Konica Minolta supports the digital on-site business
of its customers by providing systems
with high connectivity and expandability.
Konica Minolta intends to continue working with its customers
to develop the future of the digital on-site business.

KONICA MINOLTA

For Digital On-Site Business

R2 SUPER SERIES

KONICA MINOLTA DIGITAL MINILAB SYSTEM

R2 SUPER 1000

R2 SUPER 700

R2 SUPER 1000 COMPACT

R2 SUPER 700 COMPACT

KONICA MINOLTA PHOTO IMAGING, INC.
No.26-2, Nishishinjuku 1-chome, Shinjuku-ku, Tokyo 163-0512, Japan
URL http://konicaminolta.com

Ver.3
2004.11 10,000 ★AD8

The essentials of imaging

Konica Minolta's answer for the age of the digital minilab.
Performance and features that set the standard.

R2 SUPER 1000
KONICA MINOLTA DIGITAL MINILAB SYSTEM

Enabling features standard for your digital on-site business

- World class 400 x 800 dpi high-resolution image quality.
- Highly reliable printer, capable of large format prints up to 10 x 15 inches.
- Minilab system with outstanding network compatibility, enabling the full range of digital services.
- Partnership with your shop after installation, to support your system environment.

Photo shows R2 SUPER 1000 equipped with optional double magazine.

Konica Minolta's answer for working space and working efficiency.
Compact system with 1.48 m² footprint,
identical to output module of separated system.

R2 SUPER 1000 COMPACT
KONICA MINOLTA DIGITAL MINILAB SYSTEM

New features of compact system

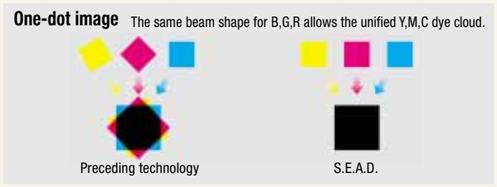
- World's most compact design (1.48 m² footprint) in 10-inch system
- All the performance and features of separated system on one integrated body.
- Allows efficient standing operation.
- Partnership with your shop after installation, to support your system environment

Super high quality image

The latest technology supports the world's highest class image quality prints with 400 x 800 dpi.

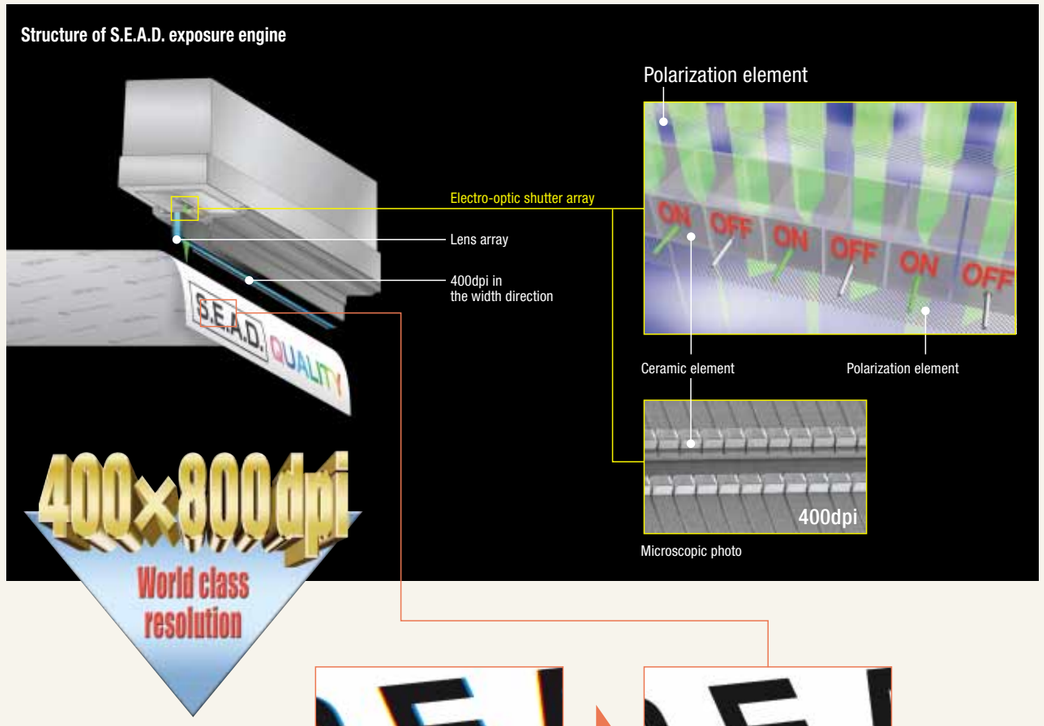
Thanks to our newly designed S. E. A. D. exposure engine, the new systems deliver world's highest class image quality with 400 x 800 dpi resolution.

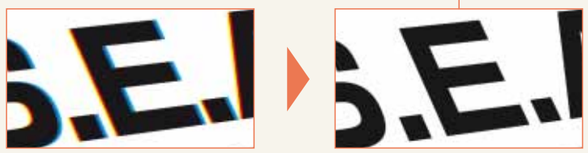
The S.E.A.D. (Solid state Electro-optic shutter Array Device) engine is a 10-inch width fixed scanning microshutter array exposure device, developed by Konica Minolta especially for ultra-high resolution minilabs. Through proprietary ultra-high-precision fabrication technology, specially constituted fine ceramics are arranged to deliver a resolution of 400 dpi in the width direction. At the same time, nanosecond-level electronic control enables a world class 800 dpi in the transport direction. The 3-color LEDs employed as the light source are low in power consumption and extremely stable. The exposure system employs Konica Minolta's advanced optical technology to ensure that color paper is exposed evenly across the full width of wide prints. Since RGB exposure is carried out by solid-state devices, pixel color divergence is extremely low (1/3 vs. preceding technology).



The absence of rotating parts characteristic of solid-state devices also gives S.E.A.D. engine high durability and resistance to vibration (200% higher, vs. preceding technology). It is an extremely reliable exposure engine, assuring stable print production over extended use.
In addition to featuring resolution which is more than sufficient for output of high-end digital camera and scanner images, the engine is extremely expressive, especially when used in the optimum combination with Konica Minolta Centuria for Digital paper to enable the full range of 1024 gradations in each of the RGB color scales.

While delivering rich D-max, the engine produces sharp, detailed, and stain-free image quality, with pure white and vivid blacks to lend intensity to the image. Subtle nuances and delicate tones are reproduced at the world's highest level of expressiveness.





Conventional print
Colors of R, G and B appear by blur at the edge of black letters in white background.

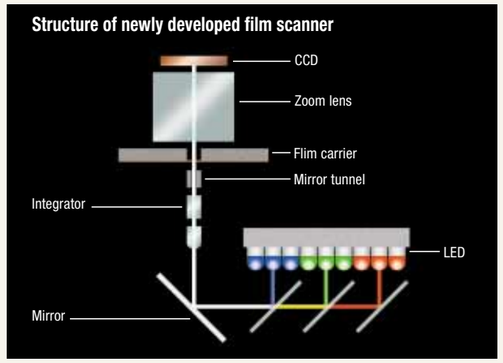
Print by S.E.A.D.
Black letters in white background appear sharply without any blur.

Faster printing and higher image quality from high-resolution film scanner

The film scanner features high-performance 3 line color CCDs rated at a maximum of 5400 pixels. Film images are input at a maximum resolution of 4.08 megapixels. The resolution of 5400 pixels is fully sufficient to read all of the information recorded on the film. The original image is completely captured in all of its true beauty and detail. In addition to printing at maximum size of the R2, the quality of scanned images is high enough to allow transfer via an external network for print at A1 poster size on an ink-jet printer. To achieve 5400 pixels of resolution, Konica Minolta's advanced optical technology was used to develop a special zoom lens system. Placing the highest emphasis on faithful reproduction of the film image, an original optical system was developed to preserve the full impact of the high resolution.
A rich range of gradations (65636 gradations) is achieved through 16-bit input of each of the RGB colors. Images are clear, smooth, and fully expressed even in delicate shadowed sections.

The 3-color LEDs in the light source are the result of new optical design technology, featuring high luminescence and long life. High precision scanning is assured by the latest optical path design technology and nanosecond precision in film transport control.

HRS
HI-RESOLUTION SCANNER



KONICA MINOLTA QA PAPAER CENTURIA For Digital

CENTURIA FOR DIGITAL

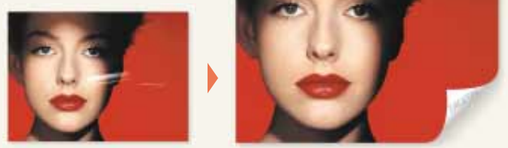
Performance optimized for digital minilabs, impressively pure whites, and beautiful reproduction of snapshots and artistic images.KONICA MINOLTA QA PAPER CENTURIA For Digital is a special paper designed to deliver excellent prints in rapidly expanding field of digital imaging.

Auto imaging enhance technology (Konica Minolta's A.I.E.)

Digital ICE (automatic dust and scratch removal)

Automatic detection and removal of dust and scratches on film. Together with Konica Minolta's newly developed digital paper, assures print quality on the ultra-high level of quality established by the R2 SUPER Series.

digital ICE technology



Red-eye correction

Simple automatic correction of the red-eye flaws common in flash portraits. Together with Konica Minolta's newly developed digital paper, guarantees high quality prints for all photos regardless of shooting conditions.

Standard functions provided by Konica Minolta's A.I.E. (Auto Imaging Enhance Technology)

Back light correction
In backlit scenes, people in the foreground tend to appear as shadowy figures against a washed out background. This function adjusts foregrounds and backgrounds separately, for beautiful, well-balanced prints.

High-contrast correction
Nighttime flash portraits and shots made under strong sunlight often show shadowy or washed out foregrounds and backgrounds. This function adjusts foregrounds and backgrounds separately for beautifully finished prints.

Automatic under/over exposure correction
Automatic adjustment of density and contrast assures the optimum development exposure, to obtain naturally beautiful prints even from over- and underexposed negatives.

Sharpness correction
Compensation to accentuate outlines. Delivers sharp images while reducing the impression of film particle graininess.

Soft-focus finish
Adds atmosphere to portraits and other special photos. Softens the non-outline sections of the image, for soft gradations in the overall finish.

Monochrome and sepia tone finish
Enables sophisticated monochrome and sepia tone effects for every kind of input media, including film.

Free trimming
Enables free adjustment of zoom rates and trimming relative to the center of the image. Allows close-ups of people, background cropping, and so on.

Smooth & clean construction

User-friendly design for efficient, stress-free operation.

Easy to use, even by novice operators

The system features a 15-inch LCD monitor, making it easy on the eyes even over prolonged use. The main menu provides a button for every operation needed to make normal prints from negatives or digital cameras. Even novice operators can start making input media prints from their very first day. Value-added prints like ID photos and frame photos are just as simple, requiring nothing more than a single click of an on-screen button.

High-speed digital camera prints. Images load and display faster.

Advanced scanning and image processing technology in the image controller allows digital camera images to load and display faster, for stress-free operation. Moreover, ultra-high quality is assured by Konica Minolta's A.I.E. (Auto Imaging Enhance) and digital camera one-channel technology.

Image load speed comparison
50 prints (each 127 x 89 mm) from 3-megapixel digital camera.

R2 SUPER Series: **1 minute 20 seconds**

Competitor minilab: **3 minutes**

One-click CD-R burning

No complicated settings required. A single click on the CD-R button in the menu is enough to burn CD-R discs at the same time that prints are made. Copying media data to CD-R discs works the same way, with a single click.

Variation prints

Specially designed R2 SUPER Series keyboard

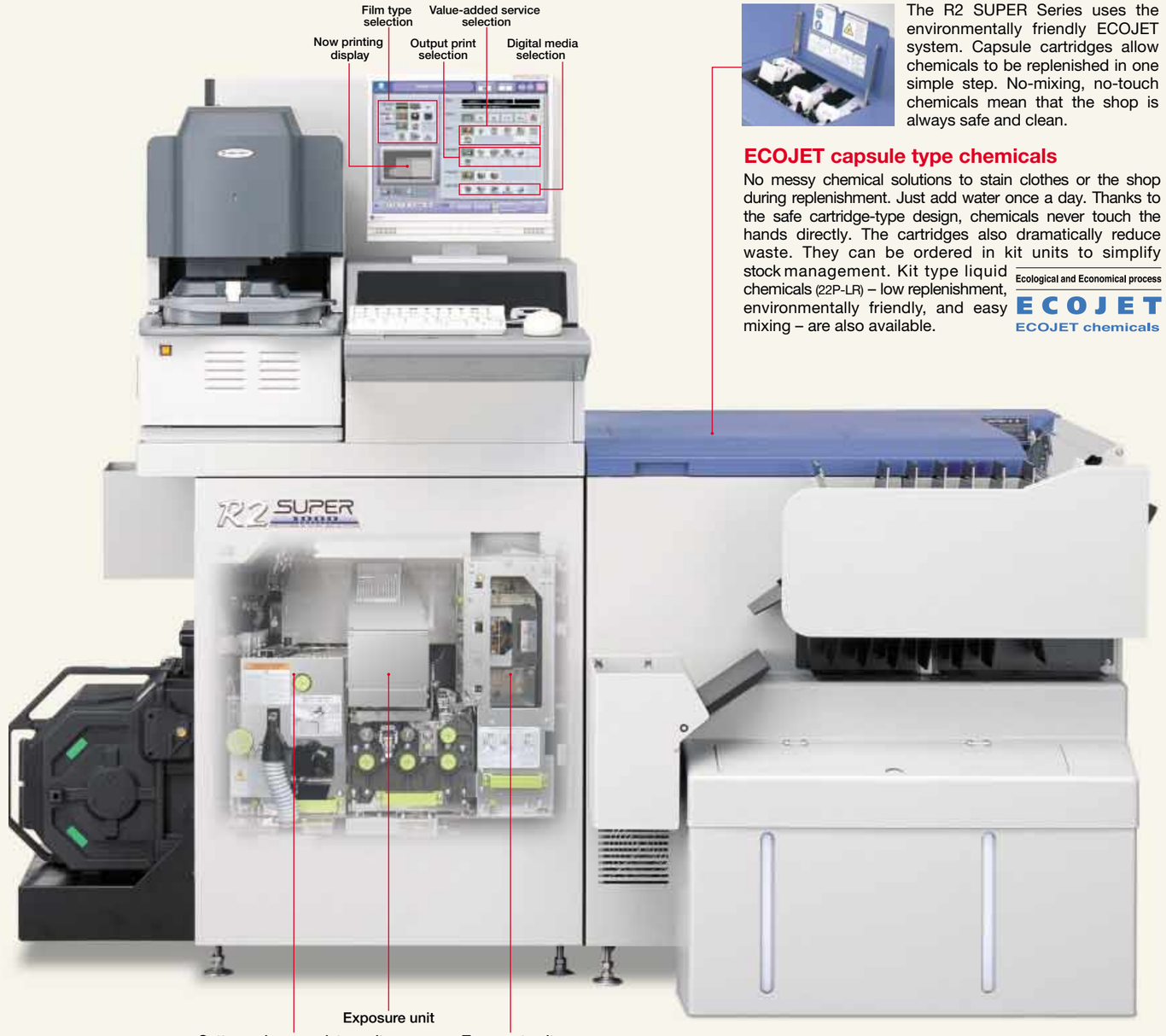
The specially designed keyboard is easy to use, even for novice operators. The new color correction keys make it simple to perform color density and gradation adjustments that formerly required training and experience.

Function keys
Provide shortcut functions when used with other keys

Numeric keys
Normally used to input the number of prints. Also select various functions when used with function keys.

Color correction keys
Color, density, and tone adjustment keys

Independent keys
Independent pass, start, sort, and position adjustment keys



Interior of printer with front panel open

Easy maintenance design.

The printer is designed like a copy machine, comprised of three lightweight and easily removable units. The front panel opens wide for easy cleaning and maintenance. Daily setup time is shorter, and printing work is more efficient.

Safe and clean ECOJET compact system

The R2 SUPER Series uses the environmentally friendly ECOJET system. Capsule cartridges allow chemicals to be replenished in one simple step. No-mixing, no-touch chemicals mean that the shop is always safe and clean.

ECOJET capsule type chemicals

No messy chemical solutions to stain clothes or the shop during replenishment. Just add water once a day. Thanks to the safe cartridge-type design, chemicals never touch the hands directly. The cartridges also dramatically reduce waste. They can be ordered in kit units to simplify stock management. Kit type liquid chemicals (22P-LR) – low replenishment, environmentally friendly, and easy mixing – are also available.

Ecological and Economical process
ECOJET
ECOJET chemicals

Faster, more versatile (optional software)

Hyper CD-R Burning Kit Type2

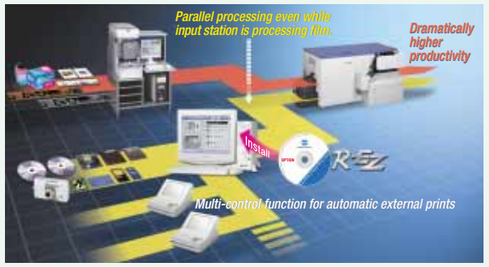
Available for an affordable investment, the Hyper CD-R Burning Kit consists of a PC and high-speed CD-R burning software designed especially for the R Series. It allows CD-R burning work to be completely separated from the minilab. CD-Rs can be burned at high speed while the main unit is scanning film, which reduces waiting time and stress. For example, the R2 SUPER Series main unit is capable of burning 12 CD-R discs per hour from 36-exposure film. The R2 SUPER Series + Hyper CD-R can burn 28 CD-R discs per hour.

CD-R Burning Time Chart

	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 (minutes)	
R2 SUPER 1000 + Hyper CD-R Burning Kit Type2		
Operating job	1 2 3 4 5 6	28 rolls/hour
Print	1 2 3 4 5 6	36exp. x 28 prints/hour
CD-R Burning	1 2 3 4 5 6	28 discs/hour
R2 SUPER 1000		
Operating job	1 2 3	12 rolls/hour
Print	1 2 3	36exp. x 12 prints/hour
CD-R Burning	1 2 3	12 discs/hour
Company A (with Optional PC Kit)		
Operating job	1 2 3 4	16 rolls/hour
Print	1 2 3 4	36exp. x 16 prints/hour
CD-R Burning	1 2 3	16 discs/hour

R-EZ

R-EZ improves photo-shop workflows by enabling the connection of multiple high-performance digital media input stations to R SUPER Series digital minilabs. It allows R-EZ input stations to take digital orders while other terminals perform tasks like making film prints or burning CD-Rs.



Printer driver

A special Windows XP/2000 printer driver allows the R Series to print image data from a wide variety of applications, exactly like a printer connected to your PC. Images from Photoshop, Illustrator, Powerpoint, and other PC applications can now be printed in true minilab quality.

Note: Depending on operating system and PC specifications, may not be available for some PC models. For details, see the printer driver catalog.

Caption edit software

The software can edit the caption letters with easy operation and make the high value prints with simple operation.

Separated system

World's highest level of resolution at 400 x 800 dpi.
Universal separated system for 10 x 15 print width.
Two types available, for processing capability
of 1,000 sheets/hour (127 x 89 mm) or 700 sheets/hour (127 x 89 mm).

Principal features

- High resolution 400 x 800 dpi images through newly designed S.E.A.D. exposure engine. Prints from digital cameras feature fine-grained gradations rivaling the richness and expressiveness of silver-halide images. Letters are crisp and sharp, exuding high quality.
- Output from many types of media, including DVD. Extremely fast loading of images from digital cameras. A single system to deliver every kind of digital service.
- Digital ICE and red-eye correction – indispensable features for digital services. Also one-click CD-R burning, built in as a standard function.
- Inherits the acclaimed easy operation of the R1 SUPER Series, with identical procedures for all print operations and frequently used function buttons arranged in easy to find locations on the main menu.

Principal processing capabilities

Product name		R2 SUPER 1000	R2 SUPER 700
Film-to-print speed	3R (127 x 89mm)	1,000prints/hour	700prints/hour
	4R (152 x 102mm)	900prints/hour	600prints/hour
Digital camera-to-print speed (3 megapixels)	3R (127 x 89mm)	1,100prints/hour	700prints/hour
	4R (152 x 102mm)	1,000prints/hour	600prints/hour

Special digital media input station (DS-3000)

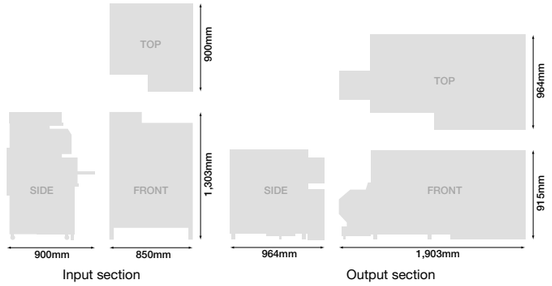
Through a combination with the processor module of the separated type R2 SUPER Series, the system can be upgraded to a high-speed, high quality dedicated digital image printer. DS-3000 system configuration consists of a PC, monitor, card reader, and flatbed scanner. Like the input module of the separated system, the operating screen is easy to use and understand, requiring no operator training.

Minimum and maximum print sizes

3R(127 x 89mm)

~10 x 15inch(254 x 381mm)

Dimensions diagram



Input section

Output section

Compact system

World's most compact system (1.48 m² footprint) in 10-inch class.
World class high resolution, at 400 x 800 dpi.
Two types available, for processing capability
of 1,000 sheets/hour (127 x 89 mm) or 700 sheets/hour (127 x 89 mm).

Principal features

- High resolution 400 x 800 dpi images through newly designed S.E.A.D. exposure engine. Prints from digital cameras feature fine-grained gradations rivaling the richness and expressiveness of silver-halide images. Letters are crisp and sharp, exuding high quality.
- Output from many types of media, including DVD. Extremely fast loading of images from digital cameras. A single system to deliver every kind of digital service.
- Digital ICE and red-eye correction – indispensable features for digital services. Also one-click CD-R burning, built in as a standard function.
- Inherits the acclaimed easy operation of the R1 SUPER Series, with identical procedures for all print operations and frequently used function buttons arranged in easy to find locations on the main menu.

Principal processing capabilities

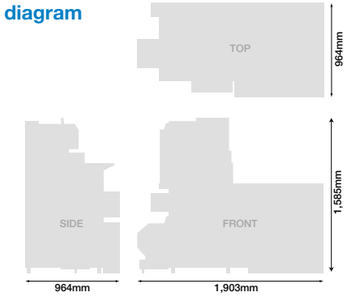
Product name		R2 SUPER 1000 COMPACT	R2 SUPER 700 COMPACT
Film-to-print speed	3R (127 x 89mm)	1,000prints/hour	700prints/hour
	4R (152 x 102mm)	900prints/hour	600prints/hour
Digital camera-to-print speed (3 megapixels)	3R (127 x 89mm)	1,100prints/hour	700prints/hour
	4R (152 x 102mm)	1,000prints/hour	600prints/hour

Minimum and maximum print sizes

3R(127 x 89mm)

~10 x 15inch(254 x 381mm)

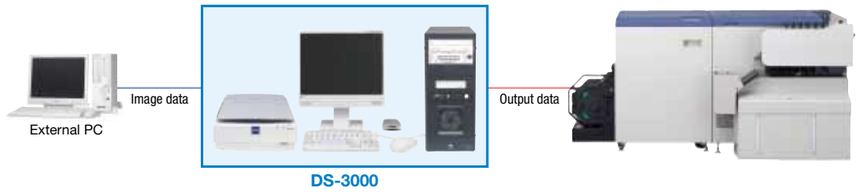
Dimensions diagram



Shop solutions: examples of superior expandability at work

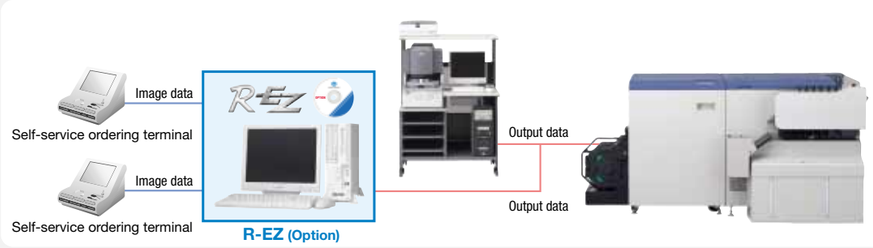
Dedicated digital printer (DS-3000)

For a vital advantage in the burgeoning age of digital imaging, upgrade the system to a high-speed, high-quality dedicated digital image printer. The optimal system for the network print business and other new business opportunities.



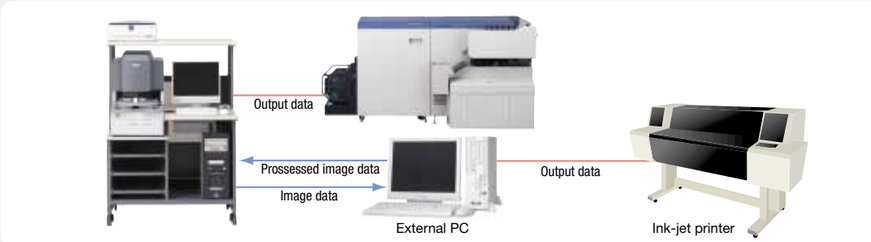
Connection to high-performance multi control PC's

Installing R-EZ on a sub terminal and connecting it to a printer allows digital camera prints to be made at the same time as film prints. The R-EZ terminal also functions as a print server even while the input station is working for prints. This allows automatic printing by multiple self-service order stations.



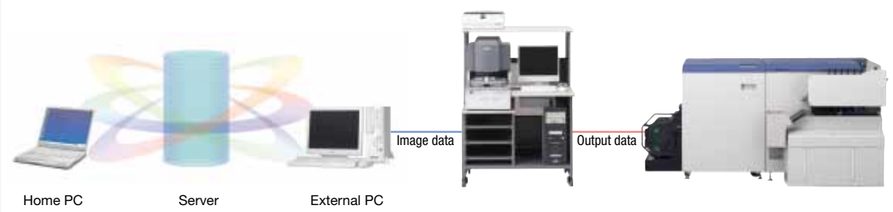
Editing and output of scanned images

Transfer images from the high-resolution film scanner to an external PC, edit the images in applications such as Adobe Photoshop, and output high-resolution images on a large format ink-jet printer. A high value-added service.



Internet order system

An internet print order system can be constructed by connecting an external PC in your shop to a dedicated server to which customers upload their images. Internet print ordering is an optional service. For specifications and details, contact a Konica Minolta distributor.



Options and accessories to fully utilize the R2 SUPER Series capability

CD-R Drive

DVD/CD drive can read DVD+/-R, CDs and write on CD-R.

48X, 700 MB. Special CD-R discs for photo burning

CD-R discs developed especially for recording photo data. Fewer write errors and higher image quality put these discs in a different dimension compared to discount mass-market discs. They support high-speed 48X writing, to extract the maximum performance from the R2 SUPER Series.

The discs are supplied in double-sided soft cases that can hold index prints. The cases have six album holes for filing in photo albums. One set of CD-R discs contains 50 discs, 50 soft cases and 50 instruction sheets.

Options for easy paper loading

Double magazine unit

Allow two different paper sizes to be loaded, eliminating the bother of exchanging magazines and the paper loss that occurs when magazines are exchanged.

Spare magazines

8 inch

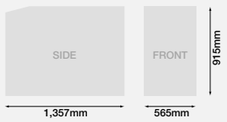
10 inch

Magazines for 8 inch and 10 inch paper are available.

Compact, easy-to-operate negative developer

The compact, high-performance, low-form CL-KP46J-A is available as a negative developer. Featuring a large image display and drawer-type loading slot, it is very easy to use.

•Transport method: Short leader transport (special leader for APS) •Film formats: 110, IX240, 126, 135, 120, 220 •Processing capacity (rolls/hour): 135-24/46 rolls, IX240/46 rolls, 120/58 rolls •Processing speed: 539.7 mm/minute (line speed) •Processing time: 8 minutes 35 seconds (dry to dry) •Dimensions: 565W x 915H x 1,357D mm •Weight: Approx. 165 kg (main unit only), approx. 225 kg (including solutions)



Automatic film carrier for increasing work efficiency

Automatic film carrier for APS film (APS-AFC Ⅱ)

Automatic film carrier capable of reading information on APS film.

Lineup of options applicable to various types of films

Universal carrier (UFC Ⅱ)

Universal carrier for printing from 135-cut negative, slide mount (135/APS), 120, and 110 films. Masks for each film size except 135 are required separately.

APS mask Ⅱ for universal film carrier

Mask for printing from APS film, using a universal carrier.

Slide mount mask Ⅱ for universal film carrier

Mask for printing from 135/APS reversal film mounted, using a universal carrier. (Reading information on APS film is disabled.)

110 mask Ⅱ for universal film carrier

Mask for printing manually from 110 film, using a universal carrier.

120 mask Ⅱ for universal film carrier

Mask for printing manually from 120/220 film, using a universal carrier.
Sizes for 6 x 4.5, 6 x 6, 6 x 7, 6 x 8, and 6 x 9 are available.

Konica Minolta brand interior setup and shop exterior

Setup example of separated system

Setup example of compact system

Shop exterior example

Specifications & functions table

Main specifications and functions of two separated systems and two compact systems.

R2 SUPER main specifications

Product name		R2 SUPER 1000	R2 SUPER 700	R2 SUPER 1000 COMPACT	R2 SUPER 700 COMPACT
System configuration		Input section (workstation) and output section (printer processor) separated units		Integrated type	
Imaging section		Independent B/G/R line photometry using 3-line CCD; LED light source			
Film-to-print speed	3R (127 x 89mm)	1,000 prints/hour	700 prints/hour	1,000 prints/hour	700 prints/hour
	4R (152 x 102mm)	900 prints/hour	600 prints/hour	900 prints/hour	600 prints/hour
Digital camera-to-print	3R (127 x 89mm)	1,100 prints/hour	700 prints/hour	1,100 prints/hour	700 prints/hour
speed (3 megapixels)	4R (152 x 102mm)	1,000 prints/hour	600 prints/hour	1,000 prints/hour	600 prints/hour
Exposure system		S.E.A.D.(Solid state Electro-optic shutter Array Device)			
Paper width		89, 102, 120, 127, 152, 165, 178, 203, 210, 216, 254 mm			
Dimensions	Input section	850 (W) x 1,303 (H) x 900 (D) mm		1,903 (W) x 1,585 (H) x 964 (D) mm	
	Output section	1,903 (W) x 915 (H) x 964 (D) mm			
Footprint	Input section	0.70m^2		1.48m^2	
	Output section	1.48m^2			
Weight	Input section	Approx. 100kg (including dedicated desk)		Approx. 510kg	
	Outtput section	Approx. 420kg			
Monitor		15-inch LCD			
Magazine		Single magazine (Double magazine optional)			

<Input section>

Film types applicable		Color negative film: 135, APS, 110, 120 (6 x 4.5 - 6 x 9) Color reversal film: 135, APS, 120, (6 x 4.5 - 6 x 9); Slide mount (135, APS) B&W, Sepia film: 135
Media types applicable	CD-ROM	●
	FD	●
	Compact flash	●
	Smart media	●
	Memory Stick	●
	SD card	●
	Micro drive	●
	Multi media card	●
	XD card	● (required adapter)
	DVD-ROM*1	●
Prints	Flatbed scanner	●
Using external PC	PCMCIA, MO, ZIP	●
Digital ICE		●
Red-eye correction		●
CD-R burning		●

<Printer section>

Maximum exposure width	254mm
Maximum exposure length	381mm
Output resolution	400 x 800dpi

<Paper processor section>

Transport system	Cut sheet/roller transport system
Processing agent	ECOJET-P COMPACT/CPK2-22LR
Processing time (dry-to-dry)	2min. 25sec.

<Expandability>

Connection to external input machines (Terminal PC)	●
Printing from external PC or scanned images transport to external PC	●

*1) Not applicable to DVD-RAM

Digital & network service

The full range of photo services, enabled by full-digital minilabs.

Multi-input

Silver-halide film

135 color negative
135 monochrome negative
135 reversal
APS reversal
APS negative, reversal
APS sepia negative
120 and 220 negative
120 and 220 reversal

Digital camera media


Smart media

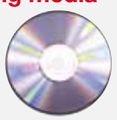

Compact flash


Memory stick


SD card

Digital recording media


DVD


CD


MO


Zip


FD

Prints (from photos without negatives)


Color prints


Black-and-white prints


R2 SUPER 1000/700

R2 SUPER 1000 COMPACT/700 COMPACT


Storefront ordering terminals can also be connected.

Faster, more versatile (options)

Hyper CD-R Burning Kit Type2

Separates CD-R burning work from the R2 SUPER Series main unit. Enables high-speed CD-R burning while the main unit is scanning film.

Caption edit software

The software can edit the caption letters with easy operation and make the high value prints with simple operation.

R-EZ

Digital Media Input & Printer Server Software

High-performance software to dramatically enhance photo shop productivity and extract the maximum performance from digital minilabs.

Printer Driver

(for Windows XP/2000)

Allows document data (Photoshop, Illustrator, Powerpoint, etc.) to be output in high quality on R2 SUPER Series minilabs.

Multi-output

Long Life 100


3R


4R


8x12inch


10x15inch

Variation prints


ID photos


Package prints


Album prints


Frame prints


Contact prints


Greeting cards


Caption prints (option)

CD-R burning service


CD-R


(index prints)

Film image data storage service


DVD


MO


Zip


FD

Document data

Photoshop

Illustrator

Powerpoint