

**VersaUV LEC2-300**

UV printer/cutter

# SUPERIOR UV PRINT & CUT ON DEMAND

For premium labels and packaging prototypes



 **Roland**

# Creating Unique and Unparalleled Value

The VersaUV LEC2-300 integrated printer/cutter delivers unmatched versatility on demand with the vibrant richness and lifelike quality of UV printing together with precision contour cutting. It's the ideal solution for one-off and short-run production of custom labels, decals, prototypes and one-of-a-kind personalised items with a premium look on a wide variety of media. Take advantage of this unique flexibility to respond to your clients' diverse needs, delivering on demand and on time.

## Versatility

for a Broad Range of Media Types

The ECO-UV ink used by the LEC2-300 is designed to adhere to a broad range of media, including adhesive sheets for stickers and labels, special PET or PVC-based substrates, and even textiles, thin paper, tarpaulin and more.



## Special Finishes

for Exceptional Effects and Realistic Textures

In addition to CMYK, the LEC2-300 can be used with Gloss and White ink configurations for exceptional, premium-value printing. Use clear (Gloss) ink to add special effects like embossing and gloss or matt finishes, or for producing lifelike custom-textured effects by simply overprinting multiple layers of Gloss ink. With 72 types of textured patterns included, it's easy to create stunning prints that would usually require the use of time-consuming special printing methods.



## Contour Cut

Any Size and Shape

The LEC2-300 provides precision cutting as well as printing functions. This single device can automatically contour cut any shape around printed graphics, photos or text to produce adhesive labels, stickers, and custom-shaped displays without using a die punching machine. Precise and powerful cutting force ensures crisp, clean lines around even the most complex shapes. A Perforated Cut function allows adhesive media to be die-cut, eliminating the post trimming process and speeding up production for fast turnaround jobs. Combined with the new "Multiple Print function" and a new precision media take-up system, high-volume jobs can be printed efficiently with unattended operation.



## On-Demand,

One-Off Production

Unlike analogue printing processes which require plate making, design data can be simply output from a computer to the LEC2-300 via the included VersaWorks 6 RIP software. The entire print production process is quick and simple - print as many copies as required, when required. Urgent corrections or design changes can be printed immediately. Impress clients by providing a tailored service beyond their expectations, even for custom jobs with the tightest of deadlines.



## New Printhead and LED Lamps

for High-definition Printing

A newly developed printhead and LED lamps enable an even higher level of print quality. The new printhead is optimised for precision ink delivery and control. New, more powerful LED lamps make ink curing even faster. As a result, small text, elaborate textured patterns, gradations and other details are reproduced with high precision. By optimising the LED lamps' position, the LEC2-300 produces high quality images even in bi-directional printing mode for increased productivity\*.



## More Opaque White Ink

with High-density Printing

The new printhead and LED lamps also help to increase ink density. The opacity of White ink in particular - often used as a base coat when printing on transparent films or dark materials - has been increased by up to 40%\*. In addition, a new "HD (high density) mode" that increases the density of White ink compared to the normal printing mode makes it possible to select the optimal ink density to suit your production requirements.



\* Compared with the LEC-330's standard mode.

\* Compared with the LEC-330.

# VersaUV LEC2-300

C M Y K GL GL WH WH 6 colour C M Y K C M Y K 4 colour

Micro-run labels for special editions



Indoor signage with braille



Personalised merchandise



One-of-a-kind interior décor



Micro-run labels for gift packaging



Product design verification



# VersaUV LEC2-300

Specifications			
Printing method		Piezo ink-jet method	Repeatability (when cutting) (*4) (*6)
Media	Width	182 to 762 mm (7.2 to 30 in.)	±0.1 mm (±3.9 mil) or less
	Thickness	Max. 1.0 mm (39 mil) with liner, for printing Max. 0.4 mm (16 mil) with liner and 0.22 mm (9 mil) without liner, for cutting	Alignment accuracy for printing and cutting (*4) (*7)
	Roll outer diameter	Max. 210 mm (8.3 in.)	Alignment accuracy for printing and cutting when reloading media (*4) (*8)
	Roll weight	Max. 25 kg (55 lb.)	Connectivity
	Core diameter (*1)	76.2 mm (3 in.) or 50.8 mm (2 in.)	Ethernet (100BASE-TX/1000BASE-T, automatic switching)
Printing/cutting width (*2)		Max. 736 mm (29 in.)	Power-saving function
Ink	Type	ECO-UV (EUV4) 220 cc, 500 cc cartridges	Automatic sleep feature
	Colour	Six colours (cyan, magenta, yellow, black, white, and gloss) Four colours (cyan, magenta, yellow, and black)	Power requirements
Ink-curing unit		Built-in UV-LED lamps x 2	Power consumption
Printing resolution (dots per inch)		Max. 1440 dpi	During operation
Cutting speed		10 to 300 mm/s (0.4 to 11.8 in/s)	Sleep mode
Blade force (*3)		30 to 500 gf	During operation
Blade	Type	Roland CAMM-1 series blade	Acoustic noise level
	Offset	0.000 to 1.500 mm (0.0 to 59.1 mil)	During standby
Software resolution (when cutting)		0.025 mm/step (0.98 mil/step)	Dimensions (with stand)
Distance accuracy (when printing) (*4) (*5)		Error of less than ±0.3% of distance travelled or ±0.3 mm (±11.8 mil), whichever is greater	Weight (with stand)
Distance accuracy (when cutting) (*4)		Error of less than ±0.4% of distance travelled or ±0.3 mm (±11.8 mil), whichever is greater When distance correction has been performed (when the setting for [CUTTING MENU] - [CALIBRATION] has been made): Error of less than ±0.2% of distance travelled or ±0.1 mm (±3.9 mil), whichever is greater	Environment
			During operation
			Not operating
			Included items
			VersaWorks 6 RIP software, dedicated stand, power cable, blade, blade holder, media clamps, media holders, replacement blade for separating knife, cleaning liquid, drain bottle, User's Manual, etc.

\*1 The media holders of this machine are designed to be used exclusively with media that has a paper tube (core) with an inner diameter of 76.2 mm (3 in.). To use 50.8 mm (2 in.) media, the optional media flanges are required. \*2 The length of printing or cutting is subject to the limitations of the program. \*3 500 gf is the maximum instantaneous blade force. \*4 The blade force must be adjusted according to details such as the media thickness. \*5 Media type: Media specified by Roland DG Corporation. Temperature: 25°C (77°F), humidity: 50%RH. Roll media must be loaded correctly. \*6 Applicable when all pinch rollers that can be used with the media width are used. \*7 Side margins: 25 mm (1.0 in.) or more for both the left and right margins. \*8 Excluding expansion/contraction of the media. \*9 Assumes all correction and adjustment functions of the machine have been used properly. \*10 Print travel: 1 m (39.4 in.). \*11 [PREFEED] menu item must be set to "ENABLE." Range for assured repetition accuracy. \*12 For media with a width exceeding 610 mm (24.0 in.): Length: 4,000 mm (157.5 in.). \*13 For media with a width of 610 mm (24.0 in.) or less: Length: 8,000 mm (315.0 in.). \*14 \*15 Provided that the media feed length is 3,000 mm (118.1 in.) or less. \*16 Excludes the effects of slanted movement and of expansion and contraction of the media. \*17 \*18 Data size: 1,000 mm (39.4 in.) in the media-feed direction, 736 mm (29.0 in.) in the carriage-movement direction. \*19 No lamination. \*20 Automatic detection of crop marks at four points when media is reloaded. \*21 During cutting, [PREFEED] menu item must be set to "ENABLE." \*22 Excluding possible shift caused by expansion/contraction of the media and/or by reloading the media. Specifications, designs and dimensions listed may be subject to change without notice.



## Intuitive VersaWorks 6 Ensures Efficient Production

The LEC2-300 includes the latest VersaWorks 6 RIP & Print management software equipped with a user-friendly menu of functions to maximise performance so that high-quality printing can be performed immediately after installation.

## VersaWorks 6 System Requirements

Operating System	Windows® 10 (32/64-bit) / Windows® 8.1 (32/64-bit) Windows® 7 Ultimate / Professional (32/64-bit)	Free hard-disk space	40 GB or more recommended
CPU	Intel® Core™ 2 Duo, 2.0 GHz or faster recommended	Hard-disk file system	NTFS format
RAM	2 GB or more recommended	Optical drive	DVD-ROM drive
Video card and monitor	A resolution of 1,280 x 1,024 or more	Other	Internet connection recommended

## Options

	Model	Description
ECO-UV Ink	EUV4-CY	Cyan, 220 cc
	EUV4-MG	Magenta, 220 cc
	EUV4-YE	Yellow, 220 cc
	EUV4-BK	Black, 220 cc
	EUV4-WH	White, 220 cc
	EUV4-GL	Gloss, 220 cc
	EUV4-5CY	Cyan, 500 cc
	EUV4-5MG	Magenta, 500 cc
	EUV4-5YE	Yellow, 500 cc
	EUV4-5BK	Black, 500 cc
Cleaning liquid	SL-CL	Cleaner, 220 cc
	ZEC-U5032	For general sign vinyl, 2pcs.
Blades	ZEC-U5025	For thick, reflective, fluorescent and general sign vinyl, 5pcs.
Blade holders	XD-CH2	Aluminium blade holder with blade depth adjustment.
	XD-CH3	Resin blade holder with blade depth adjustment.

## Options

### Automated take-up system



### TU4-30

\* Rolls up to 40 kg (88.2 lb.)

This device is capable of printing on a wide variety of substrates. However, the print quality or the ink adhesion may vary according to the substrate used and it is strongly recommended to test the substrate for compatibility to ensure optimal print results.



Vaporised components may slightly irritate the eyes, nose and/or throat during and following printing with this product. If continuously printing in a closed space, the density of volatile compositions will accumulate and may irritate the eyes, nose and/or throat. Roland DG strongly recommends that you install a ventilation system and use this product in a well-ventilated room. For more information, please contact your local distributor or dealer.

**About White Ink** Due to the nature of white ink, the pigment will settle in the cartridge and ink flow system, requiring you to shake the cartridge before each use.

Roland DG reserves the right to make changes in specifications, materials or accessories without notice. Actual output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland DG dealer for details. No guarantee or warranty is implied other than expressly stated. Roland DG shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products. PANTONE® is the property of Pantone LLC. All other trademarks are the property of their respective owners. Reproduction or use of copyrighted material is governed by local, national, and international laws. Customers are responsible for observing all applicable laws and are liable for any infringement. Roland DG Corporation has licensed the MMP technology from the TPL Group.

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