Imagine.

Roland®

DVE
Digital Value Engineering

MAGIC BOX

VersaUV
LEF-20

Photo album

Engine ignition switch

Cosmetics packaging prototypes

Tablet case

Display

Welcome sign

Faster Production
Bigger Print Area
Better Return on Investment

Since its introduction, the revolutionary VersaUV LEF series has opened up new creative possibilities, enabling direct printing on an endless variety of substrates and three-dimensional objects. Now we have taken this technology to the next level. In addition to expanding the print area to 508 mm width by 330 mm in length, we have introduced a powerful new UV-LED lamp which dramatically increases productivity and overall performance. With the LEF-20, small-lot printing on demand is now easier than ever to achieve. You can print directly on products and their prototypes, souvenirs, novelty goods, industrial parts, and even consumer electronics items. To further increase your profits, the LEF-20 features a unique ink configuration that includes high-quality full-colour printing, plus white and clear inks for premium special effects

VersaUV LEF-20

Greater print area and productivity

The LEF-20 features a significantly expanded print area that is approximately twice that of our previous model,* allowing you to print directly on objects up to 508 mm width, 330 mm length, and 100 mm in height. At 20 inches wide, the LEF-20 combines a new, more powerful UV-LED curing system, advanced ECO-UV ink, and optimized print control technology to bring greater productivity. Twenty built-in media settings are available as presets, allowing you to instantly select just the right settings for your most popular jobs. *VersaUV LEF-12

LEF-20's Increased Throughput Speed

	CMYK	White	Gloss Varnish
LEF-20	1.37 m²/h	0.79 m²/h	0.58 m²/h
Previous model	0.61 m²/h	0.31 m²/h	0.24 m²/h

Exceptional print quality

Because the integrated UV-LED lamp instantly cure ink during printing, the LEF-20 can print directly onto materials such as PET, ABS, polycarbonate and TPU, as well as soft materials such as leathers and fabrics. Roland Intelligent Pass Control, our advanced printing technology, enables exceptionally smooth gradations and solid colours with virtually no banding in all print modes to deliver outstanding image quality with sharp images and text.

Premium special effects

The LEF-20 comes equipped with VersaUV's proprietary clear (gloss) ink. This ink allows the LEF-20 to produce premium quality prints with gloss and matte finishes, as well as thick prints with multiple layers of clear ink. For jobs involving transparent or dark coloured materials, the LEF-20 features advance ECO-UV high-density white ink and optimized print control technology which together yield approximately 1.4 times the opacity of our previous model.* *VersaUV LEF-12

Roland Texture System Library

The LEF-20 offers 72 ready-to-use texture patterns.

Ink combinations

CMYK + Clear + White ink

User-friendly operation

The LEF-20 features an enclosed airtight cover to protect the operator from UV light and prevent dust from settling onto the surface of materials while printing. Also, the LEF-20's flatbed design automatically adjusts the distance between the print head and the surface of the material for optimum results.

Intuitive Roland VersaWorks® print management software

The LEF-20 includes Roland VersaWorks® software, which features an intuitive interface for easy operation and job management. Roland VersaWorks® allows the user to choose from two print modes, generic mode for printing fine detail, and distance mode for printing on curved surfaces. Variable data printing is also available, making it easy to personalize printed objects with serial numbers and names.

RIP & PRINT MANAGEMENT SOFTWARE
Roland VersaWorks®

VersaUV LEF-20

UV LED · Adobe PostScript 3 · PANTONE Digital Color · Roland Intelligent Pass Control · Roland Texture System Library · RIP & PRINT MANAGEMENT SOFTWARE Roland VersaWorks® · Roland OnSupport

Specifications

Printing technology		Piezoelectric inkjet
Media	Dimensions	Maximum 538 (width) x 360 (length) x 100 (height) mm
	Weight	Maximum 5 Kg
Printing width and length		Maximum 508 (width) x 330 (length) mm
Ink cartridges	Type and capacity	Roland ECO-UV 220 cc cartridge
	colours	Six colours (cyan, magenta, yellow, black, white, and gloss)
Ink-curing unit		UV-LED Lamp
Printing resolution (dpi)		Maximum 1440 dpi
Distance accuracy *		Error of less than ±0.3% of distance travelled, or ±0.3 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%, 1.8 A, 50/60 Hz
Power consumption	During operation	Approx. 149 W
	Sleep mode	Approx. 13 W
Acoustic noise level	During operation	60 dB (A) or less
	During standby	49 dB (A) or less
Dimensions		1202 (width) x 962 (depth) x 549 (height) mm
Weight		110 Kg
Environmental	Power on	Temperature: 20 to 32°C (22°C/ or higher recommended), Humidity: 35 to 80% RH (non-condensing)
	Power off	Temperature: 5 to 40°C, Humidity: 20 to 80% RH (non-condensing)
Included items		Power cord, software RIP (Roland VersaWorks), and user's manual, etc.

* Temperature: 25°C, humidity: 50%

Options

	Model	Description
ECO-UV Ink	EUV3-CY	Cyan, 220cc
	EUV3-MG	Magenta, 220cc
	EUV3-YE	Yellow, 220cc
	EUV3-BK	Black, 220cc
	EUV3-WH	White, 220cc
	EUV3-GL	Gloss, 220cc
Cleaning liquid	SL-CL	1 pc.

Roland VersaWorks System Requirements

Operating system	Windows® 7 Professional or Ultimate (32/64-bit); Windows Vista® Business/Ultimate (32/64-bit); Windows® XP Professional Service Pack 2 or later (32/64-bit)
CPU	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® 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-20. 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-20.

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

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