Wide Format Color Digital Imaging System
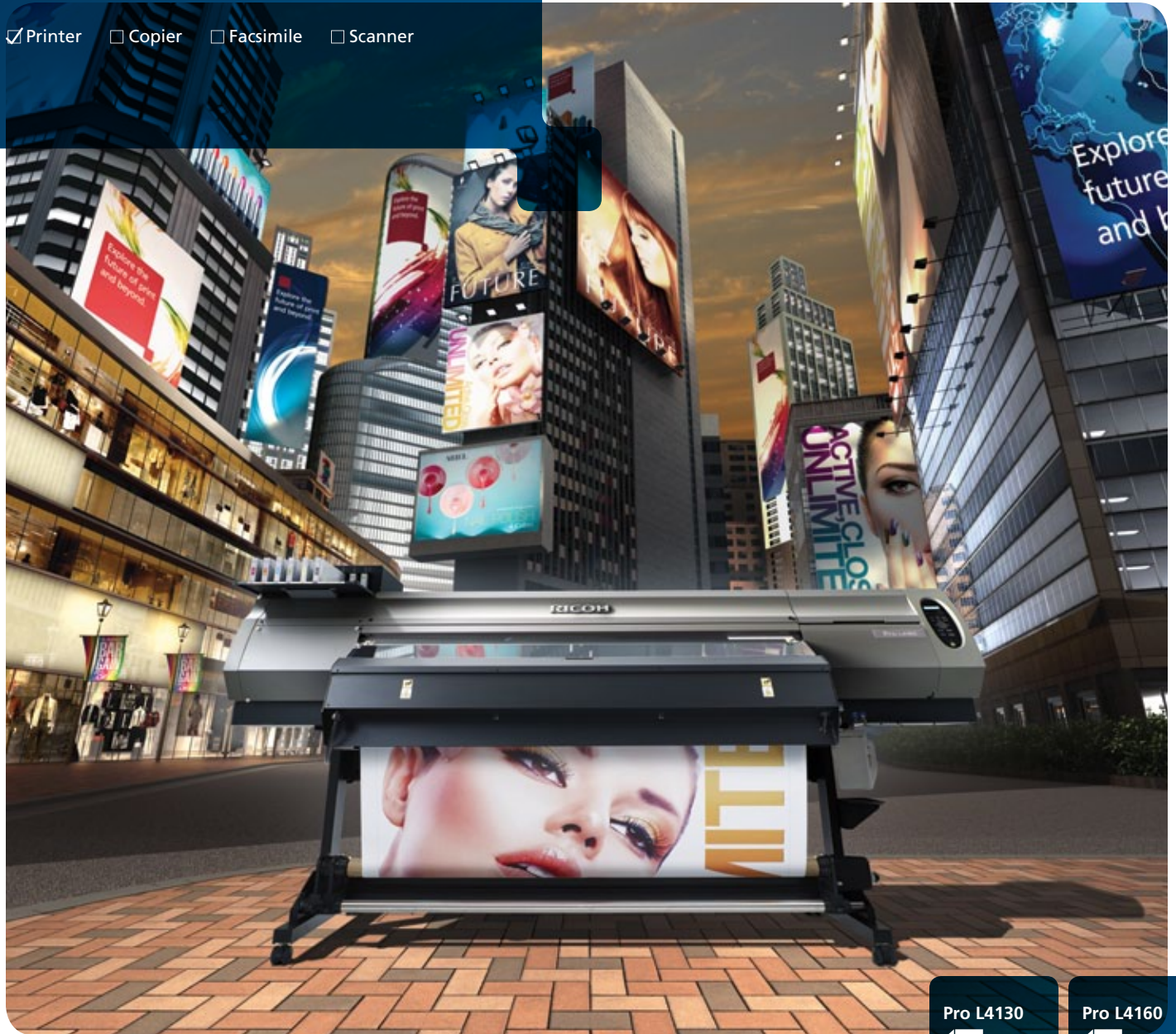
RICOH
Pro L4130/L4160

☑ Printer ☐ Copier ☐ Facsimile ☐ Scanner

RICOH
imagine. change.

Pro L4130

184 up to sq. ft/hr   full color

Pro L4160

195 up to sq. ft/hr   full color

Exceptional wide-format color — inside and out

The RICOH® Pro L4130/L4160 wide format color printer produces brilliant signs, banners, wallcoverings, wraps and more for indoor or outdoor advertising and point-of-sale displays. Your customers will notice how crisp and vivid your graphics look. You'll notice how easy they were to make. It uses eco-friendly, aqueous latex ink and up to a six-color process printing, including orange and green, plus white, for a much wider color gamut. Vibrant pastels and accurate spot colors for corporate logos are the results, enabling you to meet a wider range of your application needs.

Innovative new ink technology on display

Don't compromise any longer. The RICOH Pro L4130/L4160 produces outstanding color that withstands the harshest elements — without being harsh on you or the environment. It intensifies black ink density and enhances gloss for bolder, more compelling graphics. The ink can also be used on an array of substrates, including plastic, vinyl, clear film, backlit materials and more. Plus, the ink requires only a 140°F (60°C) cold cure, so it easily handles a wide range of heat-sensitive media.

More colors, including white, for more impact

The RICOH Pro L4130/L4160 can produce six-color process printing — adding orange and green to the standard 4-color (CMYK) setup: you have more color options and increased color gamut for producing exceptional, color reproductions on any surface. In addition, with that configuration, white ink enables you to use it as a base color and create fresh images that pop on clear substrates, too.

Produce signs quickly

Exceptional graphics only work if the right audience is there to see them. That's why you need to be able to produce signs quickly and reach audiences at the right time. The RICOH Pro L4130/L4160 was designed for efficency and fast throughput. With eight ink cartridges, you can choose almost any configuration at the time of installation. Plus, when set up in 4-color mode, two ink cartridges are designated for each color, so your print job won't stop, even when the first cartridge is out of ink. You won't have to wait long for it to dry either. An array of heaters on the platen maintains proper temperatures during pre-printing, printing and the drying process to ensure that any additional finishing can begin immediately.
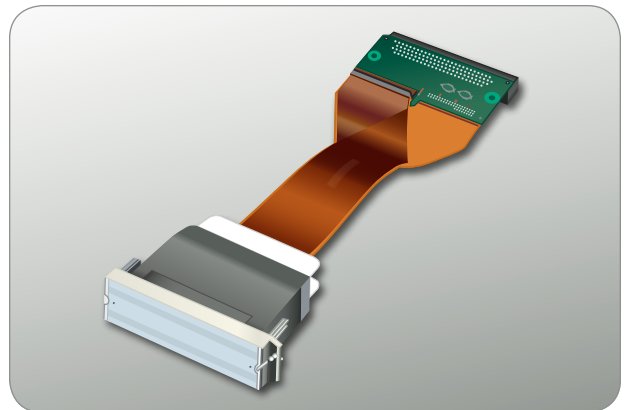
Good for business, great for you

Drive print performance the easy way

The RICOH Pro L4130/L4160 uses the powerful Ricoh Software RIP designed specifically to simplify printing graphics-rich output. The intuitive, icon-based interface lets you seamlessly check settings and progress from the main screen. You can even set thousands of "favorites" and quickly reuse settings you've used previously. Three-layer prints enable you to print on more types of material, including transparent material and window clings. The driver can perform layout imposition of several jobs to reduce media waste, and run test prints, improving both the quality and efficiency of your operation.

Print heads in a new direction

With innovative high-speed print heads, the RICOH Pro L4130/L4160 delivers high-quality output time after time. Each of the two Piezo print heads are configured with 1,280 nozzles per head to ensure the outstanding results, as a precise drop is dispensed at the exact location — every time. Additionally, with multi-jetting, three drops of various sizes are applied simultaneously to accommodate varying media and/or density requirements.

Easy to set up and environmentally friendly

The RICOH Pro L4130/L4160 uses aqueous durable latex ink to produce exceptional wide format color. Solvent-based printers, typically using inks with high volatile organic compounds (VOCs), can be difficult to install because they require costly ventilation and air discharge systems. Our innovative printer can be used almost anywhere. Plus, you don't have to change the entire ink cartridge when it runs low. Simply replace the ink pack to reduce waste and cost. And because it uses standard 110V outlets, power costs are low.

General Specifications

Printing Process		On demand Piezo inkjet system (RICOH GEN5 two head in line)
Ink Type		Latex ink
Resolution		900dpi, 1200dpi
Drawing Mode (scan x feed)	4 colors	900 x 900: Bi/Uni 6/12/24 pass
		900 x 1200: Bi/Uni 8/16/32 pass
		1200 x 900: Bi/Uni 6/12/24 pass
		1200 x 120: Bi/Uni 8/16/32 pass
	6 colors	900 x 900: Bi/Uni 12/24/48 pass
	6 colors + white	900 x 1200: Bi/Uni 16/32/64 pass
		1200 x 900: Bi/Uni 12/24/48 pass
		1200 x 1200: Bi/Uni 16/32/64 pass
Usable Ink		CMYK, Or, Gr, W
Ink Configuration		4 colors: CMYK
		6 colors: CMYK, Or, Gr
		6 colors and white: CMYK, Or, Gr,+ W
Capacity of Ink Cartridge		4 colors: CMYK
		– 600ml two cartridges for each color
		6 colors: CMYK, Or, Gr
		– 600ml one cartridge for Y, K, Or, Gr
		– 600ml two cartridges for C & M
		6 colors and white: CMYK, Or, Gr,+ W
		– 600ml one cartridge for CMYK, Or, Gr
		– 220ml two cartridges for white
Media Type		Thin coated paper/PET/tarpaulin/ weatherproof PVC/window film/ polyester cloth/cotton/duratrans
Printing Width (max)		L4130: 53.6" (1,361mm)
		L4160: 63.4" (1,610mm)
Printing Surface		Side facing outward
Roll Media	Media feed width	L4130: 54" (1,371mm) maximum
		L4160: 63.8" (1,620mm) maximum
		L4130/L4160: 8.27" (210mm) minimum
	Thickness	0.011" (0.3mm) or less
	Outside diameter	Maximum 7" (180mm) or less
	Inside diameter	2" or 3"
	Media weight	Maximum 55.1 lbs. (25 kg) or less
	Take-up roll Media diameter	7.5" (190mm) or less
Cut Sheet Media	Media feed width	L4130: 54" (1,371mm) maximum
		L4160: 63.8" (1,620mm) maximum
		L4130/L4160: 8.27" (210mm) minimum
	Thickness	0.0079" (0.2mm) or less
Print Margin	Roll media	Left and right end: 0.59" (15mm) (default)
		Front: 5.9" (150mm)
		Rear: 0mm
	Leaf media	Left and right end: 0.59" (15mm) (default)
		Front: 5.9" (150mm)
		Rear: 7.87" (200mm)
Distance Accuracy	Absolute	The greater of +/- 0.011" (0.3mm) or +/- 0.3% of the distance
	Reproducibility	The greater of +/- 0.0079" (0.2mm) or +/- 0.1% of the distance
Perpendicularity		+/- 0.019" (0.5mm) /36" (1,000mm)
Media Skew		0.19" (5.0mm) or less /32.8' (10 meter) variable
Head Height Adjust		L range: 0.07" (1.8mm)
		M range: 0.09" (2.3mm)
		H range: 0.11" (2.8mm)
Cutting	Direction	Cutting of Y direction by the head cutter
	Accuracy	0.039" (1.0mm) or less (steps)
Waste Ink Tank		Bottle type 2000 cc
Interface		USB 2.0, Ethernet (for maintenance only)
Power Source		100-120V, 50-60Hz, 220-240V 50-60Hz, 15A or less x 2 lines
Power Consumption (max)		Less than 1440W x 2 (100-120V), 1800W x 2 (200-240V)
Dimension (W x D x H)		L4130: 103.5" x 33.7" x 56.4" (2,634 x 854 x 1435mm)
		L4160: 113.2" x 33.7" x 56.4" (2,879 x 854 x 1,435mm)
Weight		L4130: Less than 447 lbs. (203 kg)
		L4160: Less than 529 lbs. (240 kg)

Operation Panel	Hard keys and LCD
	LCD: 20 characters 2 lines
	Displayed languages: Japanese, English, German, French, Italian, Spanish, Portuguese

Print Speed:

L4160

Full Color		4C		6C/6C+W	
		F²/hr	M²/hr	F²/hr	M²/hr
Draft	1200 x 900, ND, 6P, Bi	195.9	18.2	97.9	9.1
High Speed	1200 x 1200, ND, 8P, Bi	148.5	13.8	75.3	7.0
Standard	900 x 900, VD, 12P, Bi, Hi	118.4	11.0	60.2	5.6
High Quality	1200 x 1200, VD, 16P, Bi, Hi	71.0	6.6	35.5	3.3

White		Single Layer W		2 Layers 6C+W		3 Layers 6C+W+6C	
				Drying Level 2		Drying Level 1	
		F²/hr	M²/hr	F²/hr	M²/hr	F²/hr	M²/hr
Standard	900 x 900, VD, 24P, Uni, Hi	31.2	2.9	10.7	1.0	10.7	1.0
High Quality	1200 x 1200, VD, 32P, Uni, Hi	20.4	1.9	6.4	0.6	6.4	0.6

L4130

Full Color		4C		6C/6C+W	
		F²/hr	M²/hr	F²/hr	M²/hr
Draft	1200 x 900, ND, 6P, Bi	184.0	17.1	93.6	8.7
High Speed	1200 x 1200, ND, 8P, Bi	139.9	13.0	71.0	6.6
Standard	900 x 900, VD, 12P, Bi, Hi	110.8	10.3	54.8	5.1
High Quality	1200 x 1200, VD, 16P, Bi, Hi	67.8	6.3	34.4	3.2

White		Single Layer W		2 Layers 6C+W		3 Layers 6C+W+6C	
				Drying Level 2		Drying Level 1	
		F²/hr	M²/hr	F²/hr	M²/hr	F²/hr	M²/hr
Standard	900 x 900, VD, 24P, Uni, Hi	29.0	2.7	9.6	0.9	9.6	0.9
High Quality	1200 x 1200, VD, 32P, Uni, Hi	19.3	1.8	6.4	0.6	6.4	0.6

Ricoh Software RIP

Required Environment	Printer Driver Installed PC OS	Windows Vista SP2 or later (32/64 bit), Windows 7 Professional, Ultimate, Enterprise (32/64 bit), Windows 8 Pro Enterprise XP Professional Edition (32 bit) SP3~, XP Home Edition (32 bit) SP3~ CPU: Intel Core i3 3.10GHz or more Chip set: Intel chip set Memory: 3GB or more (32 bit), 6GB or more (64 bit) HDD: 500GB recommended (NTFS format) Interface: Ethernet, USB 1.1/2.0
	Client PC OS	Windows XP SP3 or later (32 bit), Windows Vista SP2 or later (32/64 bit), Windows 7 Professional, Ultimate, Enterprise (32/64 bit), Windows 8 Pro Enterprise, Mac OSX 10.3.3 – 10.7
	Supported OS language	Japanese, English, Italian, Greek, Spanish, Czech, German, French, Polish, Portuguese, Chinese (simplified/ traditional), Korean
	Language support	Japanese, English, Italian, Spanish, German, French, Portuguese, Chinese (simplified/traditional), Korean
Input Data	Format	EPS, PS, PDF (1.5 or later is not allowed), TIFF, JPEG, BMP
		PS Font: Standard 60 European fonts (adding fonts are not allowed)
	Application data	Adobe Illustrator 8, 9, 10, CS, CS2, CS3, CS4, CS5
		Adobe Photoshop 5, 6, 7, CS, CS2, CS3, CS4, CS5
Output Data	Max spool processable image size	Width: 428" (10,871mm) Length: 428" (10,871mm)
	Max RIP processable image size	Width: 2,362" (60 meters) Length: 3,937" (100 meters)

	Max print size	Width: 126" (3.2 meters) Length: 3,937" (100 meters)
	Max cut size	Width: 70" (1.8 meters) Length: 1,968" (50 meters)
Rendering	PS core	JAWS PS compatibility core
	PDF core	JAWS
	Color channel	4/8 channel: (CMYK + special color 2), (CMYK + special color 1-4)
	Dot Rendering	3 level resolution (LMS)
	Halftone	16 bit
Color matching	ICC	Dither, random dither
		ICC profile
		CMYK special color max 3 colors vector/raster processing, maintain true color proceeding
	Input profile	Gamut mapped profile for signage
	Gray balance	Supported
	Color adjustment	Ink limit (all or each color), torn curve adjustment, Black color adjustment
	Monitor	Reflect the result of profiled color adjustment
Color exchange	Exchange	Spot color exchange, TIFF alpha channel exchange, gradation exchange
	Target colorimetric	Adjust colorimetric data by using Colorimeter
	Color chart	Narrow the range of target color, Color Book print, registration for SWATCH
Special color print	Merged data print	Merged Job, TIFF alpha channel, automatic special color creation, three layer print
	Adjustment	Adjustment special color mapping
	Clear	Thick print, gloss/matte
	Silver	Metric color library
	White	White color library
Image edit	Editing	Rotation, mirroring, scale, trimming, move, copy
Image layout	Nesting	Supported
	Automatic nesting	Supported
	Jig layout	Supported
Cut	Cut method	Cut after printed, print after cut
	Emulation	Roland EPS data supported
Insert	Insert method	Character, image, barcode, numbering
Print	Print method	RIP & print, print after RIP, automatic
	Special print	Flat reverse print, double face print, two roll print
	Multiple print	Max 4 units
	Interface	USB 2.0, Ethernet (for maintenance only)
SG feature	Tailing	Divide the image, duplicate margin, cut line mark print, margin point stamp
Print information	RIP information	Label print, Ink usage, estimate print time
Status information	Mail	Inform print status
Manual	Installation manual	Printed manual in package of mainframe
	Network manual	CD-ROM
	Operation manual	CD-ROM
Protection		Check connected printer information

Additional third-party RIPs available

Supported by ONYX

Consumables*

Ink Pack	Cartridge Capacity
Black	600ml
Cyan	600ml
Magenta	600ml
Yellow	600ml
Orange	600ml
Green	600ml
White	220ml

*For maximum performance and yield, we recommend using genuine Ricoh parts and supplies.

Specifications are subject to change without notice.

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