Aspect Quadra

Specification Guide Quadra RF-640 Film Systems

High Production Film Output Systems





The Aspect Quadra RF-640 film output system uses one modular 8 channel head featuring the most accurate droplet placement of all inkjet printers to date. Quadra RF-640 systems are capable of print widths up to 63.6" (1615mm) See the inside for details.

A new automated cartridge monitor system allows for on the fly cartridge switching with no interruptions in production . The Quadra RF features excellent transport and registration accuracy while offering zero cost of ownership for the first two years and warranty extensions out to 5 years. Most importantly, Aspect Quadra Support stands behind every system 100%.

Ask your MacDermid Alkemi Distributor for more information on pricing, availability, and options.



Quadra RF Detail

Aspect Quadra RF Printer Speed Matrix						
Model	720 dpi Bi-directional 1082 Head Speed line work Mode	720 dpi Uni-directional 1082 Head Speed To 45 lpi Screen	1080 dpi Bi-directional 800 Head Speed To 65 lpi Screen	1080 dpi Uni-directional 500 Head Speed To 75 lpi Screen	1440 x 1440 dpi Uni-directional 500 Head Speed To 120 lpi Screen	
Quadra RF-640	53 ft² / hour	30 ft² / hour	40 ft² / hour	25 ft² / hour	14 ft² / hour	

Key Features of the NEW Quadra RF

What are the new Quadra RF features?

1. The Quadra RF Series printers feature a single new modular eight-channel printhead vs 4 two-channel heads in the previous models. The new head produces highly accurate droplet placement for precision dot rendering and range up to 120 line screen.

2. A redesigned ink feed system with selective activation of ink cartridges allows operator to switch out empty cartidges while printing continues. Automatic switching occurs when cartridge reaches empty indication

3. RF printers are CMYK and use 8 ink cartridges instead of 4 (cmyk x 2). Two 440 ml Quadra-K ink cartridges feed the black channels in the printhead. Economical 440 ml Quadra Clear-Blue cartridges are installed in the 6 color slots if black only output is desired.

4. The rear loading precision-molded media carriage is easy to load and enables better alignment and straight tracking through the entire roll length with less friction.

MacDermid Alkemi exclusive Quadra RE options

5. New output configurations take advantage of the new modular head and highly accurate droplet placement to produce higher halftone line counts than previous models.

6. The included takeup mechanism uses a low-tension guide bar for consistent winding on the takeup. This eliminates skewing and improves length accuracy.

7. For negative production or high volume users, 440 ml Quadra-K cartridges provide economical ink delivery. Bulk ink systems are also available. Ask for details.

My textile work is small format. Is there a narrower RF format printer?

The RF printer is available in only one width, 64". However, film widths range from 16.5" to 65.75" so that film size can be matched to the job. Output speed is optimized by using wide format film and tiling images across the film instead of down the length. Textile customers typically run 2 to 4 positives tiled across the film width for very fast output.

What kinds of speeds can I realistically expect?

Production speeds depend on hardware and RIP software settings. The Aspect Quadra Printer Speed Matrix is a good starting point for estimating production speeds. Maximum production speeds are achieved by matching resolution, transport, and head travel speeds to the quality requirements of specific jobs. Linework or spot colors, for instance, can be output at up to 83 ft²/hr.

Is the warranty and support the same for new printers?

Yes. Quadra RF printers include a one year limited warranty provided approved media and inks are used in the printers. (Quadra-K is RolandDGA approved). All printer parts and labor are covered for one year. The Quadra system workstation components are covered by a replacement warranty for the first year.

Is the system scalable for future growth?

Yes. The Wasatch Quadra RIP can drive up to 4 Quadra printers simultaneously for extreme output capability.

Quadra RF-640 Systems Specification

Quadra RF Systems printer specifications				
	Quadra RF-640			
Max. printing width (Quadra film)	61.7" - 1568 mm (62" film) 63.6" - 1615mm (65.75" film)			
Media width range	Quadra media: 16.5" to 65.75"			
UV density (film positive image)	U.V. d-max using Aspect Quadra film and Quadra-K black ink: 3.5 - 4.0			
Ink cartridges	Color: Dye-based. Four Colors: (C, M, Y, Quadra-K) x2 or Quadra Clear (6) and Quadra-K (2)			
Ink cartridge capacity	Quadra-K, 220ml or 440ml			
Printing resolution	Maximum 1440 dpi			
Halftone output	<u>720 dpi:</u> 35 lpi to 55 lpi; <u>1080 dpi:</u> 55 lpi to 85 lpi; <u>1440 dpi:</u> 65 lpi to 120 lpi			
Production output	<u>720 dpi:</u> LW = 53 ft ² hr; <u>1080 dpi:</u> = 40 ft ² hr; <u>1440 x 1440 dpi:</u> = 14 ft ² hr; (uni-dir mode)			
Distance accuracy	Error of less than $\pm 0.015\%$ of distance traveled (\pm .3mm @ 8 ft.)			
Interface	Ethernet (10BASE-T/100 Base-TX, automatic switching)			
Power saving function	Automatic sleep feature			
Power supply voltage and frequency	AC 117 V \pm 10%, 50/60 Hz or AC 220 to 240 \pm 10%, 50/61 Hz / 7.8 A (100-120V) 4 A (220-240v)			
Power consumption	Printing mode: approx. 1030 Watts Standby mode: approx. 14 Watts			
Acoustic noise level	Printing mode: 63 dB (A) or less (according to ISO 7779) <u>Standby mode:</u> 44 dB (A) or less (according to ISO 7779)			
Dimensions	101.4" (W) x 27.8" (D) x 46.3" (H)			
Weight (w/stand)	298 lbs. (135 kg)			
Environment	<u>Power on:</u> Temp. 59° to 90° F (15-32°C) Humidity 35% to 80 % (non-condensing) <u>Power off:</u> Temp. 41° to 104° F, (5-40°C) Humidity 20% to 80% (non-condensing)			

Alkemi Quadra RF System part numbers				
Part Number	Description			
XA29762	Quadra RF-640 64" System Black and Clear ink with RIP, monitor, software, film, and film takeup.			
XA29546	Quadra RF-640 64" printer with takeup.			
XA20183	Quadra CPU - Quad Core I-7 processor, 1 TB HD, 8 GB DDR3, dual ethernet, Windows 7 PRO, 64 bit			
XA20278	21" Color LCD Monitor			
XA26521	Quadra version Wasatch RIP for Roland - includes linearized output sets and precision screening			
XA20029	Quadra LFE - drives all large format printers plus masking feature for flexo plates			

Quadra-RF 640 for Large Format Work

The Quadra RF 640 system includes everything you need to output large format films and simulated color proofs up to 63.6" (1615mm) wide. The heart of the system is the Roland Versa Express RF-640 high performance piezo head inkjet printer. Configured with dye-based ink, Quadra produces high-quality separation film positives, film negatives, and color halftone simulated proofs of your prepress art files.

The Quadra RF-640 has the speed for large and midsize format process color work such as POP posters and displays, banners, billboards, signage, while still offering print modes for smaller, highly detailed, high line count screening.

System Components

Quadra hardware, film, ink, and software are designed to work together as a system for the best sharpness, density, reliability, and ROI.

- Roland RF-640 64" cmyk inkjet printer with dye-based ink. Maximum print widths of up to 63.6" (65.75" film).
- Wasatch SoftRIP SP Quadra Edition with precision rosette screens and special print drivers.
- Aspect HP Workstation, Quad Core I-7 processor, 1 TB HD, 8 GB DDR3, dual gigabit ethernet, Windows 7 PRO, 64 bit.
- 21" LED monitor.
- Mac and PC print serving and browser link on Imagenet.
- Quadra linearizations for 35 line to 120 line for halftone screens as well as hybrid screening.
- Color profiles for simulated halftone color proofing.
- One roll Aspect Quadra 36" x 100ft. instant dry, waterproof, high-density film.
- Aspect Quadra-K high-density black dye ink 440ml. cartridges (2).
- One set of Quadra Clear-Blue ink cartridges (6). Color ink optional. (C, M, Y x2)
- · Automatic low-tension takeup reel is included for extended or unattended operation.
- "Maximum Uptime" guarantee for Quadra film users: -- One year warranty on front end components
 - -- One year warranty on all Roland RE printers



New generation DX-7 printhead for more accurate droplet placement





Precision media mounting for highly accurate transport and registration.

Automatic motorized takeup is included.

Key Features

- Produces high quality positive or negative films and simulated 4 color proofs using the same dots, screen ruling and angles as the films. Color proofing offers support for direct-to-screen devices needing proofs.
- Images screen rulings of up to 120 lpi at 1440 dpi with rapid output of linework or screens to 55 lpi at 720 dpi.
- Uni-directional and bi-directional modes and full control of head speed provide output speeds ranging from 26 to 83 square feet per hour.
- This is an all-inclusive system with front end hardware and software, printer, ink, media startup kit.
- The speed of the system can be tailored to match jobspecific dpi and guality requirements for maximum productivity. Vertical ink system eliminates ink starvation.
- Scalable system for future growth, supports up to 4 printers.



By MacDermid Graphics Solutio

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