

 Roland

# Hi-Fi JET PRO II

High Fidelity inkjet printer by Roland DG Corporation

*Model*  
**FJ-540**





# Unsurpassed Performance Prints up to 28m<sup>2</sup>/hr (300 sqft/hr)

Introducing the Hi-Fi JET PRO II high-performance, large format inkjet printer from Roland. With more features than ever and less time waiting for prints.

- Prints up to 28 m<sup>2</sup>/hr (300 sqft/hr)
- True 1440 X 1440 dpi resolution
- Variable droplet technology
- 6-color printing — CMYK+LcLm or CMYK+OrGr
- Revolutionary new Roland software RIP included
- Ethernet connectivity

## Shift into Top Gear

### Blazing Print Speed

Ever feel like you've been waiting all day for a print? Not with the Hi-Fi JET PRO II. It can print up to 28 m<sup>2</sup>/hr (300 sqft/hr). That's not draft mode; that's a unique, sign-quality mode created by Roland especially for sign, exhibit and POP makers! Printing a large 1.3 x 5 m banner now takes only 14 minutes. But blazing print speed is only part of the story. The PRO II's remarkable production velocity is the result of numerous technological enhancements.

#### Throughput comparison

Media	Mode	Printing Time
Synthetic matte paper (YP-M-1300)	High Speed	28 m <sup>2</sup> /hr (300 sqft/hr)
	Standard	14 m <sup>2</sup> /hr (150 sqft/hr)
	High Quality	6.7 m <sup>2</sup> /hr (72 sqft/hr)
Hi gloss white film (PET-G-1320)	High Speed	14 m <sup>2</sup> /hr (150 sqft/hr)
	Standard	6.7 m <sup>2</sup> /hr (72 sqft/hr)
	High Quality	3.4 m <sup>2</sup> /hr (36 sqft/hr)

### New Wider Heads--360 Nozzles per Color

Six one-inch precision heads cover a large printing area while firing 360 nozzles per color.

### High-Speed Data Processing and Transfer

Hi-Fi JET PRO II supports Ethernet 100Base-TX networks for high-speed data transfer and workgroup operation. Included with the Hi-Fi JET PRO II, the new, more powerful Roland software RIP has been designed especially for the PRO II family.\*<sup>1)</sup> The RIP engine incorporates more horsepower and efficiency for faster data processing. The RIP also provides more powerful simultaneous RIP&Print capabilities to speed up your daily operation.



\*1) The software RIP is compatible with Windows® 2000/XP as a network server or stand-alone, and Windows® 98/Me/2000/XP as network client.

## Unsurpassed Print Quality

### True 1440 x 1440 dpi Resolution

The Hi-Fi JET PRO II combines Piezo print heads, accurately providing precise droplets and variable droplet technology to achieve stunning color reproduction. The crisp detail and high fidelity of the Hi-Fi JET PRO II's true 1440 x 1440 dpi resolution make it ideal for enlargements of fine art, photography, or mural-size graphics. Downy soft hairs, finely textured human skin -- these are but a sample of the Hi-Fi JET PRO II's amazing ability to reproduce photographic quality.



### Variable Droplet Control: For Infinite Possibilities

Variable droplet technology utilizes micro-precise ink droplets of three different sizes depending on the type of output. This state-of-

the-art technology delivers truly breathtaking output with beautifully smooth and dot-free tones even at high speed. In combination with the RIP, variable droplet technology delivers truly uncompromising quality for the most discerning applications.



### IntelligentPrintControl: A New Standard in Inkjet Quality and Ease of Use

Included in the RIP, IntelligentPrintControl delivers a major advance in printing quality combined with unbelievable ease-of-use. All you need to do is select the media, preferred print quality and speed from the menu. IntelligentPrintControl automatically determines the optimum dot size, dot combinations, dot placement, tone curve, and the proper amount of ink for each individual media.

## Unsurpassed Color Reproduction

### Precise Color Management

Designed to maximize performance of the Hi-Fi JET PRO II, the RIP provides professional quality printing including precision color management. The RIP is PostScript™ compatible, making the Hi-Fi JET PRO II easy to use with Adobe® Photoshop®, Adobe® Illustrator®, Macromedia FreeHand®, QuarkXPress® and other popular graphics software.

### Two 6-Color Printing: Choose from LcLm and OrGr\*<sup>2)</sup>

The Hi-Fi JET PRO II offers a choice of 6-color printing. CMYK plus light cyan (Lc) and light magenta (Lm) is ideal for faithfully reproducing skin tones, soft pastels and metallic surfaces with superb, natural color gradations. CMYK plus orange (Or) and green (Gr) delivers unrivaled color gamut and the ability to match spot colors with confidence. The Hi-Fi JET PRO II uses two 220 cc ink cartridges per color.

\*<sup>2)</sup> LcLm and OrGr inks cannot be used simultaneously.



### Pigment and Dye\*<sup>3)</sup>

Another key to the stunning color produced by the PRO II is our Roland pigment ink which offers a combination of exceptionally bright color as well as UV stability. It ensures that your posters and signs maintain their beauty longer, even outdoors\*<sup>4)</sup>. For vivid printing of short-term indoor signs and banners, Roland also offers dye ink\*<sup>5)</sup>.

\*<sup>3)</sup> Pigmented and dye-based inks cannot be used simultaneously.

\*<sup>4)</sup> Lamination is required to protect output from abrasion, acid rain or other harsh environmental conditions.

\*<sup>5)</sup> Dye-based ink is available in CMYK plus LcLm only.



### Roland Media -- Maximum Performance with Maximum Choices

Media selection is key to the usefulness of any printer. Roland offers a wide range of Roland-certified media: fine art papers and artist canvas, backlit film, PET film, matte and gloss papers, Tyvek®, banner, adhesive-backed vinyl, Polysilk cloth and more. Every one has been optimized for the print speeds and capabilities of the Hi-Fi JET PRO II, taking full advantage of the superior performance of our pigmented and dye-based ink.

## Unsurpassed Ease of Use & Reliability

### Enhanced Features to Simplify Operation

Roland products have always been known as easy to operate and reliable. The Hi-Fi JET PRO II offers users an ideal combination of automation and user-selectable controls.

- Adjustable 3-level head height for handling a wide variety of media from artist canvas to film.
- Easy-to-replace, clean-handling ink cartridges.
- Printer warns and pauses a job when ink is running low -- no partial print waste.
- Translucent cover to observe printing in progress.
- Windows on the media flanges to confirm remaining media.
- Auto-sheet cutter for separating output after printing.



Easy-to-use ink cartridges

### Mechanical Improvements for Even Greater Reliability

Roland has integrated all our technical experience and know-how into every single component of the Hi-Fi JET PRO II.

- The heavy-duty carriage and newly developed linear motion guide provide smoother movement even at high speed.
- A wider bed and built-in media edge clamps improve media tracking.
- An encoder attached directly to the grit roller shaft and a digital servomotor provide more precise media feeding resulting in superior image sharpness from exact dot placement.
- Improvements to the head cleaning system promote longer life with less contamination.



Built-in media edge clamps



PRO II head cleaning system

## Specifications

Model		FJ-540
Printing method		Piezo ink-jet method
Printing width		210 to 1361 mm (8-5/16 to 53-9/16 in.)
Acceptable media widths		210 to 1371 mm (8-5/16 to 54 in.)
Conditions for usable media		Maximum media thickness: 1.0 mm (0.039 in.) Maximum diameter for roll media: 180 mm (7-1/16 in.) Core inner diameter for roll media: 50.8 mm (2 in.) or 76.2 mm (3 in.) Maximum weight for roll media: 20 kg (44.1 lb.)
Ink cartridges	Pigmented ink	Exclusive pigmented ink cartridges
	Capacity	220 cc ± 5 cc
	Colors	The six colors black, cyan, magenta, yellow, light cyan, and light magenta or the six colors black, cyan, magenta, yellow, orange, and green
	Dye-based ink	Exclusive dye-based ink cartridges
	Capacity	220 cc ± 5 cc
	Colors	The six colors black, cyan, magenta, yellow, light cyan, and light magenta
Printing resolution		Max. 1440 dpi
Distance accuracy		Error of less than ±0.3 % of distance traveled, or 0.3 mm, whichever is greater (at Roland PET-film, print travel: 1 m (39-3/8 in.))
Printing heads cleaning		Automatic cleaning and manual cleaning
Interface		Ethernet 10Base-T or 100Base-TX and Bidirectional parallel interface (compliant with IEEE 1284: Nibble mode, ECP mode (non compression))
Power-saving function		Auto-sleep
Power consumption	Printing mode	Maximum: 2.0 A/100 V to 240 V ±10 % 50/60 Hz
	Standby mode	Maximum: 0.6 A/100 V to 240 V ±10 % 50/60 Hz
Acoustic noise level	Printing mode	65 dB (A) or less (According to ISO7779)
	Standby mode	40 dB (A) or less (According to ISO7779)
Dimensions (with stand)		2699 mm [W] x 742 mm [D] x 1300 mm [H] (106-5/16 in. [W] x 29-1/4 in. [D] x 51-3/16 in. [H])
Weight (with stand)		146 kg (321.8 lb.)
Environment	Power on	Temperature: 15 to 32 °C (59 to 89.6 °F), Humidity: 35 to 80 % (non-condensing)
	Power off	Temperature: 5 to 40 °C (41 to 104 °F), Humidity: 20 to 80 % (non-condensing)
Included items		Roland software RIP CD-ROM: 1, Roland-PrintServer CD-ROM: 1, power cord : 1, drain bottle: 1, replacement blade for separating knife: 1, cleaning kit: 1, user's manual: 1, Roland PrintServer network settings guide: 1

## Options

Pigmented ink	FPG-MG	Magenta, 220 cc
	FPG-YE	Yellow, 220 cc
	FPG-CY	Cyan, 220 cc
	FPG-BK	Black, 220 cc
	FPG-LC	Light cyan, 220 cc
	FPG-LM	Light magenta, 220 cc
	FPG-OR	Orange, 220 cc
	FPG-GR	Green, 220 cc
Dye-based ink	FDY-MG	Magenta, 220 cc
	FDY-YE	Yellow, 220 cc
	FDY-CY	Cyan, 220 cc
	FDY-BK	Black, 220 cc
	FDY-LC	Light cyan, 220 cc
	FDY-LM	Light magenta, 220 cc
Cleaning liquid	CJ-CL	1 pc.

Optional Take-up Roller automatically rolls up media for unattended overnight or oversize output.

Take-up Roller  
**TU-550** for FJ-540

FJ-540+TU-550



Roland reserves the right to make changes in specifications, materials or accessories without notice. Your actual output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland dealer for details. No guarantee or warranty is implied other than expressly stated. Roland shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products.

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