

Imagine.

Roland®

PRINT&CUT
VersaUV LEC-330 UV-LED Inkjet Printer/Cutter

DVE
Digital Value Engineering

PRINT&CUT
VersaUV LEC-330

Achieve Finer Quality, Higher Productivity and Greater Versatility with Our Newest UV Inkjet Printer/Cutter

Introducing the next generation in award-winning Roland UV-LED inkjet technology: the compact VersaUV LEC-330 UV inkjet printer/cutter. The LEC-330 is our fastest, most powerful UV inkjet to date, delivering unmatched print quality across an even wider range of materials for high quality package prototyping, control panel production, and small lot production of labels and decals.



Max. acceptable media width:
762 mm (30")

Max. print/cut width:
736 mm (29")



RIIP & PRINT MANAGEMENT SOFTWARE
Roland VersaWorks®



Better Productivity and Lower Ink Consumption

With the LEC-330, we have increased the print speed and lowered your running costs for maximum value and efficiency. The LEC-330 allows you to handle urgent requests by delivering finished prototypes, labels and products to your customers the next day. For example, the LEC-330 can print 100 wine bottle labels (as shown) in 46 minutes*1. To reduce operating costs, the LEC-330 comes with an automatic white ink circulation system that prevents the pigment from settling. As a result, ink waste is minimized and you can print continuously without interruptions.

*1 Print description: Each label above is 104 x 99 mm (4" x 3.9") and was printed in CMYK in standard print mode using Roland VersaWorks® RIP software.

Unmatched Quality Across a Wider Variety of Materials

The LEC-330 prints on a wide variety of media such as paper, film and leather. In addition, it supports card stock, plastic board, polycarbonate and other rigid substrates (except metals) up to 1 mm (0.04") thick for a wide variety of prototyping applications.*2 New high-quality artistic print mode (1440 x 1440 dpi) is ideally suited for offset and gravure printers that require sharp, detailed graphics and text for their prototypes. Print quality is further enhanced by Roland Intelligent Pass Control® technology which delivers smooth gradations and flawless solid fills with virtually no banding in every print mode. White ink allows you to print on dark or transparent substrates with brilliant color.

*2 For best results, test print your LEC-330 graphics on each substrate before production.

Unique Special Effects and Digital Die Cutting — All in One Device

The LEC-330 prints your design beautifully in CMYK+White ink and finishes graphics with rich special effects created by multiple layers of clear coat. Choose any combination of matte and glossy finishes and layer them for interesting patterns — even Braille. Use white ink to print on transparent and shrinkwrap film for food packaging prototypes. No additional die cutting is necessary because the LEC-330 prints and digitally die cuts graphics in virtually any shape automatically through one seamless workflow.



Three Ink configurations to Support Your Business Demands

When installing the LEC-330, you can choose from three ink combinations to meet your business requirements. The standard ink configuration, CMYK+White+Gloss, allows you to use all available LEC-330 ink options for the widest variety of applications. Select the high-opacity white ink configuration, CMYK+White+White, to print on transparent films for soft package prototyping. Take full advantage of thick gloss ink effects such as embossing with the CMYK+Gloss+Gloss configuration, perfect for prototypes that do not call for transparent media. This ink combination allows you to apply gloss ink twice as fast as the standard configuration.

Specifications		
Printing technology		Piezo electric inkjet
Media	Width	182 to 762 mm (7.2 to 30 in.)
	Thickness	Maximum 1.0 mm (39 mil) with liner, for printing Maximum 0.4 mm (16 mil) with liner and 0.22 mm (9 mil) without liner, for cutting
	Roll outer diameter	Maximum 180 mm (7.1 in.)
	Roll weight	Maximum 20 kg (44 lb.)
	Core diameter	50.8 mm (2 in.) or 76.2 mm (3 in.)
Printing / cutting width*1		Maximum 736 mm (29 in.)
Ink cartridges	Types	Roland ECO-UV INK
	Capacity	220 cc
	Colors	Six colors (cyan, magenta, yellow, black, white, and gloss)
Ink-curing unit		Dual UV LED Lamp
Printing resolution (dots per inch)		Maximum 1440 dpi
Cutting speed		10 to 600 mm/s (10 to 300 mm/s in media-feed direction)
Blade force		30 to 300 gf
Blade offset compensation		0.000 to 1.500 mm (0 to 0.0591 in.)
Software resolution (when cutting)		0.025 mm/step (0.000984 in./step)
Distance accuracy (when printing)*2		Error of less than ±0.3% of distance traveled, or ±0.3 mm, whichever is greater
Distance accuracy (when cutting)		Error of less than ±0.4% of distance traveled, or ±0.3 mm, 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, whichever is greater
Repetition accuracy (when cutting)*3		±0.1 mm or less
Alignment accuracy for printing and cutting*4		±0.5 mm or less
Alignment accuracy for printing and cutting when reloading media*5		Error of less than ±0.5% of distance traveled, or ±3 mm, whichever is greater
Connectivity		Ethernet (10BASE-T/100BASE-TX, automatic switching)
Power-saving function		Automatic sleep feature
Power requirements		AC 100 to 240 V ±10%, 50/60 Hz, Maximum 4.2 A
Power consumption	During operation	Maximum 370 W
	Sleep mode	Approx. 15.3 W
Dimensions (with stand)*6		2,200 (W) x 820 (D) x 1,260 x (H) mm (86.6 (W) x 32.3 (D) x 49.6 (H) in.)
Weight (with stand)		177 kg (390.2 lb.)
Environmental	Power on	Temperature: 20 to 32°C (68 to 90°F) (22°C [72°F] or higher recommended), humidity: 35 to 80% (no condensation)
	Power off	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80% (no condensation)
Accessories		Stands, power cord, blade, blade holder (XD-CH2), media clamps, replacement blade for separating knife, cleaning kit, software RIP (Roland VersaWorks), and user's manual, etc.

*1 The length of printing or cutting is subject to the limitations of the program.
*2 Using Roland specified media, print travel of 1m, temperature: 25°C (77°F), humidity: 50%RH
*3 Using Roland specified media, loaded on the shaft. [PREFEED] menu item must be set to "ENABLE," with 25 mm or more for both right and left margins and 35 mm or more front margin, excluding expansion or contraction of the media. Media 3,000 mm long.
*4 Provided that media length is under 3,000 mm. Temperature: 25°C (77°F). Excluding possible shift caused by expansion or contraction of the media and/or by reloading the media.
*5 Using Roland specified media, data size: 1,000 mm in the media-feed direction, 736 mm in the carriage-movement direction. No lamination. Automatic detection of crop marks at 4 points when media is reloaded. During cutting, [PREFEED] menu item must be set to "ENABLE." Temperature: 25°C (77°F). Excludes the effects of slanted movement and of expansion and contraction of the media.
*6 During operation of the media take-up system, an operating range of approximately 80 mm back from the front edge of the dancer roller is required.

Roland VersaWorks System Requirements

Operating system	Windows Vista® Ultimate Service Pack 1 or Business Service Pack 1 (32-bit edition), Windows Vista® Ultimate or Business (32-bit edition), or Windows® XP Professional Service Pack 2 or 3, or Windows® 2000 Service Pack 4
CPU	2.0 GHz or faster Pentium® 4 recommended
RAM	1 GB or more recommended (2 GB or more recommended for Windows Vista®)
Video card and monitor	A resolution of 1,280 x 1,024 or more recommended
Free hard-disk space	40 GB or more recommended
Optical drive	DVD-ROM drive

Roland VersaWorks-Compatible Application Software

Adobe® Illustrator® 10, CS, CS2, CS3, CorelDRAW® 11, 12, X3

Options	Model	Description
ECO-UV Media	DuPont™ Tyvek® 1056D	Nonwoven lightweight, 760 mm x 50 m (29.9' x 164')
	EUV-MG	Magenta, 220cc
	EUV-YE	Yellow, 220cc
	EUV-CY	Cyan, 220cc
	EUV-BK	Black, 220cc
ECO-UV Ink	EUV-WH	White, 220cc
	EUV-GL	Gloss, 220cc
	SL-CL	1 pc.
Cleaning liquid	ZEC-U5022	For thick, reflective and fluorescent vinyl, 2pcs.
	ZEC-U5025	For thick, reflective and fluorescent vinyl, 5pcs.
Blades		
Blade holder	XD-CH2	Blade holder with blade extension adjuster, made of aluminum

Vaporized 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 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
The pigment in white ink will settle in the cartridge and ink flow system. Due to the nature of white ink, you must shake the cartridge before each use.

Roland DG products that feature this environmental label meet the company's criteria for environmental consciousness, a set of standards based on ISO 14021 self-declaration type II. For more information, please visit www.rolanddg.com.



ISO 14001:2004 and ISO 9001:2000 Certified
Roland pursues both environmental protection and continuous quality improvement. Under the philosophy of preserving the environment and human health, Roland is actively working to abolish organic solvents in production, to reduce and recycle waste, to reduce power use, and to purchase recycled products. Roland constantly strives to provide the most highly reliable products available.



Roland reserves the right to make changes in specifications, materials or accessories without notice. Your actual output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland dealer for details. No guarantee or warranty is implied other than expressly stated. Roland shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products. Adobe, PostScript, PostScript 3 and the PostScript logo are trademarks of Adobe Systems Incorporated. All trademarks are the property of their respective owners. Roland DG Corp. has licensed the MMP technology from the TPL Group.

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Printed in Japan. RDG-4160745 09 SEP F-3 P-S

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PRINT&CUT VersaUV LEC-540

UV-LED Inkjet Printer/Cutter

DVE
Digital Value Engineering

PRINT&CUT
VersaUV LEC-540

Let Your Imagination Soar With Our New, Larger and Faster UV-LED Inkjet Printer/Cutter

With its ability to print CMYK plus White and Clear ink for varnishing and embossing effects on a wide array of substrates, our VersaUV printer/cutters quickly revolutionized the packaging prototype and short-run label industries. Now, our 54" model takes your creativity to an even larger scale. Our newest model further enhances your workflow by printing and contour cutting designs, producing folds and perforated cuts, and providing built-in support for rigid substrates all in just one device. In addition to packaging prototypes and labels, you can print and contour cut control panels and large, decorative graphics including fine art.



Roland Texture System Library



Packaging prototype created from 1100mm (43.31") clay-coated newsback board (CCNB) is a perfect match to the final product.

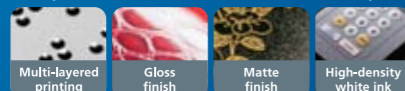
Layers of clear ink on decorative shatterproof film turn window displays into works of art.

The LEC-540 brings canvas prints to life with custom textures and effects.



Roland's Unique UV-LED Technology Expands Your Creative Reach

The LEC-540 accepts media up to 1372mm wide for large-scale graphics that are highly customized. Create realistic packaging prototypes for your clients to review, or textured fine art posters that look and feel just like hand-painted art. Labels, decals, and even control panels are easy to produce, all from one device through one seamless workflow. Choose from vinyl, polyester film, synthetic paper, PET, banner, and even clay-coated newsback board (CCNB) and other rigid substrates* up to 1mm thick. An integrated crease tool allows you to crease cardboard for easy folding of packaging prototypes. You can also perforate the contours of your designs for easy removal of excess media. For optimum results, built-in front and back tables support flawless feeding of thicker materials. Artistic print mode delivers 1440 x 1440 dpi resolution for uncompromising image quality. Add unique design elements with high-density white ink, or choose from our library of 72 pre-designed patterns and textures created by layers of ECO-UV Gloss ink.



*Excludes metals

Roland OnSupport Messaging System Included for Remote Production Management

With the LEC-540, you receive Roland OnSupport, an online customer support system that allows you to remotely track the status of your LEC-540 activities. The system keeps you informed by sending e-mail notifications directly to your PC or mobile phone with important information such as when a job is completed or ink is running low. You can leave your printer unattended knowing that critical production information will be sent to you in real time.



New Larger UV-LED Lamps Provide Twice the Productivity

The LEC-540 features new, larger LED lamps that increase the UV ink curing area and your productivity. As a result, the LEC-540 is twice as fast as the 30" model in Standard CMYK print mode (720 x 1080). The LEC's UV LED lamps reposition themselves automatically depending on the mode to allow high-speed printing while maintaining exceptional print quality. This groundbreaking technology makes it easy to produce outstanding results on large customized items such as decorative window graphics printed with both white and clear inks for unique design elements and textures. You can even print directly on paper banners for trade show graphics that stand out from the rest.

Mode	LEC-540	LEC-330
High-Speed	11.7m ² /h (126.1 sqft/hr)	4.7m ² /h (50.6 sqft/hr)
Standard	5.2m ² /h (56.4 sqft/hr)	2.7m ² /h (29.07 sqft/hr)
High-Quality	3.9m ² /h (42.1 sqft/hr)	1.8m ² /h (19.4 sqft/hr)

Renowned Roland Print&Cut Technology and Powerful VersaWorks RIP Software

The LEC-540 contour cuts or perforates materials up to 0.4mm thick* for easy removal of excess media. An advanced media take-up system collects printed and cut graphics for reliable unattended production. Roland VersaWorks is included and is built on the genuine Adobe® PostScript® 3™ engine for reliable quality print after print. VersaWorks features the Roland Texture System Library including 72 textures and patterns that can be produced by layering the LEC-540's ECO-UV Gloss ink. VersaWorks automatically estimates the ink usage and print time for each graphic so you can accurately monitor your time and costs.

*For best results, professionals should test print LEC-330 graphics and cut on each substrate before production.

Specifications		
Printing technology	Piezo electric inkjet	
Ink cartridges	Types	Roland ECO-UV INK
	Capacity	220 cc
	Colors	Six colors (cyan, magenta, yellow, black, white, and gloss)
	Configuration*1	CMYK+Gloss+White, CMYK+White+White, or CMYK+Gloss+Gloss
Ink-curing unit	Dual UV-LED Lamp	
Media	Width	260 to 1371 mm (10.2 to 54 in.)
	Thickness	Maximum 1.0 mm (39 mil) with liner, for printing, Maximum 0.4 mm (16 mil) with liner and 0.22 mm (9 mil) without liner, for cutting
	Roll outer diameter	Maximum 210 mm (8.3 in.)
	Roll weight	Maximum 30 kg (66 lb.)
	Core diameter*2	76.2 mm (3 in.) or 50.8 mm (2 in.)
Printing / cutting width*3	Maximum 1346 mm (53 in.)	
Printing resolution (dots per inch)	Maximum 1440 dpi	
Cutting speed	10 to 600 mm/s (10 to 300 mm/s in media-feed direction)	
Blade force	30 to 300 gf	
Blade offset compensation	0.000 to 1.500 mm (0 to 0.0591 in.)	
Software resolution (when cutting)	0.025 mm/step (0.000984 in./step)	
Distance accuracy (when printing)*4 *5 *9	Error of less than ±0.3% of distance traveled, or ±0.3 mm, whichever is greater	
Distance accuracy (when cutting)*4 *9	Error of less than ±0.4% of distance traveled, or ±0.3 mm, 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, whichever is greater	
Repetition accuracy (when cutting)*4 *6 *9	±0.1 mm or less	
Alignment accuracy for printing and cutting*4 *7 *9	±0.5 mm or less	
Alignment accuracy for printing and cutting when reloading media*4 *9	Error of less than ±0.5% of distance traveled, or ±3 mm, whichever is greater	
Connectivity	Ethernet (10BASE-T/100BASE-TX, automatic switching)	
Power-saving function	Automatic sleep feature	
Power requirements	AC 100 to 240 V ±10%, 50/60 Hz, maximum 5.5 A	
Power consumption	During operation	490 W
	Sleep mode	15.3 W
Acoustic noise level	During operation	64 dB (A) or less
	During standby	40 dB (A) or less
Dimensions (with front table and stand)	2,925 (W) x 1,120 (D) x 1,260 x (H) mm (115.2 (W) x 44.1 (D) x 49.6 (H) in.)	
Weight (with stand)	225 kg (496 lb.)	
Environmental	Power on	Temperature: 20 to 32°C (68 to 90°F) [22°C (72°F) or higher recommended], humidity: 35 to 80% (no condensation)
	Power off	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80% (no condensation)
Accessories	Stand, power cord, crease tool (XD-CT), blade (ZEC-U5022, ZEC-U3050), blade holder (XC-CH2), media clamps, replacement blade for separating knife, cleaning kit, software RIP (Roland VersaWorks), and user's manual, etc.	

- *1 Ink configuration must be selected upon purchase.
- *2 The media holder of this machine is exclusively for media with paper tube core inner diameter 3 inches. To use a 2 inch media core, please use the optional available media flanges.
- *3 The length of printing or cutting is subject to the limitations of the program.
- *4 Using Roland specified media, loaded correctly, temperature: 25°C (77°F), humidity: 50%, all pinch rollers are used, 25 mm or more for both right and left margins and 35 mm or more front margin, excluding expansion or contraction of the media, and all correction and adjustment functions of this machine have been made properly.
- *5 Using Roland specified media, print travel of 1m
- *6 [PREFEED] menu item must be set to "ENABLE." Media 3,000 mm long.
- *7 Provided that media length is under 3,000 mm. Excluding possible shift caused by expansion or contraction of the media and/or by reloading the media.
- *8 Using Roland specified media, data size: 1,000 mm in the media-feed direction, 1,346 mm in the carriage-movement direction. No lamination. Automatic detection of crop marks at 4 points when media is reloaded. During cutting, [PREFEED] menu item must be set to "ENABLE."
- *9 Excludes the effects of skewed movement and of expansion and contraction of the media.
- *9 Applicable when neither the front table nor the rear table is used.

Roland VersaWorks System Requirements

Operating system	Windows® 7 Professional or Ultimate (32-bit); Windows Vista® Business/Ultimate Service Pack 1 (32-bit); Windows Vista® Business/Ultimate (32-bit); Windows® XP Professional Service Pack 2 or later
CPU	Core™2 Duo, 2.0 GHz or faster recommended
RAM	1 GB or more recommended (Windows 7 and Vista: 2 GB or more recommended)
Video card and monitor	A resolution of 1,280 x 1,024 or more recommended
Free hard-disk space	40 GB or more recommended
Hard-disk file system	NTFS format
Optical drive	DVD-ROM drive

Roland VersaWorks-Compatible Application Software

Adobe® Illustrator® 10, CS, CS2, CS3, CS4, CorelDRAW® 11, 12, X3

Options	Model	Description
ECO-UV Media	DuPont™ Tyvek® 1056D	Nonwoven lightweight, 760 mm x 50 m (29.9' x 164')
	EUV-MG	Magenta, 220cc
	EUV-YE	Yellow, 220cc
	EUV-CY	Cyan, 220cc
	EUV-BK	Black, 220cc
ECO-UV Ink	EUV-WH	White, 220cc
	EUV-GL	Gloss, 220cc
	SL-CL	1 pc.
Cleaning liquid	SL-CL	1 pc.
Crease tool	XD-CT	1 pc.
Blades	ZEC-U3050	For vinyl, sandblast, card board, 1pc.
	ZEC-U5022	For thick, reflective and fluorescent vinyl, 2pcs.
	ZEC-U5025	For thick, reflective and fluorescent vinyl, 5pcs.
Blade holder	XD-CH2	Blade holder with blade extension adjuster, made of aluminum



Vaporized 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 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.

Roland DG products that feature this environmental label meet the company's criteria for environmental consciousness, a set of standards based on ISO 14021 self-declaration type II. For more information, please visit www.rolanddg.com.



As an ENERGY STAR® partner, Roland DG Corporation has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.



ISO 14001:2004 and ISO 9001:2008 Certified

Roland pursues both environmental protection and continuous quality improvement. Under the philosophy of preserving the environment and human health, Roland is actively working to abolish organic solvents in production, to reduce and recycle waste, to reduce power use, and to purchase recycled products. Roland constantly strives to provide the most highly reliable products available.



Roland reserves the right to make changes in specifications, materials or accessories without notice. Your actual output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland dealer for details. No guarantee or warranty is implied other than expressly stated. Roland shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products. Adobe, PostScript, PostScript 3 and the PostScript logo are trademarks of Adobe Systems Incorporated. All other trademarks are the property of their respective owners. Roland DG Corp. has licensed the MMP technology from the TPL Group.

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