

# Enlarge your business with Ricoh.

**RICOH**  
imagine. change.

The new Ricoh Pro L4100 series with aqueous durable (latex) inks.



RICOH Pro  
L4100 series

18.2  
m<sup>2</sup>/h



### **Your ideal way into large-format.**

The new Ricoh Pro L4100 series is the perfect solution when you want to complement your offering with display printing.

Hugely versatile, these printers will give you a wide variety of display material in high quality colour, thanks to the Ricoh GEN5 print heads. By using the latest patented multidrop jetting technology, these heads can create a droplet as small as four picoliters, resulting in smoother colour gradation with no need for light magenta or cyan. What's more, thanks to the addition of orange and green inks, you'll also benefit from brighter images as well as a greater colour gamut – up to 93% of the Pantone® range.

### **Durable inks for inside and out.**

The L4100 series uses eco-friendly, durable latex inks, which are suitable for indoor and outdoor use. The anti-fade qualities are good and sufficiently weatherproof to last two years in most conditions. Cartridges are reusable as well, reducing waste and saving money.

### **Print on almost anything.**

You can print on a huge variety of media such as films, textiles, vinyls and papers as well as creating POS/POP displays. You can even use the L4100 series as a label printer for short runs. A maximum output of 18m<sup>2</sup>/hr means the best productivity in its class. And there's no waiting for secondary processes either, because drying is almost instantaneous, thanks to its built-in heat unit.

### **Cleaner and safer.**

Finally, low VOCs mean no special ventilation is needed, making installation and operation of the Ricoh Pro L4100 series easier and safer.





Go large-format with the  
new Ricoh Pro L4100 series.





# Product highlights.

**Temperature control**  
Fan unit vents keep temperature constant for stable printing.



**Ink cartridge configurations**  
4-colour mode (x2 CMYK)  
6-colour mode (CMYKOrGr)  
6-colour + white mode (CMYKOrGr + x2 W)  
The green and orange enable approximately 93% of the Pantone® colour chart to be matched.  
Prints three layers in one pass.

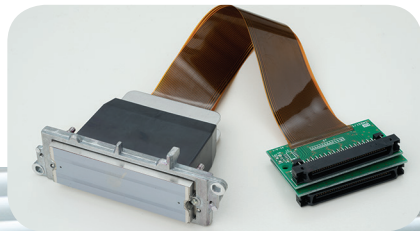


**Reusable ink cartridge**  
The ink cartridges can be used repeatedly by changing the ink packs. This eco-cartridge methodology helps to reduce waste costs.



**Media output**  
The printed media slides on to the platen where three heaters are installed. These fix and dry the printed image as it slides through. There is an electrostatic sheet to prevent sticking. This enables secondary processing, such as lamination, to take place immediately.





#### Print heads

Ricoh GEN5 high-speed piezo durable print heads produce a multiple drop size with a minimum of just four picoliters.



#### Operation panel

This intuitive and easy to operate display panel incorporates machine status display, data activity and heater indicators.

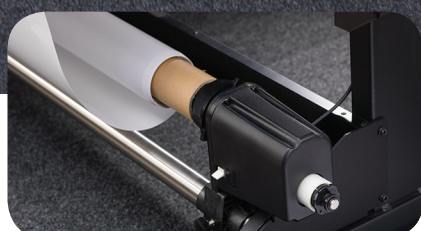


#### Cleaning solutions cartridge

For easy and regular maintenance of print heads. Situated on back of machine.

#### Roll holder / take up device

There is no need to wait for printed material to dry which means it can be rolled onto the take up device immediately after printing. The device supports a material core from 210mm to 1.6m in width with a maximum weight of 25kg and a media inner core of 66mm and outer diameter of 180mm.



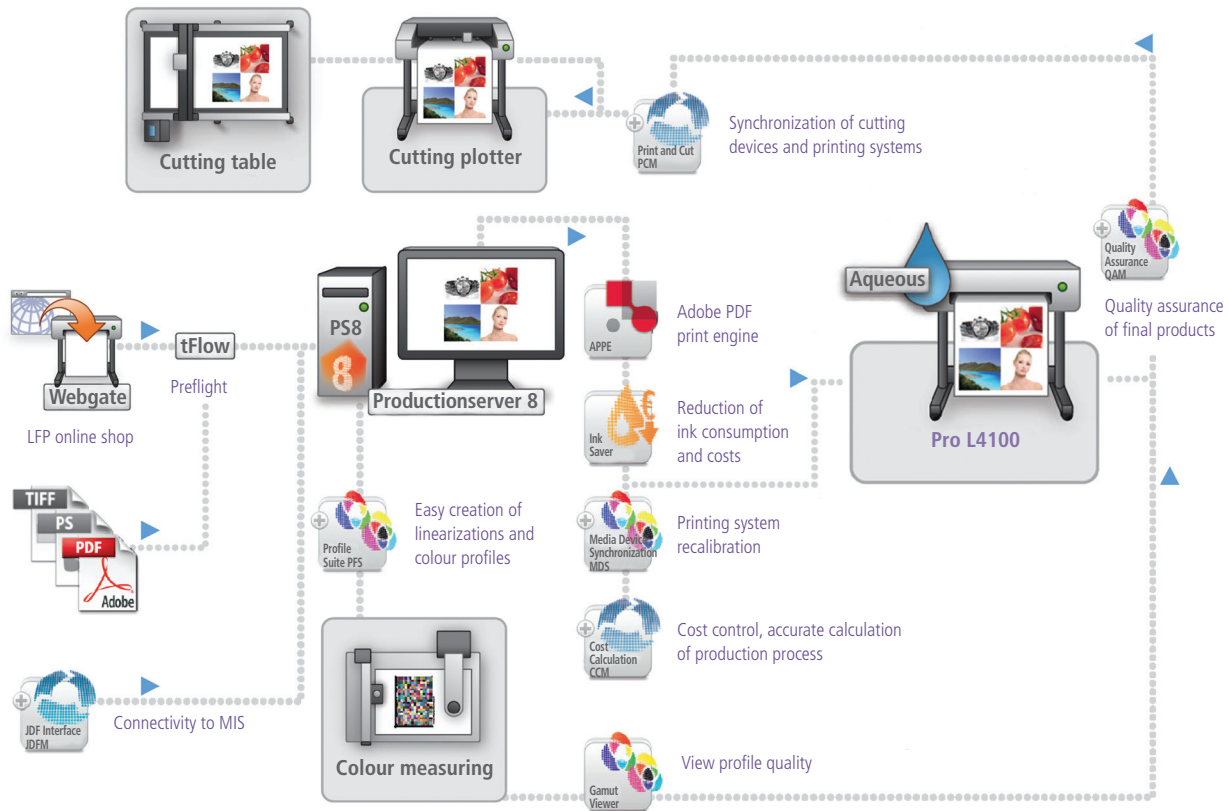
#### Waste tank

For easy and convenient disposal of ink waste.





## Production server



The L4100 series includes the option for the PS8 production server from ColorGATE, the technological leader in workflow automation for large format printing.

The server has the latest Adobe PDF print engine (APPE) which makes smooth, highly automated PDF workflow easy. You will also benefit from a user friendly interface with outstanding functionality, accurate colour management, rapid profiling, recalibration and quality control.

### Clever cost control

A useful Cost Calculator feature lets you provide precise quotes before printing and the Container function positions each job optimally to ensure minimum material usage.

There are also two clever optional extras available, too. Firstly an Ink Saver module that can cut ink use to a minimum by intelligent replacement of cyan, magenta and yellow in neutral areas with black ink. Secondly, there's the Print and Cut PCM module that lets you control cutting plotters and tables.





Outdoor display



Display graphics



Backlit display



Vehicle graphics



Labels



In-store POS display



Floor graphics



High quality prints and posters

## Applications and media.

### Outdoor advertising

Banners, billboards, building wraps, flags, outdoor banners and vehicle graphics.

*Film, tarpaulin, synthetic paper OPP, PET films, self-adhesive vinyl and textiles.*

### Indoor advertising / retail, POS and POP

Advertising posters, POP / POS, pop-up / roll-up displays and window graphics.

*Coated / uncoated paper, film, self-adhesive vinyl and textiles.*

### Exhibition and event graphics

Floor graphics, light boxes, hanging banners and display graphics.

*Paper, synthetic paper, film, self-adhesive vinyl and textiles.*

### Vehicle graphics

Wraps, side panels, window stickers, logos.

*Self-adhesive vinyls and films.*

### Decoration

Wall covering.

*Textiles, paper, film and self-adhesive vinyl.*

### Signage

Double-sided signs, information signs, light boxes, personalised signs, soft signage, directional signs and window stickers.

*Coated / uncoated paper, fabric, film and self-adhesive vinyl.*

### Photos and fine art prints

Designer prints, fine art prints and photo enlargements.

*Coated / uncoated papers, film, self-adhesive vinyl and textiles.*

### Labels and flexible packaging

Food, wine, beverage, pharmaceuticals, cosmetics and household goods.

*Paper, synthetic paper, OPP and PET film.*



Window graphics



# RICOH Pro L4130/L4160

## SYSTEM SPECIFICATIONS

### General Specifications

Printing Process	On demand Piezo inkjet system (RICOH GEN5 two head in line)
Ink Type	Aqueous durable (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 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 6 colors + white
Usable Ink	4 colors: CMYK, Or, Gr, W
Ink Configuration	6 colors: CMYK, Or, Gr 6 colors and white: CMYK, Or, Gr, + W 4 colors: CMYK
Capacity of Ink Cartridge	– 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: 1,361mm L4160: 1,610mm
Printing Surface	Side facing outward
Roll Media	Media feed width L4130: 1,371mm maximum L4160: 1,620mm maximum L4130/ L4160: 210mm minimum Thickness 0.3mm or less Outside diameter Maximum 180mm or less Inside diameter 2" or 3" Media weight Maximum 25 kg or less Take-up roll 190mm or less Media diameter
Cut Sheet Media	Media feed width L4130: 1,371mm maximum L4160: 1,620mm maximum L4130/ L4160: 210mm minimum Thickness 0.2mm or less
Print Margin	Roll media Left and right end: 15mm (default) Front: 150mm Rear: 0mm Leaf media Left and right end: 15mm (default) Front: 150mm Rear: 200mm
Distance Accuracy	Absolute The greater of +/- 0.3mm) or +/- 0.3% of the distance Reproducibility The greater of +/- 0.0079" (0.2mm) or +/- 0.1% of the distance +/- 0.5mm /1,000mm 5.0mm or less / 10 meter variable L range: 1.8mm M range: 2.3mm H range: 2.8mm
Perpendicularity Media Skew	Cutting of Y direction by the head cutter 1.0mm or less (steps) Bottle
Head Height Adjust	type 2000 cc USB2.0
Cutting Direction Accuracy	100-120V, 50-60Hz, 220-240V 50-60Hz
Waste Ink Tank Interface	Less than 1440W x 2 (100-120V), 1800W x 2 (200-240V)
Power Source	L4130: (2,634 x 854 x 1435mm) L4160: (2,879 x 854 x 1,435mm)
Power Consumption (max)	L4130: Less than 203 kg. L4160: Less than 240 kg.
Dimension (W x D x H)	
Weight	

### 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
	F/hr M/hr F/hr M/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
	F/hr M/hr F/hr M/hr F/hr M/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
	F/hr M/hr F/hr M/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
	F/hr M/hr F/hr M/hr F/hr M/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	Printer Driver	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~
Environment	Installed PC OS	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

### Production Server

Colorgate PS8 (Adobe PDF print engine)
Intuitive control and user interface.
Optimal colour reproduction.
High quality modular components.
Maximum productivity
Ricoh software RIP*

### Environmental

New aqueous durable (latex) inks have very low emissions of VOCs (volatile organic compounds) and lack of odour requiring no ventilation.
Ink cartridges can be used repeatedly, reducing waste and cost.

### 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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