

On Demand UV Print&Cut

Introducing the new VersaUV L EC2-300



VersaUV LEC2-300

Create Unique and Unparalleled Value

The VersaUV LEC2-300 delivers unmatched versatility on demand with the vibrant richness and lifelike quality of UV printing together with sharp, precision contour cutting.

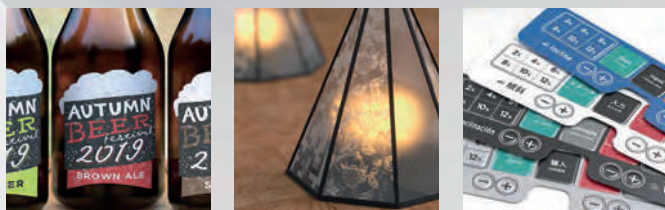
The LEC2-300 the ideal solution for one-off and short-run production of custom labels, decals, prototypes and one-of-a-kind personalised items with a premium-look on a wide variety of media.

Now you can take advantage of this unique versatility and flexibility to respond to the diverse needs of your clients in a timely fashion and on an as-needed basis.

Versatility

for a Broad Range of Media Types

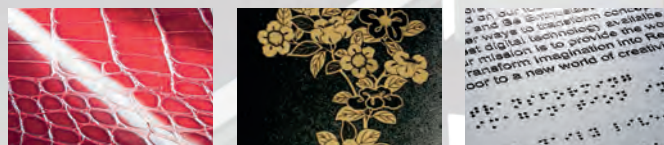
The ECO-UV ink used by the LEC2-300 is designed to adhere to a broad range of media, including adhesive sheets for stickers and labels, special PET or PVC-based substrates, and even textiles, paper, tarpaulin sheet, leather and more.



Special Finishes

for Exceptional Effects and Realistic Textures

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



Contour Cut

any Size and Shape

The LEC2-300 is an integrated printer cutter that 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 for eliminating the post trimming process and supports short turn-around jobs. Combined with the new "Multiple Print function" and a new precision media take-up system, high-volume lots can be printed efficiently without attended operation.



On Demand

one-off Production

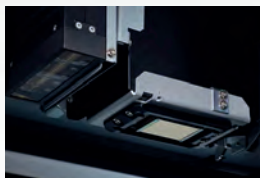
Unlike ordinary printing processes which require plate making, design data can be simply output from a computer to the LEC2-300 via the bundled RIP software. The entire print production process is quick and simple—print as many copies as required when they are required. Urgent corrections or design changes can be printed right there and then. Impress clients by providing a tailored service beyond their expectations, even for jobs with limited copies or deadlines.



New Print Head and LED Lamps

for High-definition Printing

A newly developed print head and LED lamps enable an even higher level of print quality. The new print head is optimised for precision ink delivery and control. New, more powerful LED lamps cure ink for adherence to the media in shorter time. As a result, from small text to elaborate textured patterns, gradations and other details are reproduced with high precision. Furthermore, 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 print head 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.



VersaUV LEC2-300

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

Short-run labels for special editions



Indoor signage with braille



Personalisation of merchandise



One-of-a-kind interior décor



Short-run labels for gift packaging



Product prototypes



VersaUV LEC2 300

Specifications					
Printing method		Piezo ink-jet method	Repeatability (when cutting) (*4) (*69)		±0.1 mm (±3.9 mil) or less
Media	Width	182 to 762 mm (7.2 to 30 in.)	Alignment accuracy for printing and cutting (*4) (*7)		±0.5 mm (±19.7 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 when reloading media (*4) (*8)		Error of less than ±0.5% of distance traveled, or ±3 mm (±0.2 in.), whichever is greater
	Roll outer diameter	Max. 210 mm (8.3 in.)	Connectivity		Ethernet (100BASE-TX/1000BASE-T, automatic switching)
	Roll weight	Max. 25 kg (55 lb.)	Power-saving function		Automatic sleep feature
	Core diameter (*19)	76.2 mm (3 in.) or 50.8 mm (2 in.)	Power requirements		AC 100 to 240 V ± 10%, 3.0 A, 50/60 Hz
Printing/cutting width (*2)		Max. 739 mm (29 in.)			
Ink	Type	ECO-UV (EUV4) 220 ml cartridge	Power consumption	During operation	Approx. 270 W
	Color	Six colors (cyan, magenta, yellow, black, white, and gloss) Four colors (cyan, magenta, yellow, and black)		Sleep mode	40 W
Ink-curing unit		Built-in UV-LED lamp	Acoustic noise level	During operation	63 dB (A) or less
				During standby	53 dB (A) or less
Printing resolution (dots per inch)		Max. 1440 dpi	Dimensions (with stand)		1,934 (W) × 795 (D) × 1,330 (H) mm (76.1 [W] × 31.3 [D] × 52.4 [H] in.)
Cutting speed		10 to 300 mm/s (0.4 to 11.8 in/s)	Weight (with stand)		119 kg (262.4 lb.)
Blade force (*3)		30 to 500 gf			
Blade	Type	Roland CAMM-1 series blade	Environment	During operation	Temperature: 15 to 32°C (59 to 90°F), humidity: 20 to 80%RH (no condensation)
	Offset	0.000 to 1.500 mm (0.0 to 59.1 mil)		Not operating	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80%RH (no condensation)
Software resolution (when cutting)		0.025 mm/step (0.98 mil/step)			
Distance accuracy (when printing) (*4) (*5)		Error of less than ±0.3% of distance traveled or ±0.3 mm (±11.8 mil), whichever is greater	Included items		Dedicated stand, power cord, blade, blade holder, media clamps, media holders, replacement blade for separating knife, cleaning liquid, drain bottle, User's Manual, etc.
Distance accuracy (when cutting) (*4)		Error of less than ±0.4% of distance traveled 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 traveled or ±0.1 mm (±3.9 mil), whichever is greater			

*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 3 inches. To use 2-inch 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. • The blade force must be adjusted according to details such as the media thickness. *4 • Media type: Media specific by Roland DG Corporation • Temperature: 25°C (77°F), humidity: 50%RH • Roll media must be loaded correctly. • Applicable when all pinch rollers that can be used with the media width are used • Side margins: 25 mm (1.0 in.) or more for both the left and right margins • Excluding expansion/contraction of the media • Assumes all correction and adjustment functions of the machine have been used properly *5 • Print travel: 1 m (39.4 in.) *6 • [PREFEED] menu item must be set to "ENABLE." Range for assured repetition accuracy • For media with a width exceeding 610 mm (24.0 in.): Length: 4,000 mm (157.5 in.) • For media with a width of 610 mm (24.0 in.) or less: Length: 8,000 mm (315.0 in.) *7 • Provided that the media feed length is 3,000 mm (118.1 in.) or less • Excludes the effects of slanted movement and of expansion and contraction of the media *8 • Data size: 1,000 mm (39.4 in.) in the media-feed direction, 739 mm (29.0 in.) in the carriage movement direction • No lamination • Automatic detection of crop marks at four points when media is reloaded • During cutting, [PREFEED] menu item must be set to "ENABLE." • Excluding possible shift caused by expansion/contraction of the media and/or by reloading the media



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 maximize 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
PC	Intel Core i7-2 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 ml
	EUV4-MG	Magenta, 220 ml
	EUV4-YE	Yellow, 220 ml
	EUV4-BK	Black, 220 ml
	EUV4-WH	White, 220 ml
	EUV4-GL	Gloss, 220 ml
	EUV4-5CY	Cyan, 500ml
	EUV4-5MG	Magenta, 500ml
	EUV4-5YE	Yellow, 500ml
	EUV4-5BK	Black, 500ml
Cleaning liquid	SL-CL	220 ml
	ZEC-U5032	For sign vinyl in general, 2pcs.
Blades	ZEC-U5025	For thick, reflective and fluorescent vinyl, as well as sign vinyl in general, 5pcs.
	ZD-CH2	Blade holder with blade extension adjuster, made of aluminum
Blade holders	ZD-CH3	Blade holder with blade extension adjuster, made of resin

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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September, 2019

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