Overlay and Stamp functions.



Extra capabilities for greater convenience

RISO **2970**

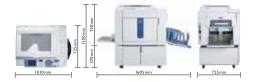
MZ970 Specifications

Original type

Original size

Original paper weight

Master-making/Printing methods



Smart functions enhance ease of use

The MZ970 offers a further host of features to give you even more convenience and operating ease. These include remote monitoring of networked printers, a variety of energy saving modes, and the unique RISO i Quality System for assured quality and convenience.

PC connectivity

The built-in USB 2.0 connector gives single-cable connectivity to a PC allowing you to create and print documents without the need for the intermediate scanning step. Addition of the optional network card gives everyone in your office access to the high-speed MZ970's capabilities. What's more, by adding the optional PS7R-5000 controller you get full compatibility with Adobe PostScript 3. the worldwide standard in imaging.

Remote monitoring

You can conveniently monitor a networked printer's condition from your PC. Data displayed includes loaded ink colors, remaining master supply, paper loaded, and much more.

Note: For networking, the optional RISORINC NET network card is required.

Energy saving modes

The MZ970 offers a variety of energy saving modes including a sleep mode, auto power off after a user-specified time with no activity, and auto power off at a set time for example 6:00pm.

Environment-friendly design

The MZ970 is engineered to be easy on the environment. ENERGY STAR compatibility assures energy efficiency. Compliance with the EU's Restriction of Hazardous Substances (RoHS) Directive restricts the use of hazardous materials, while meeting the standards of the EU Waste Electrical and Electronic Equipment (WEEE) Directive assures that your printer is recycled at the end of its useful life.

RISO i Quality System™

The RISO i Quality System offers a large number of quality and convenience benefits. Among them are:

- Automatic assurance of optimum print quality.
- Prevention of operator error.
- Warning of shortages in remaining ink/master volume.
- Minimized paper waste.

The RISO i Quality System gives easy monitoring of the status of consumables. Simply press the "i Info" button on the Basic Screen for a graphic display of remaining consumables.





The RISO i Quality mark indicates a RISO produc compatible with the RISO i Quality System.

Choose from this wide range of options to enhance your MZ970



A wide variety of colors is available. Drums can be stored in their own case.



Job separator IV:NII Allows the machine to print and sort into groups separated



Automatic feed of up to 50 sheets of originals.



RISO stand D type (II) Provides storage for up to two obtional brint drums.



DX-I Automatic scanning of both sides of originals and automatic feeding. 50 sheets capacity.



RISO stand N type (II) Sturdy open-front stand also offers convenient storage of consumables.



Helps manage costs by showing number of copies printed and masters used in a given time



PS7R-5000 Provides compatibility with Adobe PostScript 3.



Allows use of thicker stock such as cards and envelopes.

Network interface card RISORINC-NET

Gives the printer network connection. Comes bundled with RISO-MONITOR remote printer-monitoring software.

Document storage card DM-128CF

Allows storage of frequently used documents for instant recall.

Ink RISO INK Z TYPE HD BLACK RISO INK Z TYPE COLOR RISO INK 7 TYPE CUSTOM COLOR RISO logo is the registered trademark of Riso Kagaku Corporation. RISO I Quality System and RISO i Quality mark are trademarks of Riso Kagaku Corporation.

Input port

Power source

Network protocol System memory

Power consumption

Weight without stand

(100ppm at operating position)

Dimensions (WxDxH) without stand



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	When using the DX-I (option): Single side feeding $40g/m^2-128g/m^2$, Double side feeding $52g/m^2-105g/m^2$
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	Single color print with drum 2: Approx. 34 seconds
Image processing mode	Line, Photo (Standard, Portrait, Group), Duo, Pencil
Print reproduction ratio	Preset enlargements: 163%, 141%, 122%, 116%
	Preset reductions: 87%, 82%, 71%, 61%
	Zoom: 50 – 200%
	Free (individual adjustment of length or width): 50 - 200%
	Margin+: 90 – 99%
Print speed	60 – 150 ppm
	Five steps variable from the control panel (60, 80, 100, 110, 120 ppm)
	150ppm: Selectable from the touch panel
Print position adjustment	Vertical: ±15mm Horizontal: ±10mm
Ink supply	Fully automatic (1000ml per cartridge)
Master supply/Disposal	Fully automatic (approx. 220 sheets per roll)
Master disposal capacity	Approx. 80 sheets per box
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User interface	LCD Touch Panel with Progress Arrow indicators
Features	Easy 2 Color, RISO Editor, Auto process, Dot screening (4 types),
	Scanning contrast (Auto + 5 selectable steps), Top and Side margin adj., Book shadow edit,
	Photo contrast adj., Tone curve adj., Ink saving mode, Multi-up (2/4/8/16/ticket),

USB (USB2.0), Ethernet*3 (100BASE-TX, 10BASE-T)

When in use: 1605mm(W) x 725mm(D) x 730mm(H

When in storage: 1010mm(W) x 725mm(D) x 730mm(H)

100V-120V AC, 50/60Hz, <7.3A> 220V-240V AC, 50/60Hz, <3.0A>

100V-120V Max.: 600W, During stand-by: 60W, During sleep mode: 4W

220V-240V Max.: 545W, During stand-by: 55W, During sleep mode: 4W

TCP/IP, NetBEUI, EtherTalk*3

With sound reduction kit: Less than 66dR

Standard: Less than 68dB

Approx. 168kg

128 MB

High-speed digital master-making/Fully automatic stencil printing

When using the glass platen: 50mm x 90mm - 297mm x 432mm When using the AF-VI (option): 100mm x 148mm - 297mm x 432mm When using the DX-I (option): 105mm x 128mm - 297mm x 432mm

Scanning resolution: 600dpi x 600dpi

Book (10kg or less), sheet

Print image resolution: 600dpi x 600dpi

When using the glass platen: 10kg or less

Specifications are subject to change without notice. Details may vary depending on the region.

*I: Optional Document Storage Card DM-128CF is required for Document storage, Overlay and Stamp functions,

Auto 90 degrees rotation, Renew Page, Preview, Print density adj. (5 steps), Double feed check, Interval print, Program printing, Job memory, Reserve, Auto/manual Idling, Confidential, Combination print, Custom paper entry, Admin. Setting, Direct access and Selection Entry, Document storage*1, Overlay*1, Stamp*1, Link print*2, RISO i Quality System

*2: Optional Network Card RISORINC NET-D:G or NET-D:GII and a networked-laser-printer is required for

Link print function. Contact your dealer for details of compatible laser-printers.

*3: Optional Network Card RISORINC NET-D:G or NET-D:GII is required for network and Macintosh connection.

For more details please contact

