Imagine.

Roland ®

DVE
Digital Value Engineering

PRINT&CUT
VersaUV LEC-300A UV-LED Inkjet Printer/Cutter

Create Textures and Special Effects On-Demand

Roland's VersaUV LEC-300A inkjet printer/cutter delivers the ultimate in versatility, affordability and ease of use for premium prototypes, comps and specialty graphics. VersaUV is the industry's only UV inkjet printer/cutter to combine CMYK + White + Clear Coat printing with digital die cutting all in one device. These features allow you to generate beautiful gloss and matte finishes or layer clear coat for custom textures and special effects. Roland's advanced ink circulation system lowers your running costs by reducing white ink waste.

Poster with gloss area highlights

Industrial prototypes

Labels and decals printed on transparent film with white ink backing

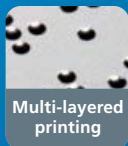UV LED | ENERGY STAR | Roland Texture System Library | Adobe PostScript 3 | Print &Cut | Roland Intelligent Pass Control | RIP & PRINT MANAGEMENT SOFTWARE Roland VersaWorks®
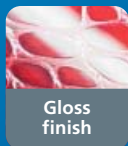
Add Unique Glossy Effects and Digitally Die Cut Your Graphics — All on One Device

The VersaUV LEC-300A beautifully prints your design and finishes graphics with rich special effects created by 3-dimensional layers of clear coat. 50 ready-to-use textures are available, adding luxury and distinction to your prototypes and comps. Choose any combination of matte and gloss finishes and layer them for interesting patterns. Use white ink to print on transparent and shrinkwrap film for food packaging prototypes. No additional die cutting is necessary because the LEC-300A prints and digitally die cuts graphics in virtually any shape automatically through one seamless workflow.

Multi-layered printing | **Gloss finish** | **Matte finish** | **High-density white ink** | **Print & Cut**

Unmatched Quality Across a Wide Variety of Materials

The VersaUV prints on a wide range of media including 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 variety of prototyping applications.* Roland Intelligent Pass Control® technology delivers smooth gradations and flawless solid fills in every print mode. White ink allows you to print brilliant colors on dark and transparent substrates.

* For the best results, test print your LEC-300A graphics on each substrate before production.
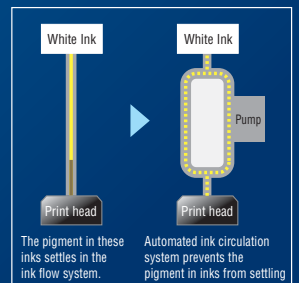
Includes Powerful, Easy-to-Use Roland VersaWorks RIP Software

With VersaWorks RIP software, anyone can achieve professional print quality without advanced skills or previous experience. For the VersaUV, VersaWorks includes 50 patterns pre-registered into the texture library and ready to apply to your design. VersaWorks also features the Roland Color System which accurately reproduces spot colors from Roland Color charts and swatch books. To monitor your time and costs, VersaWorks automatically estimates the ink usage and print time for each graphic you produce. VersaWorks is built on the genuine Adobe PostScript 3 engine for reliable quality and operation.

Advanced Ink Circulation System Dramatically Lowers Running Costs

The LEC-300A includes an automated ink circulation system that prevents the pigment in white inks from settling. This advanced ink circulation system requires no manual intervention and reduces ink waste by up to 70% for dramatically lower running costs.* The system also enables printing immediately after turning on the device for maximum productivity and exceptional image quality throughout the longest production runs.

White Ink | White Ink
Pump
Print head | Print head
The pigment in these inks settles in the ink flow system. | Automated ink circulation system prevents the pigment in inks from settling

*Results are based on Roland DG's comparison test between the LEC-300A and the previous model.

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
	Color	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
Repeatability (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. 14.4 W
Dimensions (with stand)*6		2,200 (W) × 820 (D) × 1,260 × (H) mm (86.6 (W) × 32.3 (D) × 49.6 (H) in.)
Weight (with stand)		177 kg (390.2 lb.)
Environmental	Power on	Temperature: 20 to 32°C (68 to 90°F), 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, blade, blade holder (XD-CH2), media clamps, replacement blade for separating knife, cleaning kit,
		software RIP (Roland VersaWorks), 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® 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; or Windows® 2000 Service Pack 4
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, CorelDRAW® 11, 12, X3

Options	Model	Description
ECO-UV Media	DuPont™ Tyvek® 1056D	Nonwoven lightweight, 760 mm x 50 m (29.9" x 164')
ECO-UV Ink	EUV-MG	Magenta, 220cc
	EUV-YE	Yellow, 220cc
	EUV-CY	Cyan, 220cc
	EUV-BK	Black, 220cc
	EUV-WH	White, 220cc
	EUV-GL	Gloss, 220cc
Cleaning liquid	SL-CL	1 pc.
Blades	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.

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 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.

ECO

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.

ENERGY STAR

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.

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AUTHORIZED DEALER:

OLYMP Electronic COM
Jovana Daje 10 Beograd
Tel/Fax 011/2863-424 3049-355
Roland DIGITALGROUP
www.olymp.rs   office@olymp.rs

AUTORISED DISTRIBUTOR

Printed in Japan. RDG-416079599 10 FEB C-3 P-S

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