2015 Specification Guide
Quadra RF-640 Film Systems

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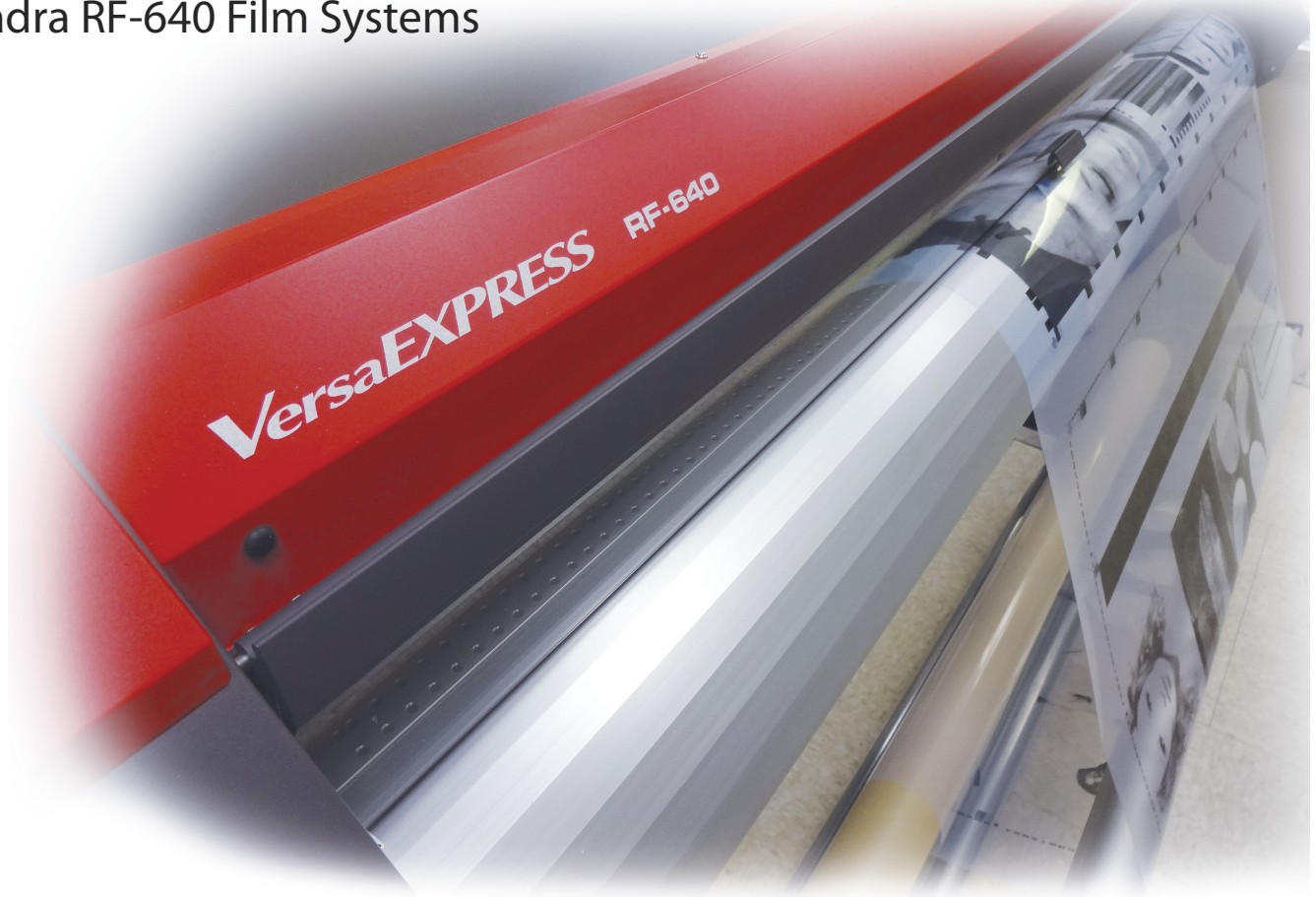
The Aspect Quadra RF-640 film output system uses one modular 8 channel head featuring the most accurate droplet placement of all inkjet printers to date. Quadra RF-640 systems are capable of print widths up to 63.6" (1615mm) See the inside for details.

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%.

Quadra RF Systems include 2 days training and installation. Ask your MacDermid Autotype Distributor for more information on pricing, availability, and options.

Contact MacDermid Autotype in Rolling Meadows Illinois at 800-323-0632 xt2 and ask for Quadra Technical Sales Support.

MacDermid
Autotype
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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 ft^2 / hour	30 ft^2 / hour	40 ft^2 / hour	25 ft^2 / hour	14 ft^2 / 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 cartridges 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 Autotype 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 ft^2/hr.

Is the warranty and support the same for new printers?

Yes. Quadra RF printers include a two 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 two years. The Quadra system workstation components are covered by a replacement warranty for the first year. Phone support and repair labor are no charge for Quadra film customers. Preventative maintenance visits are available for a minimal travel fee with no labor charges. Emergency service is available for a minimal travel fee depending on location.

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	720 dpi: 35 lpi to 55 lpi; 1080 dpi: 55 lpi to 85 lpi; 1440 dpi: 65 lpi to 120 lpi
Production output	720 dpi: LW = 53 ft^2 hr; 1080 dpi: = 40 ft^2 hr; 1440 x 1440 dpi: = 14 ft^2 hr; (uni-dir mode)
Distance accuracy	Error of less than ±0.015% of distance traveled (± .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 ± 10%, 50/60 Hz or AC 220 to 240 ± 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) Standby mode: 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	Power on: Temp. 59º to 90° F (15-32℃) Humidity 35% to 80 % (non-condensing) Power off: Temp. 41º to 104º F, (5-40℃) Humidity 20% to 80% (non-condensing)

Autotype 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 most important feature of Quadra systems is Aspect Support.

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.

MacDermid Autotype provides unlimited free access to the Aspect phone support team with full warranty of all front end components for one year and full coverage on the printer for two years. Extended warranty plans are offered through year 5 of ownership. Two days installation and on-site training are standard and optional preventive maintenance plans are also available. MacDermid is the experience leader with over 400 systems installed.

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)

- Installation and on-site training (2 days).

- 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
    - -- Two year warranty on all Roland RE printers
    - -- No repair costs for 2 years
    - -- Optional Maintenance Plans available

- No-charge Aspect phone support.

- Three levels of extended warranty after year two.
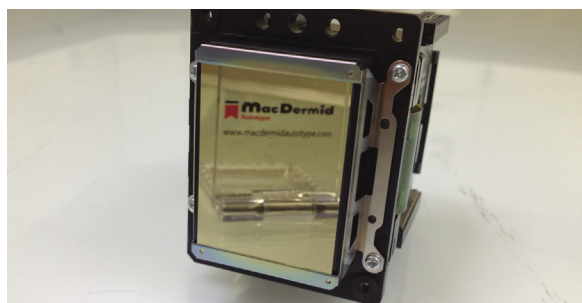
New generation DX-7 printhead for more accurate droplet placement

Precision media mounting for highly accurate transport and registration.
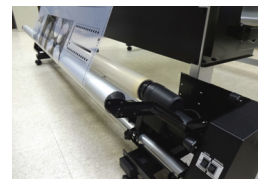
Automatic motorized takeup is included.

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, installation, training, and full technical support.

- The speed of the system can be tailored to match job-specific dpi and quality requirements for maximum productivity. Vertical ink system eliminates ink starvation.

- Scalable system for future growth, supports up to 4 printers.

MacDermid Autotype
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