

QD-21 PLUS

A new horizon in imaging



QD-21 Plus Options

Image Editing System

Konica QD-STATION further widens the range of services that can offered to customers.



Supports writing of image data

Allows you to write data input via the scanner of the QD-21 Plus main unit to MO discs, floppy disks, etc. Using the CD-R writer supplied with the QD-STATION, you can also offer a service that writes input data to QD-ALBUM.



Rich array of software applications to increase customer satisfaction

The standard package of software applications includes not only Q-File, Q-Frame, and contact templates, but also caption, editing layout, ID photo, and package print templates.

* Software may also be purchased separately.
** Package design may differ from above photo.

High-quality service for studios, design houses, and printing companies

Meeting the growing demand for new print services

- Improve your image with a beautiful new menu.
- Differentiate yourself from the competition with a handsomely finished presentation.
- Create marketing tools like posters and direct mail brochures.
- Make albums of commemorative snaps or studio photos.
- Keep a record of construction photos.



Freely add captions

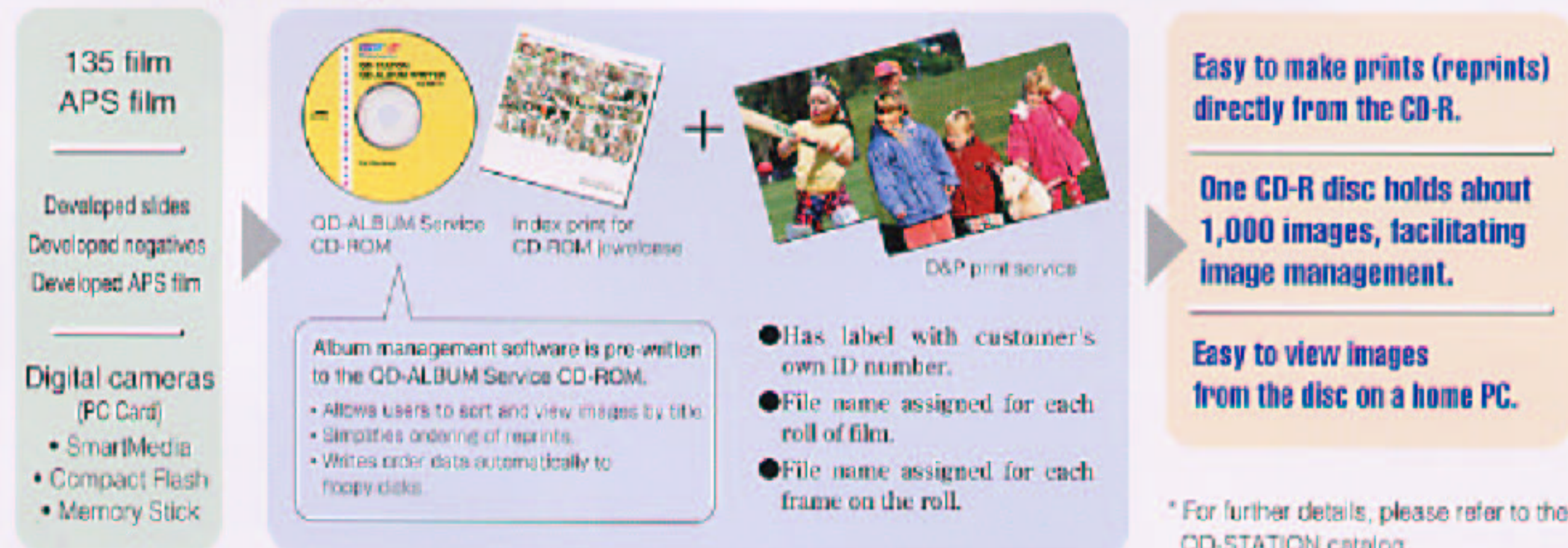
Customers can edit their images themselves

Rich selection of templates

Making it easy to keep track of image data

Konica QD-ALBUM delivered with D&P prints. You can also write your customers' photos to CD-R discs.

* Prints other than D&P prints can be accepted.



QD-21 Plus Film Processor

World's fastest film processor brings outstanding efficiency

Uses the world's fastest film process, ECOJET HQA-N (4 minutes 22 seconds). Enables outstanding working efficiency, so you never feel overburdened even on the busiest days.

Standard order feeder accepts up to 6 rolls



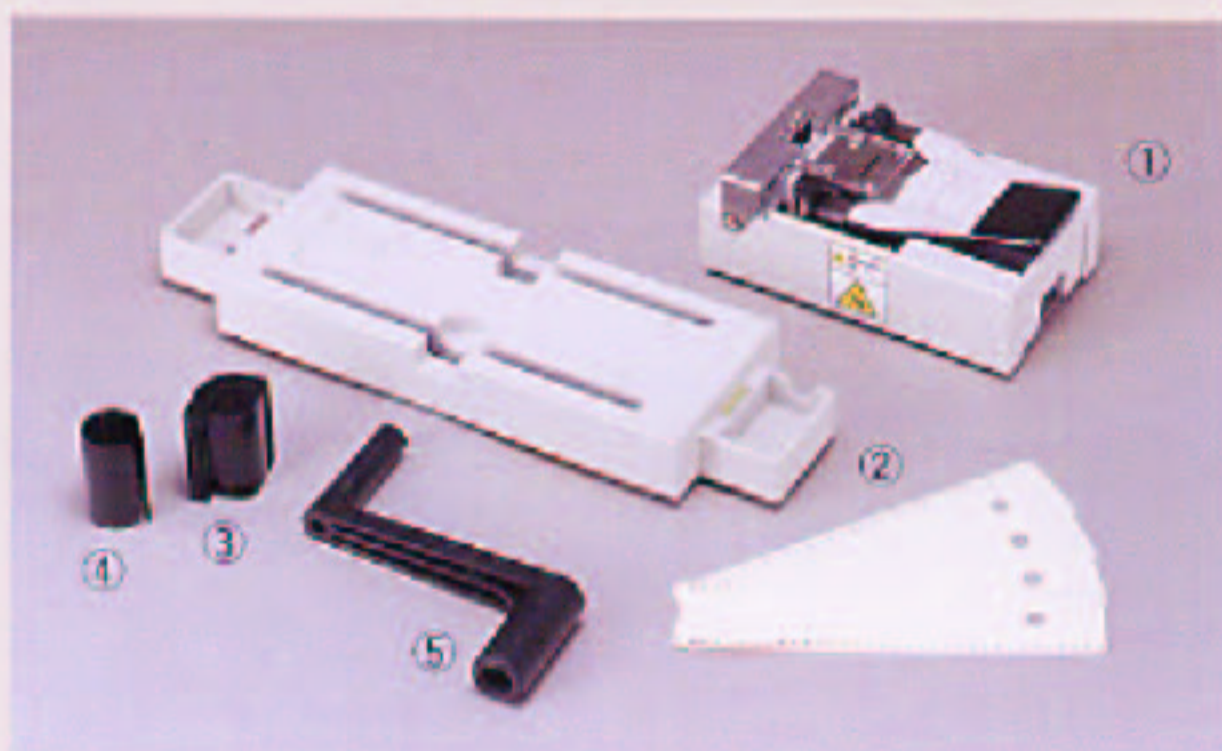
For 135 patrones, uses a leaderless method. Up to 6 rolls can be loaded, for greater working efficiency. Rush jobs can be given higher priority.

* 135 film only, short leader is required for APS film.

** When 6 rolls are loaded, 5 rolls are on standby while 1 roll is processed.



Accessories



- ① Lead cutter
- ② Splice gauge,
for attachment to short leader for APS film processing
- ③ APS magazine adapter
- ④ Minipatrone adapter
- ⑤ Manual handle for use in power outages

Options



- ① Detacher
- ② Reattacher
- ③ F-R film reshaper
- ④ Cartridge tool
- ⑤ Film tip iron



QDF-32U/T Film Processor

● Specifications

Model name	QDF-32UJUL (standard) / T (CE standard & Others)
Dimensions	455 X 790 X 1180 (w/d/h)
Weight	Approx. 100 kg (excluding processing solution)
Electrical capacity	Single-phase 200V AC to 240V AC 2.4 KW

● Film Processor module

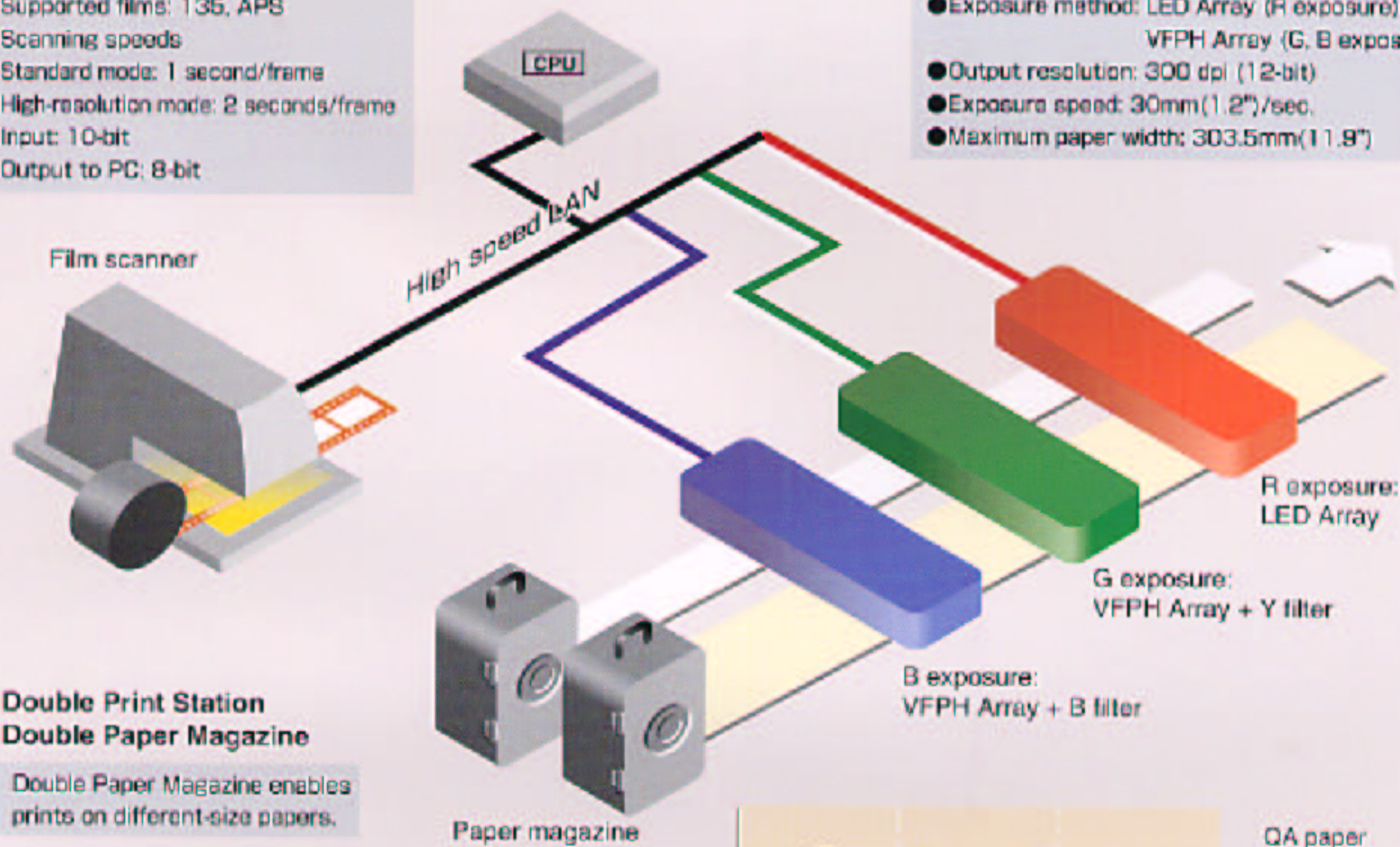
Development method	135/APS dual transport 135 film: self-support transport (leaderless) APS film: short leader transport
Processing speed	Approx. 700mm(27.6")/min
Processing chemicals	Konica ECOJET HQA-N N1 to N4 (All-in-One cartridge)
Processing time	N1 to N4: 3 min. 30 sec. (Dry-to-dry 4 min. 22 sec.) [N1]: 100.0 sec. [N2]: 23.8 sec. [N3]: 47.6 sec. [N4]: 46.7 sec. [Dry]: 44.3 sec.
Processing rack method	Roller transport
Processing rack capacity	[N1]: Approx. 4L [N2]: Approx. 3L [N3]: Approx. 3L X 2 [N4]: Approx. 3L X 2
Water replenishment method	Separate replenishment by bellows pump (replenishment tank capacity: 1.0L)
Overflow tanks	2 tanks (JUL standard) 1 tank (CE standard & others)
Auto feeder	Up to 6 rolls (1 processing, 5 standby)
Operating environment	Temperature: 10°C to 30°C Humidity: 30% to 80%
Cold weather adjustment	Automatic temperature adjustment when temperature falls below 20°C during timer operation

* World's fastest as of January 2000

High Speed Film Scanner and Full-Digital Exposure

High Speed Film Scanner

- Supported films: 135, APS
- Scanning speeds
 - Standard mode: 1 second/frame
 - High-resolution mode: 2 seconds/frame
- Input: 10-bit
- Output to PC: 8-bit



High Speed Printing

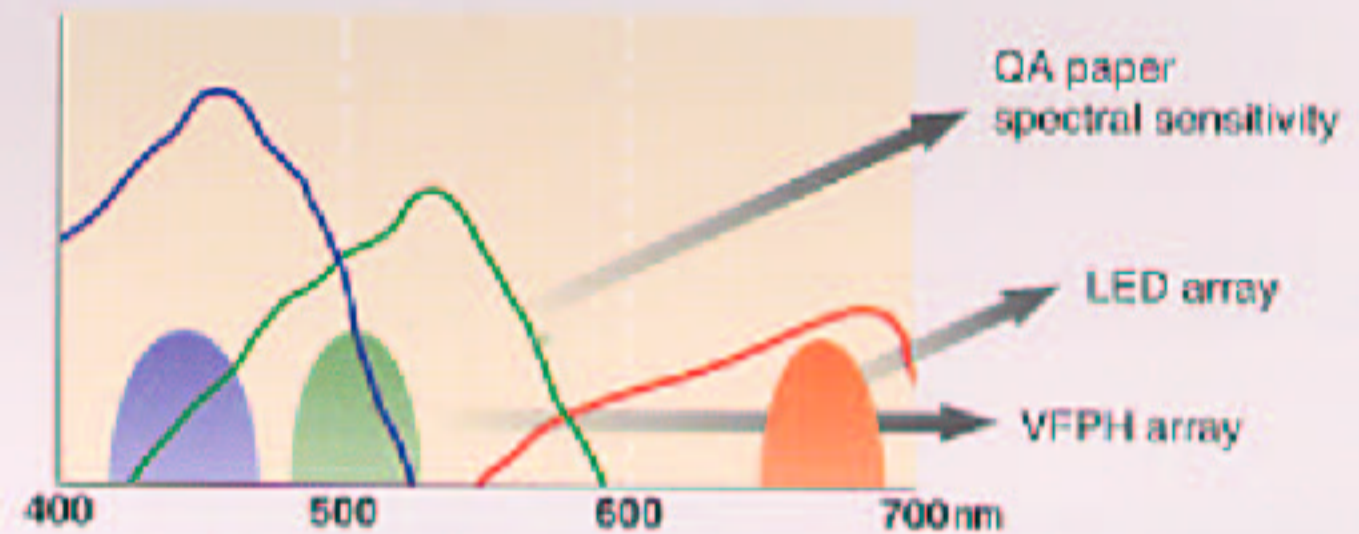
- Exposure method: LED Array (R exposure)
VFPH Array (G, B exposure)
- Output resolution: 300 dpi (12-bit)
- Exposure speed: 30mm(1.2")/sec.
- Maximum paper width: 303.5mm(11.9")

Double Print Station Double Paper Magazine

Double Paper Magazine enables prints on different-size papers.

Maximum Printing Performance

- 127X89mm(5"X3.5", double vertical exposure):
⇒ Approx. 1,800 prints/hour
- 102X152mm(4"X6", horizontal exposure):
⇒ Approx. 1,180 prints/hour



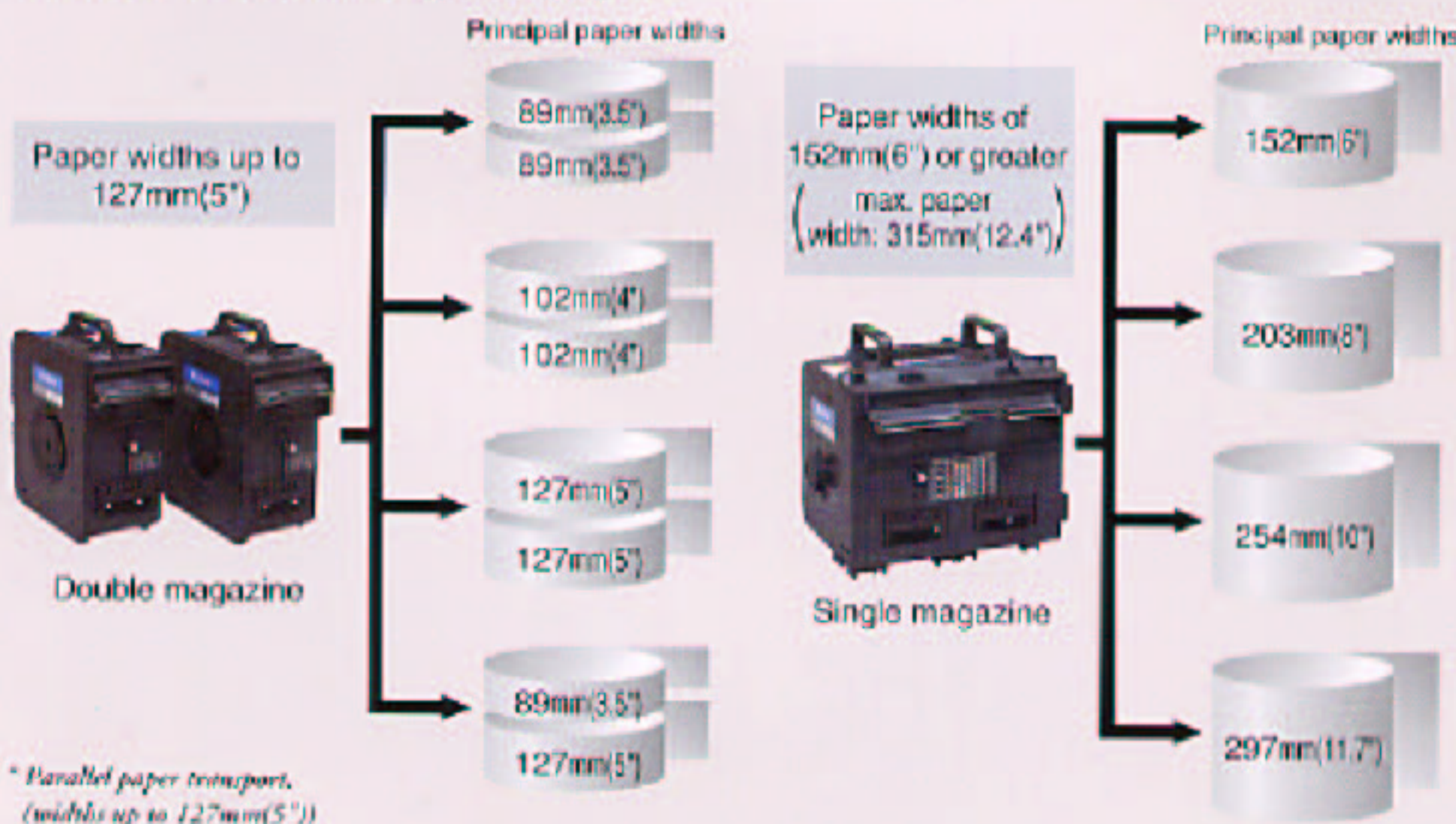
Double Paper Transport System

The QD-21 Plus features a double paper magazine that allows paper of the same width of 127mm(5") or less to be loaded in two magazines at the same time. This system was developed by Konica to enable high-speed processing.

* Paper with widths of 152mm(6") or greater must be loaded in a single magazine.

High-precision paper transport technology

Examples of commonly used papers



Output print sizes



- 89 × 127mm(3.5" × 5")
 - 102 × 152mm(4" × 6")
 - 127 × 178mm(5" × 7")
 - 165 × 216mm(6.5" × 8.5")
 - 203 × 254mm(8" × 10")
 - 279 × 356mm(11" × 14")
 - 305 × 457mm(12" × 18")
- *max. exposure width 303.5mm(11.9")

* Parallel paper transport.
(widths up to 127mm(5"))



* Photo shows QD-21 PLUS with options.

Easy operation touch screen

The system features a touch screen that is easy for anyone to use. Enlargement, reprints, and various kinds of image processing are only a touch of the finger away. Processing status can be checked in an instant.



Supports professional digital cameras

The QD-21 Plus can easily print the large-volume data produced by professional digital cameras.

Options

120-size film scanner option

Supports sizes 6X4.5, 6X6, 6X7, 6X8, and 6X9. Quality is easily high enough for professional use. The QD-21 Plus comes with pre-installed color management software to assure a high level of color reproduction. For users with even more exacting needs, a high-quality drum scanner can be attached via the QD-STATION.

A3 flatbed scanner option allows input of large-format documents

Making print copies is as easy as placing the document or photo on the flatbed scanner. The magnification ratio can be freely selected up to A3 size. Make reprints even without the original negatives. The scanner installs conveniently on the upper surface of the main unit.



- ① Manual negative carriers
- ② 135/1X240 dual auto negative carrier
- ③ Slide mount carrier

QD-21 PLUS

De facto standard minilab for the 21st century

Supports input from 120-size film and a variety of paper sizes

The QD-21 Plus supports any and every type of digital print service. Connect the optional QD-STATION to dramatically expand the range of your service offerings. Image processing and CD-R write services are available through LAN connections to terminal PCs. With its outstanding operability, the QD-21 Plus takes your photo business into the realm of the printing business.



New

**Large-format tray for easy retrieval of sizes beyond 152mm(6").
New sorter supports up to 8 orders.**

One stocker holds up to 80 sheets of paper, paper width 152 mm(6") or less and transport width 254mm(10") or less. Supports up to maximum of 8 orders.

Input from every type of media, with PC Card slot and floppy/ CD-ROM drives standard

Input devices for the most commonly used media are built in, eliminating installation trouble. Printing from digital cameras and CD-ROM discs couldn't be simpler. The PCMCIA Card reader offers support for Compact Flash, SmartMedia, and Memory Stick media.



PC Card adapters
① Memory Stick
② SmartMedia
③ Compact Flash

**Media cards and Memory Stick adapter are optional.*

New

Image Processing Board with 256MB Memory

Increases the memory on the image processing board to 256MB. The entire board is replaced. 256MB of memory is more than enough for all everyday print service processing.

New

Ultra-high-speed Pentium III processor standard

For smooth, speedy processing, the system features a 450MHz Pentium III processor with Intel's newest CPU architecture. Combined with the capacious system memory, this provides more than enough power for demanding digital print jobs.

High speed & High quality built-in scanner supports slide film

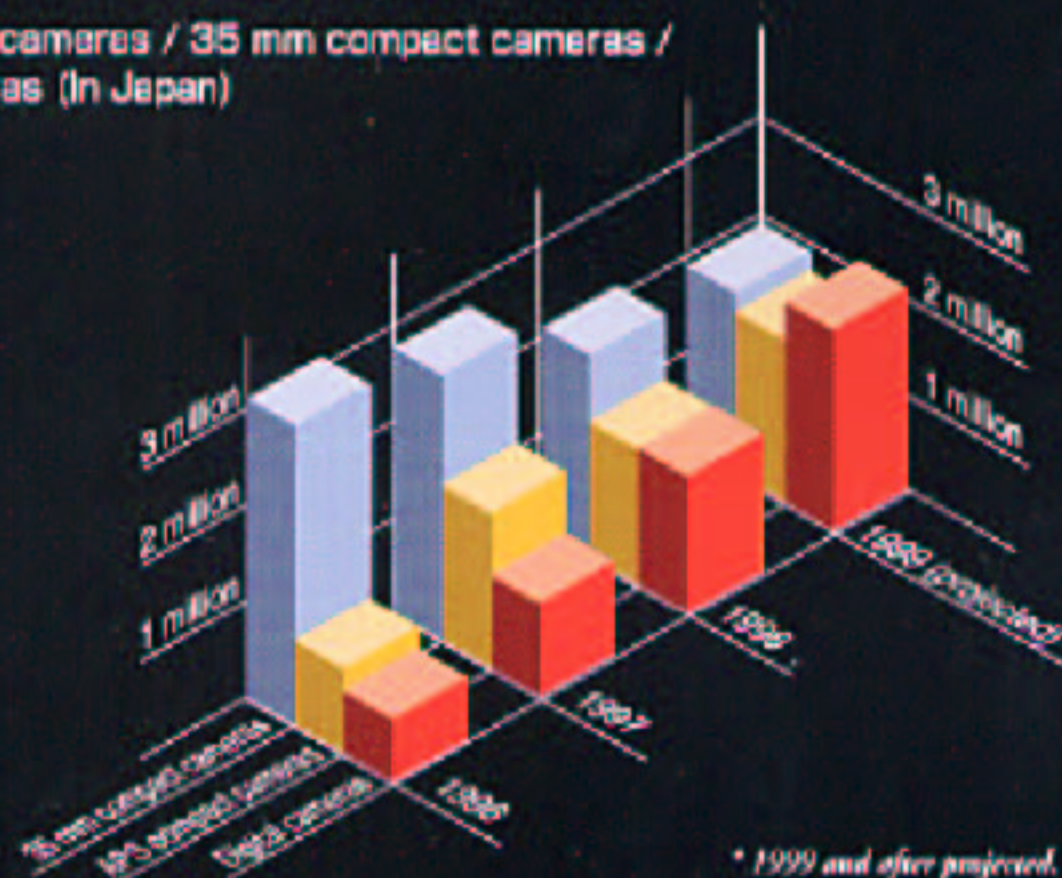
The film scanner installed as standard equipment on the main unit boasts the high speed processing times, for speedy scanning of 35 mm negative film, slide film, and APS film.



Konica's proposal for completely new photo services

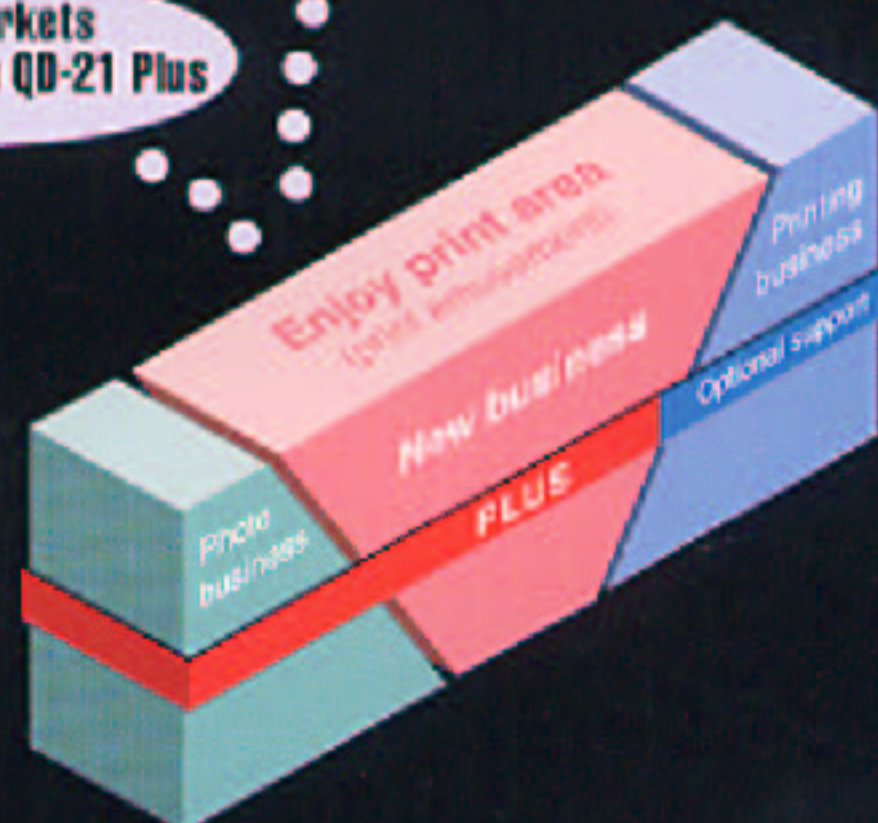
The QD-21 has evolved to meet the needs of the ever diversifying photo business. On a high level of quality, it enables services that have not been possible up to now, such as small-lot personal printing. The QD-21 Plus eliminates the border between the photo business and the printing business. With support for popular formats like Q-File prints and powerful network functions, it represents a remarkable step forward for the print business.

■ Shipments of digital cameras / 35 mm compact cameras / APS compact cameras (In Japan)



The QD-21 Plus – Removing the border between the photo business and the printing business

New markets enabled by the QD-21 Plus

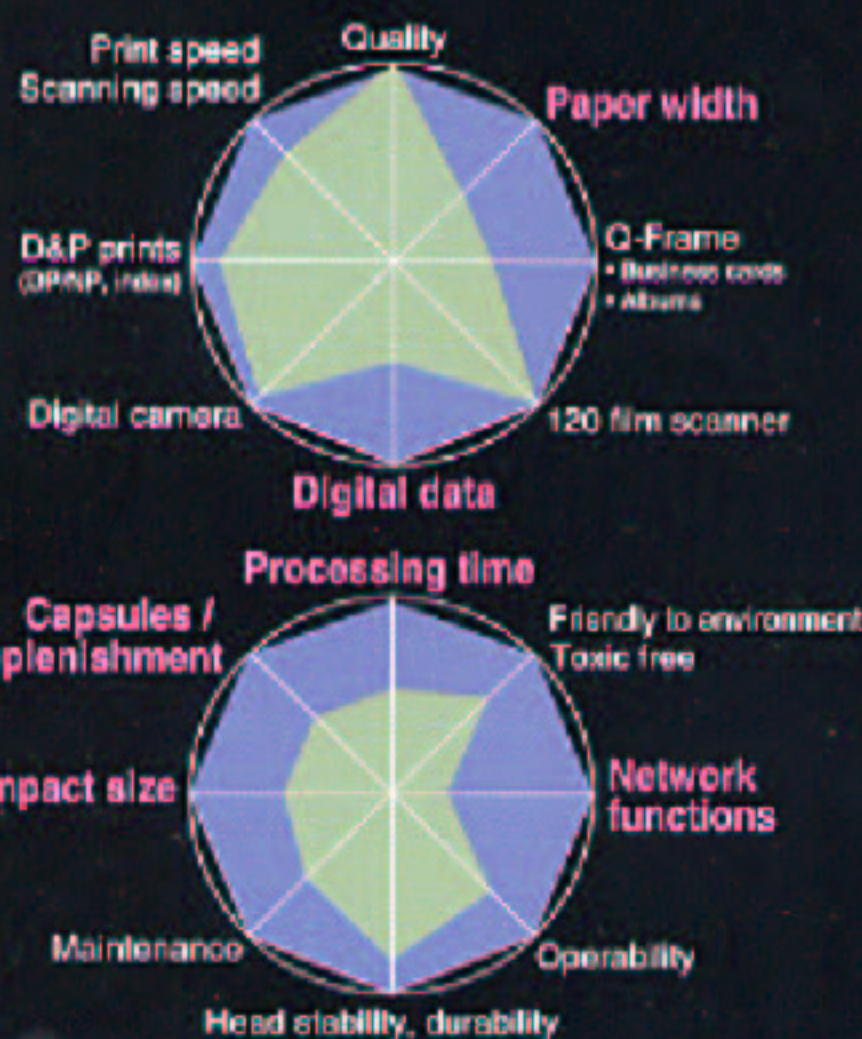


Multi-shop deployment via networks and Internet

The QD-21 Plus features powerful network functions. LAN connections to a QD-STATION enable a wide assortment of new applications. Internet connections enable a global print business with a multi-shop configuration. Konica proposes a new kind of business to encompass the Internet and new media.

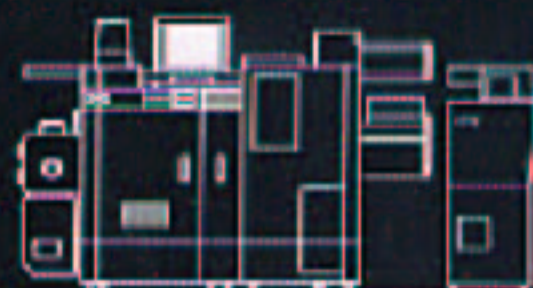
The overwhelming superiority of the QD-21 Plus, clear at a glance

The performance of the QD-21 Plus is so clearly superior that comparisons are almost meaningless. It enjoys an overwhelming advantage in print variations, speed, operability, quality, safety, maintenance, and network functions.



Compact footprint from digital design

The QD-21 Plus is an integrated system that includes a film scanner, flatbed scanner, PC Card slot, and floppy disk and CD-ROM drives. All of these functions are packed into a compact design that fits comfortably into a shop with as little as 150 square feet (13 square meters) of floor space.



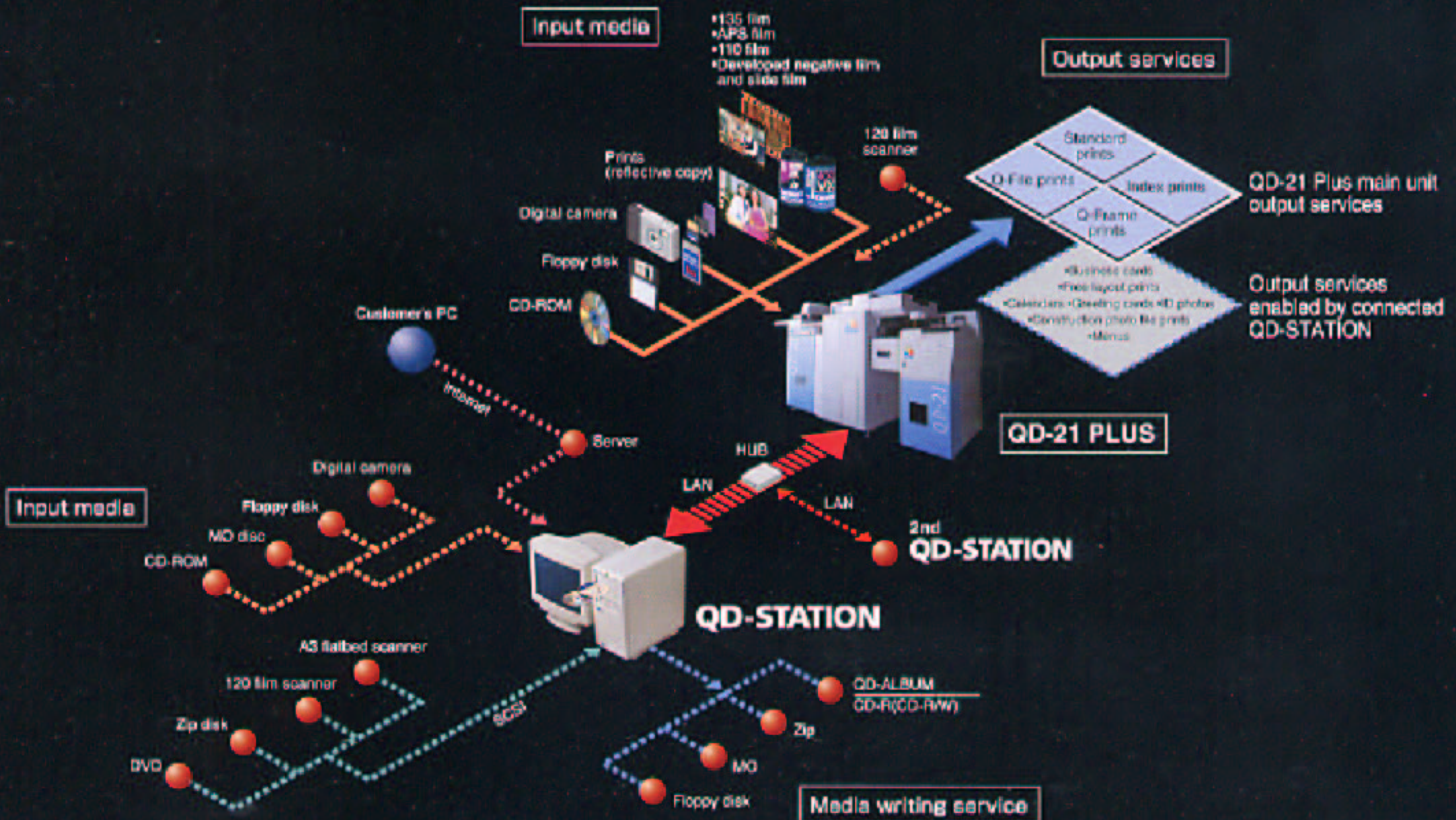
Footprint of full-specification QD-21 Plus



Footprint of conventional full-specification minilab

QD-21 Plus – The only choice 21st century technology from Konica to support the difficult digital print business

As digital cameras grow more popular, customers are demanding the ability to choose the size and design of their prints, along with the scene and number of prints. Shops that strive to give customers what they want are faced with longer hours of customer service and a host of other problems. Konica takes these problems seriously, and has found a solution – the QD-21 Plus full-digital minilab. Count on Konica to support the print shop of the 21st century.



The QD-21 Plus – the only system worthy of the name full-digital minilab Software for enhanced functionality and image quality, eliminating worries about replacement

The QD-21 Plus – new and improved,
the de facto standard minilab for the 21st century

The QD-21, trailblazer of the emerging digital age, continues its evolution. Moving far beyond the territory of conventional D&P prints, it ushers in the age of one-to-one service with functionality to meet any and all printing requirements. With the QD-21 Plus, your shop will be ahead of the competition and ready for the 21st century. Turn every type of print service into a new business opportunity. As customer requirements change, respond by simply upgrading the software. Long-term satisfaction is assured. The QD-21 Plus – truly the only choice. The crystallization of technology of technology for the 21st century, with an open road to future development through network support. Delivering higher image quality and more advanced functionality than ever before, the incomparable QD-21 Plus gives you an overwhelming advantage in the photo business of the future.



Input Media Supported by QD-21 Plus Main Unit

135 color film	Requires optional dual ANC
135 slide film (sleeve)	Requires optional dual ANC
135 slide film (mounted)	Requires optional mount carrier
K240 color negatives	Requires optional dual ANC
K240 color slides	Requires optional dual ANC
120 color film	Requires optional scanner
CD-ROM	●
Floppy disks	●
CompactFlash	Requires adapter
SmartMedia	Requires adapter
PC Card memory	●
Memory Stick	Requires adapter
MO discs	Requires MO drive
LAN data input	●

QD-21 Plus Functions

External PC connection	●
120 film scanner	○
Shop net service	●
Macintosh service	○
Protect settings	●

QD-21 Plus Applications and Utilities

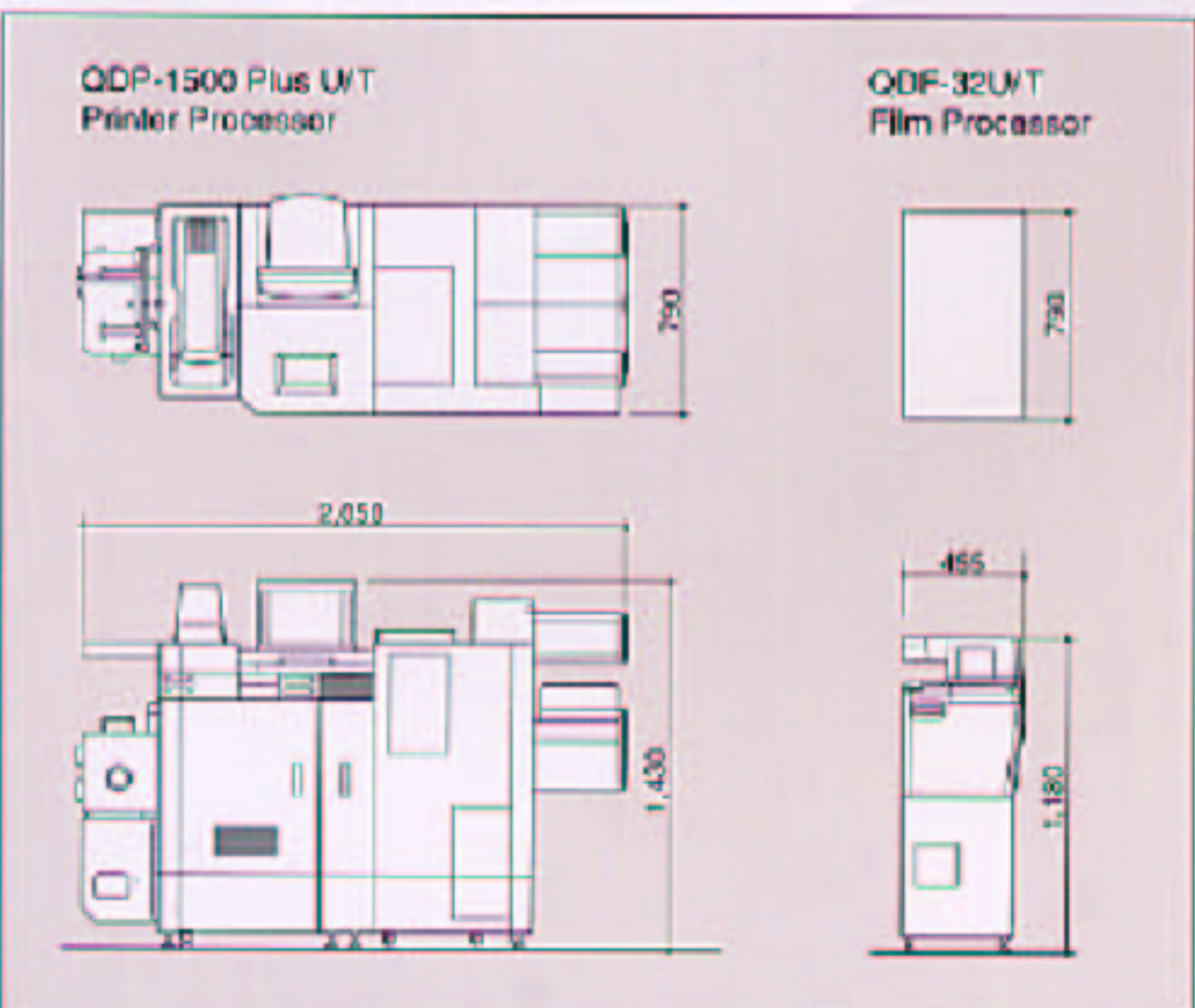
Main software	Plus version
Photoshop	○
Macintosh driver	○
Virus checker	●
MCS (remote maintenance)	○
NT utilities	○

QD-21 Plus Film Print Processing Capacity

Print Size	Magazine Configuration	Standard Mode	High-speed Mode
135 full 102x152mm(4"x6") 24EX single print	102mm(4") width, single magazine	560 prints/hr.	640 prints/hr.
135 full 102x152mm(4"x6") 24EX double print	102mm(4") width, double magazine	1050 prints/hr.	1160 prints/hr.
K240 (C/H/P) C:64%, H:32%, P:4% 24EX	89mm(3.5") width, double magazine	600 prints/hr.	800 prints/hr.
	127mm(5") width 89mm(3.5") width	500 prints/hr.	580 prints/hr.
135 full (Q-file 10) A4-size, 24EX	297mm(11.7") width, single magazine	25 rolls/hr. A4:75 prints/hr.	36 rolls/hr. A4:108 prints/hr.
135 full (A4) 11 print/frame	297mm(11.7") width, single magazine	144 prints/hr.	222 prints/hr.
135 full (A4) printing some frame		300 prints/hr.	300 prints/hr.

* Total print processing time including loading and unloading of film.

External Dimensions



QD-21 Plus Printer Processor Specifications

General	
Model name	QDP-1500 Plus U(TL standard) / T(CE standard & others)
Dimensions	2050X790X1430 (w/d/h)
Weight	Approx. 500 kg (excluding processing solution)
Electrical Capacity	QDP-1500 Plus U Single-phase 200V AC to 240V AC and 120V AC 7.0 KW QDP-1500 Plus T Single-phase 200V AC to 240V AC 7.0 KW
PC specifications	
CPU	Pentium III
Frequency	450MHz
Motherboard	P6BX/A
CD-ROM drive	x40 EIDE
Floppy disk drive	2-mode
Hard disk drive	8.5 GB
PC Card reader	2 slots
SCSI adapter	AHA2910C (Adapted)
Video card	ATI/AGP
Memory	256 MB (optional 128 MB expansion available)
Zip drive	○
LAN card 1	ET/TX-PCI (G-DATA)
LAN card 2	EthernetXL (3Com)
Operating system	Windows NT 4.0
Main unit specifications	
CRT	Touch panel
External PC LAN interface	●
Sorter	8 orders
HDC board (head control)	HDC board (head control)
Auto-negative carrier	○ Dual 135/APB (required at time of purchase)
Flatbed scanner	○
120 film scanner	○
Magazine, narrow width	● (2 units supplied)
Magazine, wide width	● (1 unit supplied)
QD-STATION	○
Printer module	
Exposure method	Full-digital exposure B/VFPH, G/VFPH, R/LED
Paper type	Konica QA paper
Principal paper sizes	Paper width X roll length ①89mm(3.5")X175m ②102mm(4")X175m ③127mm(5")X175m ④203mm(8")X85m ⑤254mm(10")X85m ⑥297mm(11.7")X85m
Max. paper width	315.0mm(12.4") (exposed area 303.5mm(11.9"))
Max. paper transport length	465mm(18.3")
Output resolution	300dpi
Print capacity	Max. capacity (continuous printing of same negative) 127x89mm(5"x3.5"): Approx. 1,800 prints/hr. 102x152mm(4"x6"): Approx. 1,180 prints/hr. Real capacity (Konica operating standard) 127x89mm(5"x3.5") High-speed mode: Approx. 1,000 prints/hr. Standard mode: Approx. 680 prints/hr.
Paper processor module	
Paper magazine	Max. width 127mm(5"), max. length 175m: 2 units
Back printer	Max. width 315mm(12.4"), max. length 175m: 1 unit Can print 2 lines of 80 characters each
Development method	Roller transport method
Processing speed	Approx. 1,800mm/min.
Processing chemicals	Konica ESOJET HQA-P (P1 to P3) All-in-One cartridge
Processing time	P1 to P3: 42 sec. (Dry-to-Dry 1 min. 19 sec.) P1:17.6sec., P2:18.9sec., P3:15.5sec., Dry:27.0sec.
Processing tank method	P1, P2: 5lit method processing rack P3: 12-step cascade processing rack
Processing tank capacity	P1: 6L, P2: 6L, P3: 3L * P3 solution stock tank
Water replenishment method	Separate replenishment by bellows pump (water tank capacity: 7L)
Overflow tank	2 tanks (volume: approx. 6L X 2)
Order sorter	Max. 8 orders
Operating environment	Temperature: 10°C to 30°C Humidity: 30% to 80%
Cold weather adjustment	Automatic temperature adjustment when temperature falls below 20°C during timer operation

● Standard equipment ○ Option

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