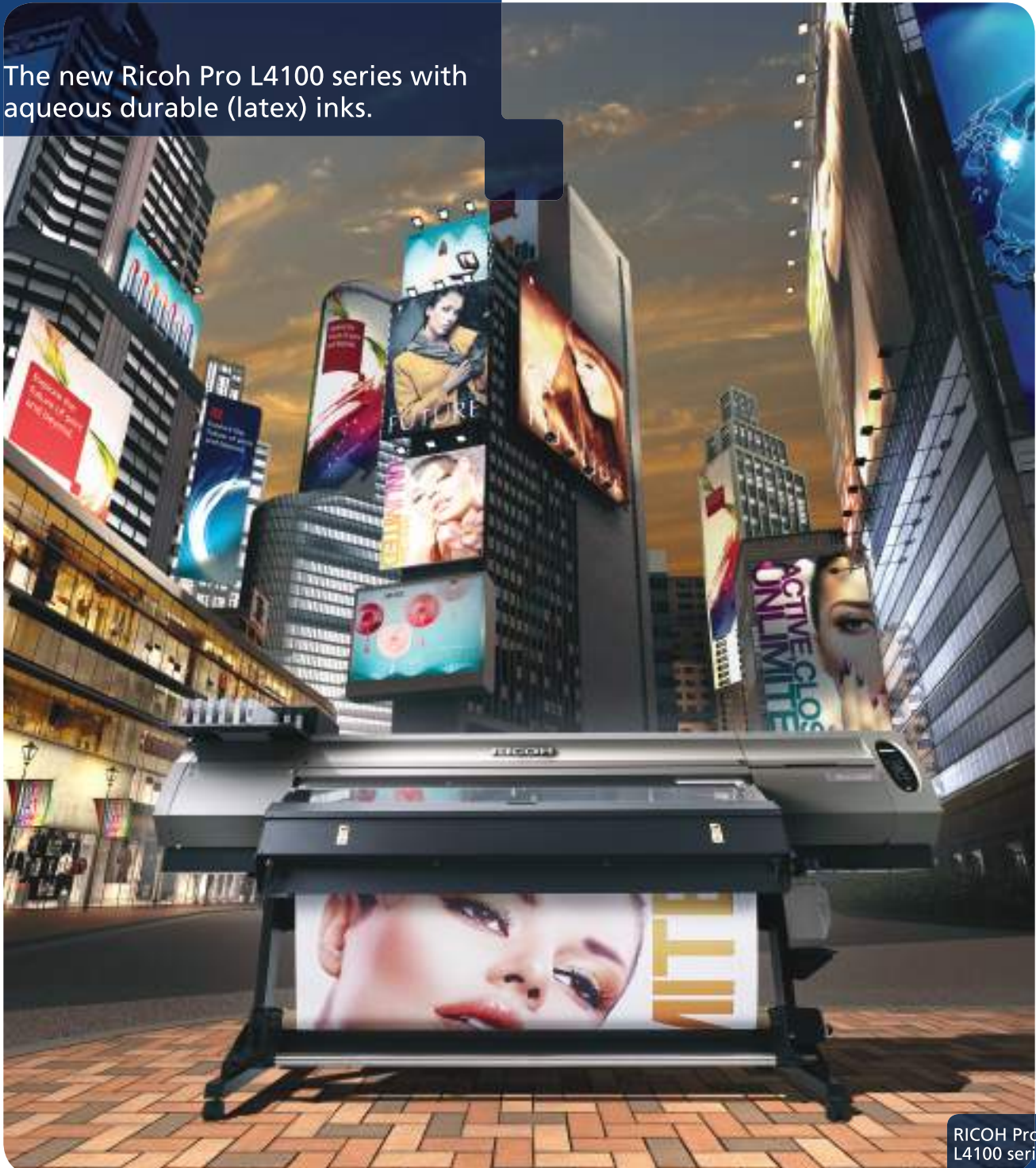# Enlarge your business with Ricoh.

RICOH
imagine. change.

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

RICOH Pro
L4100 series

18.2
m²/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 pictoliters, 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^2/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
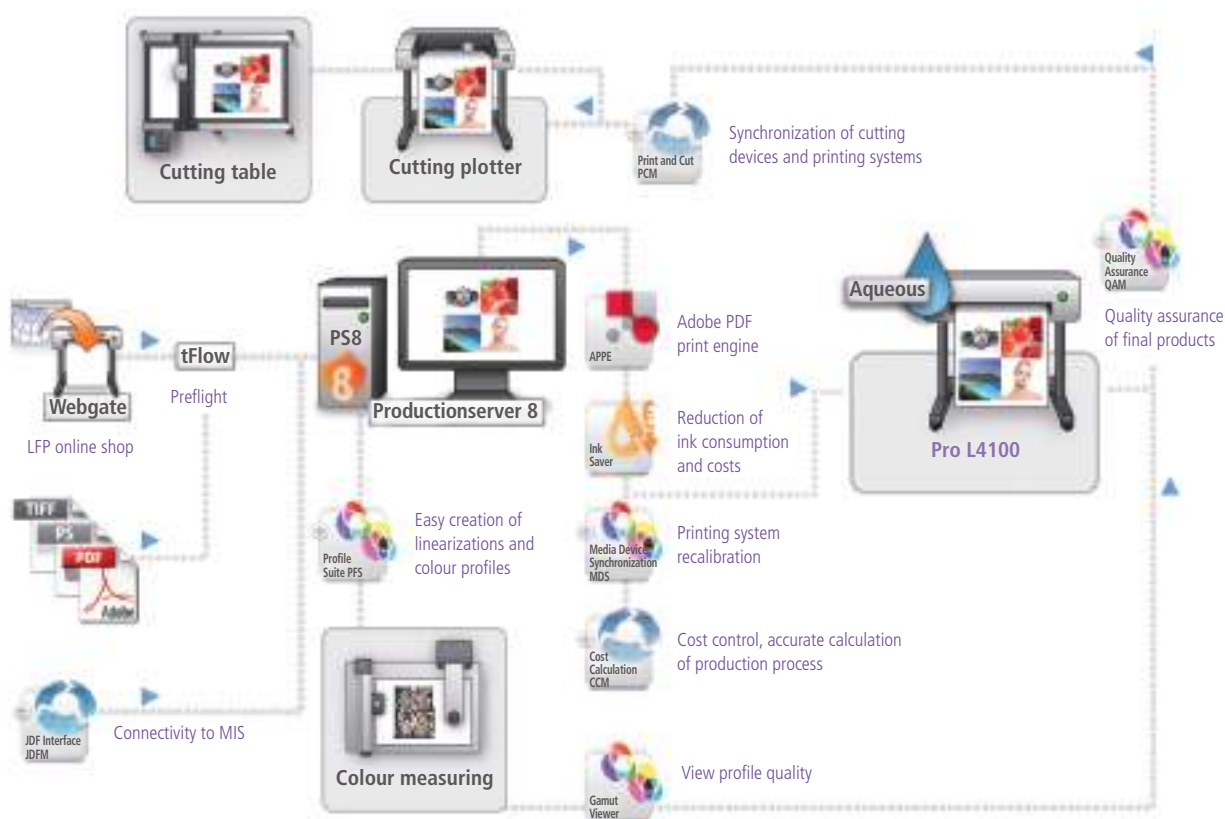of machine.

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.

ColorGATE

Production server

Cutting table

Cutting plotter

Print and Cut PCM

Synchronization of cutting devices and printing systems

Quality Assurance QAM

Aqueous

Quality assurance of final products

tFlow

PS8

APPE

Adobe PDF print engine

Webgate

Preflight

Productionserver 8

Ink Saver

Reduction of ink consumption and costs

Pro L4100

LFP online shop

TIFF PS PDF Adobe

Profile Suite PFS

Easy creation of linearizations and colour profiles

Media Device Synchronization MDS

Printing system recalibration

Cost Calculation CCM

Cost control, accurate calculation of production process

JDF Interface JDFM

Connectivity to MIS

Colour measuring

Gamut Viewer

View profile quality

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

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.

Floor graphics

High quality prints and posters

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
	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: 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 Media diameter	190mm or less
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 +/- 0.3m) or+/- 0.3% of the distance
	Reproducibility	The greater of +/- 0.0079" (0.2mm) or +/- 0.1% of the distance
Perpendicularity		+/- 0.5mm /1,000mm
Media Skew		5.0mm or less / 10 meter variable
Head Height Adjust		L range: 1.8mm M range: 2.3mm H range: 2.8mm
Cutting	Direction	Cutting of Y direction by the head cutter
	Accuracy	1.0mm or less (steps) Bottle
Waste Ink Tank		type 2000 cc
Interface		USB2.0
Power Source		100-120V, 50-60Hz, 220-240V 50-60Hz
Power Consumption (max)		Less than 1440W x 2 (100-120V), 1800W x 2 (200-240V)
Dimension (W x D x H)		L4130: (2,634 x 854 x 1435mm) L4160: (2,879 x 854 x 1,435mm)
Weight		L4130: Less than 203 kg. L4160: Less than 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 Drying Level 2		3 Layers 6C+W+6C 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 Drying Level 2		3 Layers 6C+W+6C 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

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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