Smartphone case

Photo frame

ID card

Nameplate

Roland

VersaUV LEF-300

Roland VersaWorks Dual

VersaUV LEF-300

Specifications

Printing technology		Piezoelectric inkjet
Media	Dimensions	Max. 800 (width) × 360 (length) × 100 (height) mm (31.5 × 14.2 × 3.94 in.)
	Weight	Max. 8 kg (18 lbs.)
Printing width and length		Max. 770 (width) × 330 (length) mm (30.3 × 13 in.)
Ink cartridges	Type and capacity	ECO-UV 220 cc cartridge ECO-UV 500 cc cartridge (White ink is not available in 500 cc cartridges.)
	Colors	6 colors (cyan, magenta, yellow, black, white, and gloss)
Ink-curing unit		UV-LED lamp
Print resolution (dpi)		Max. 1,440 dpi
Distance accuracy*		Error of less than ±0.3 mm (±11.8 mil) or ±0.3% of the specified distance, whichever is greater
Position reproducibility*		Error of less than ±0.2 mm (±7.9 mil) or ±0.1% of the specified distance, 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%, 2.1 A, 50/60 Hz
Power consumption	During operation	Approx. 178 W
	Sleep mode	Approx. 18 W
Acoustic noise level	During operation	60 dB (A) or less
	During standby	49 dB (A) or less
Dimensions		1,560 (width) × 955 (depth) × 576 (height) mm (61.4 × 37.6 × 22.7 in.), [When the ink-cartridge tray is attached; 1,866 × 955 × 576 mm (73.5 × 37.6 × 22.7 in.)]
Weight		144 kg (317.5 lbs.)
Environment	Power on	Temperature: 20 to 32°C (68 to 90°F) (22°C [72°F] or higher recommended), Humidity: 35 to 80% RH (non-condensing)
	Power off	Temperature: 5 to 40°C (41 to 104°F), Humidity: 20 to 80% RH (non-condensing)
Included items		Power cord, RIP & PRINT MANAGEMENT SOFTWARE (Roland VersaWorks Dual). User's Manual and Pad trays, etc.

* Temperature: 23°C (73°F), humidity: 50%

Options

		Model
ECO-UV EUV4 Ink	220cc	EUV4-CY (Cyan), EUV4-MG (Magenta), EUV4-YE (Yellow), EUV4-BK (Black), EUV4-GL (Gloss), EUV4-WH (White)
	500cc	EUV4-5CY (Cyan), EUV4-5MG (Magenta), EUV4-5YE (Yellow), EUV4-5BK (Black), EUV4-5GL (Gloss)
Cleaning liquid	220cc	SL-CL

* White ink is not available in 500 cc cartridges.

Roland VersaWorks Dual System Requirements

Operating system	Windows® 10 (32/64-bit) Windows® 8/8.1 (32/64-bit) Windows® 7 Professional / Ultimate (32/64-bit)
CPU	Intel® Core™2 Duo, 2.0 GHz or faster recommended
RAM	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 Dual is a 32-bit application, which runs on 64-bit Windows® with WoW64 (Windows 32-bit on Windows 64-bit).

Optional Deodorising System

An optional deodorising system is available for the LEF-300.
This includes an activated carbon filter which effectively removes the odour and volatile substances that occur during printing. This unit can be placed easily underneath the LEF-300.

⚠ 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 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.

Imagine. **Roland**

AUTHORIZED DEALER:

VersaUV LEF-300

OPEN IMAGINATION

www.rolanddg.com

IMAGE FACTORY

Amazing VersaUV LEF technology. Now larger and more productive than ever.
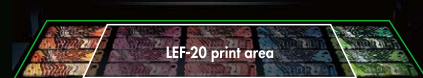
VersaUV LEF-300
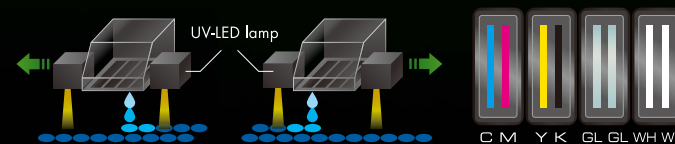C M Y K GL WH
6 COLORS

PRODUCTIVITY

Expedite your workflow with a host of productivity features.

To accommodate greater quantities and larger-sized items, the LEF-300's printing area has been expanded to 770 mm wide by 330 mm long. With four print heads and two UV-LED lamps, one of which moves, the LEF-300 enables bidirectional printing approximately 1.6times* faster than previous models. White and clear (gloss) ink are now jetted through two rows of nozzles each for faster printing, increased density and opacity and faster build-up of multiple layers for three-dimensional textures. A new draft print mode improves overall efficiency for users in need of quick prototype prints.
* CMYK

LEF-20 print area

LEF-300 print area [770 (width) x 330 (length) mm]

UV-LED lamp

C M Y K GL GL WH WH

LEF-300 enables bidirectional printing by installed lamps on both sides of the print head.

4-print head

LEF-300 throughput

CMYK		White		Clear	
High Quality :	1.39 m²/h	High Quality :	1.07 m²/h	Gloss Varnish :	1.26 m²/h
Standard :	2.26 m²/h	Standard :	2.26 m²/h	Matte Varnish :	2.19 m²/h

Number of days required for production of 1,000 smartphone cases*

LEF-300	1.8 days — Less than half the previous production period!
LEF-20	4.2 days

* When printing 8 hours a day, CMYK+Wh, for 142 x 72mm size smartphone cases

Roland VersaWorks Dual advanced intuitive RIP software included

Roland VersaWorks Dual RIP software includes all the advanced and ease-of-use features of VersaWorks, and now supports both PostScript and PDF files for improved file processing and automatic creation of white and clear ink layers. In addition, features like offset, positioning, rotation and registration of ink layers can be handled directly in the RIP without the need to return to design software.

Roland VersaWorks Dual
RIP & PRINT MANAGEMENT SOFTWARE

QUALITY

Achieve high-quality printing on a wide range of materials

Able to accommodate items up to 100 mm in height, the LEF-300 enables printing on a wide variety of substrates such as PET, ABS, and polycarbonate, and soft materials such as TPU and leather, as well as three-dimensional items, including pens, smartphone cases, signs, personalized awards, giftware, promotional items and laptop covers. A vacuum table makes it easy to hold thin materials in place. The possibilities are virtually endless.

Advanced ECO-UV inks produce outstanding results

Designed for flexibility, ECO-UV inks image beautifully and conform around the most complex corners and curves for decoration of a wide variety of items from stunning gifts and novelty items to industrial parts and product prototyping. The LEF-300 comes equipped with VersaUV's proprietary CMYK, White and Clear (gloss) ECO-UV inks for premium quality prints. By printing a base layer of high-density white ink, even greater brilliance can be achieved when using clear or dark-colored materials. Clear ink produces gloss and matte-finishes. Multiple layers of clear ink can be applied to create simulated embossing and three-dimensional textures, and the included VersaWorks Dual RIP software comes with 72 ready-to-use texture patterns.

Roland Texture System Library

Built to meet the demands of high volume operations

In order to maintain accurate high-quality printing even during long production runs, the LEF-300 incorporates precision parts that are not susceptible to changes in temperature or humidity. To meet the needs of production site customers, the LEF-300 includes an input/output system that supports external devices such as warning lights and custom production automation systems.

Full cover ensures safety and print quality

The LEF-300 cover provides excellent airtight enclosure to prevent dust from entering the print area, while keeping the UV-LED light contained. Ink cartridges are located on the side of the device to allow replacement during operation without having to open the cover.

Meter gauge panel   Key chain   Leather pouch   Smartphone case   Painted (pasted) canvas