



MAGICAL PRINTS. AMAZING PROFITS.



Academic Representative:



Technology Education Concepts

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### Advanced LEF-20 Features

The new, larger LEF-20 offers many additional features that make it the most advanced and versatile printer in its class:

- Roland's next generation UV-LED curing system is included, which dramatically increases print speeds and enhances overall performance.
- A distance print mode ensures even more precise results on curved objects.
- Up to 20 job presets, versus 8 included in the LEF-12, allow you to select specific media settings for your most popular applications.
- Stainless height sensor bar allows for printing on magnetic items such as iPad covers.

### Advanced ECO-UV® Inks for Maximum Performance

The LEF comes configured with CMYK, white and clear ECO-UV inks, specially formulated to deliver high color density and wide gamut for exceptional images print after print. Clear ink can be used to create a broad range of effects, such as simulated embossing and varnishing. By laying down multiple layers of clear ink, you can create truly unique textured effects from water droplets to faux leather and dozens of Roland Texture Library patterns.



### Unsurpassed Media Compatibility Comes Standard

Advanced ECO-UV inks combined with low heat, state-of-the-art UV LED lamps enable the LEF to print on virtually any substrate – both treated and untreated – including PVC, PET, ABS, acrylic, wood, boards, metals\*, soft fabrics, leathers and much more.

### Laser Alignment System for Optimum Registration

The VersaUV LEF features a built-in laser alignment system for quick and easy setup of different materials. Aligning registration by bounding box or center point provides the flexibility to print on objects of all shapes and sizes. Whether it's a flat photo frame, curved golf ball or round coaster, you can automatically capture and process the setup information to ensure proper image placement.

### Mist Filters Ensures Quality and Reliability

To ensure outstanding print quality around the curvatures of objects, mist filters are incorporated in the LEF, catching most residual ink that may mist when printing off the edge or curvature of a product. This cuts down on overspray and keeps the ink from settling on the printer's internal components. Filters are designed to be easily replaceable by the end user.

### Designed for the Environment and Safety

The VersaUV LEF features an LED lamp that is completely ozone-free and emits only UV-A light, making the LEF a safe and energy-efficient alternative to conventional UV printers. In addition, the LEF is fully enclosed, reducing the risk of UV light exposure to the eyes and skin while minimizing odor and limiting dust and debris. To ensure proper ventilation and reduce odor, Roland offers an optional BOFA air filtration system, custom built for LEF printers. This unit also doubles as a cart and storage unit for jigs, fixtures and supplies.

### Includes Roland VersaWorks® RIP with Enhanced Productivity Tools

Based on the latest Adobe® CPSI engine 3019, VersaWorks is a true Adobe PostScript 3® RIP and can control up to four Roland devices at once. VersaWorks comes with advanced features like PANTONE® libraries and the Roland Color System for spot color matching, Variable Data Printing for customized job output, and ink consumption and print time estimation for efficient productivity.

\*Materials such as glass, metal, and others may require use of a primer to enhance ink adhesion.





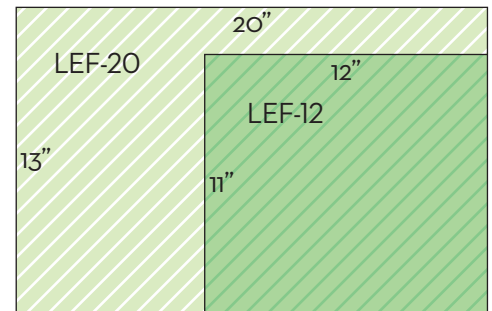
## Some call it magic. We call it superior UV-LED technology.

Introducing the amazing LEF benchtop UV flatbed printers. Print directly on dimensional objects such as awards, giftware, packaging and products with spectacular results. With the LEF, you get all the benefits of Roland's award-winning UV-LED technology, which cures inks instantly on just about any surface. Instant drying and flexible ECO-UV inks deliver high color density and a wide gamut for exceptional images print after print. Specialty inks, including white and clear, allow printing on clear, reflective and colored surfaces and finish graphics with dazzling embossing and varnishing effects.



### Choose from two models.

The LEF-12 accommodates objects up to 12 inches by 11 inches and 3.94-inches thick. The LEF-20 prints on items up to 20 inches by 13 inches and 3.94 inches thick, and includes a host of advanced features.



### Do the math.

Printing for just one hour on the LEF can generate enough income to pay for the lease price. The rest is pure profit.

### 60 Golf Balls (printed on the LEF-20)

Inks	CMYK
Time to print	6 minutes
Blank items cost	\$39.60 (\$0.66 ea.)
Cost of ink	\$0.06
Cost to produce	\$39.66
Retail price	\$124.80 (\$2.08 ea.)
<b>Profit per hour</b>	<b>\$851.40</b>



For videos of the LEF in action, visit [www.rolanddga.com/lef](http://www.rolanddga.com/lef).



## VERSAUV® LEF SERIES UV FLATBED INKJET PRINTERS

- Print CMYK plus White and Clear inks directly on a wide variety of substrates, including three-dimensional items
- Long-lasting UV LED lamps are safe, energy efficient and generate minimum heat
- Advanced ECO-UV inks are instant-curing and flexible so they won't crack
- Patent-pending automated ink circulation system minimizes ink usage for cost savings
- Job presets allow you to recall specific settings instantly for your most popular applications: 8 presets for the LEF-12 and 20 presets for the LEF-20
- Roland VersaWorks® RIP software included
  - > Easy-to-use graphical user interface
  - > Roland Color and PANTONE® libraries for spot color matching
  - > Variable Data Printing
  - > Roland Texture Library for unique texture patterns
- Fully enclosed system reduces risks of UV exposure, keeps out dust and debris, and cuts down on residual ink odor
- State-of-the-Art UV LED Curing System
  - > LED lamp lasts up to 10,000 hours
  - > Low heat and highly energy-efficient
  - > Instant On/Off
- Two-Year Trouble-Free Warranty\*

### LEF-20 advanced features:

- Distance print mode for outstanding quality on curved objects
- Stainless steel height sensor allows printing on magnetic products
- New, advanced UV-LED curing system to expedite production
  - > 2x faster Clear ink and CMYK ink printing



**VERSAUV LEF-12**  
12" UV FLATBED PRINTER  
Shown with optional air filtration unit.\*\*

**VERSAUV LEF-20**  
20" UV FLATBED PRINTER



For detailed features and specifications, visit [www.rolanddga.com/lef](http://www.rolanddga.com/lef).

## PRODUCT SPECIFICATIONS

Model	LEF-20	LEF-12	
Printing method	Piezoelectric inkjet / Table feed system		
Acceptable media	Width	13.2 in. (335 mm)	
	Depth	12.2 in. (310 mm)	
	Thickness	3.94 in. (100 mm)	
	Weight	11 lbs (5 kg)	
Printing area	20 x 13 in. (508 x 330 mm)	12 x 11 in. (305 x 280 mm)	
Ink cartridges	Type	Roland ECO-UV inks	
	Capacity	6 cartridges - 220 ml (± 5 ml)	
	Color	6 colors (Cyan, Magenta, Yellow, Black, White and Clear)	
	Configuration	CMYK+White+Clear	
Ink curing unit	Single UV LED Lamp		
Printing resolutions	Maximum 1440 x 720 dpi		
Distance accuracy	Error of less than ± 0.3 % of distance traveled, or ± 0.012 in (0.3 mm), whichever is greater		
Interface	Ethernet (10 BASE-T / 100 BASE-TX, automatic switching)		
Power-saving function	Automatic sleep feature		
Power supply	Voltage and frequency	AC 100 to 240 V ± 10%, 50/60 Hz	
	Required power capacity	Maximum 1.8 A	
Power consumption	During operation	149 W	156 W
	Sleep mode	13 W	16.7 W
Outer Dimensions	47.4 (W) x 37.9 (D) x 21.7 (H) in. (1,202 (W) x 962 (D) x 549 (H) mm)	39.3 (W) x 34.2 (D) x 21.5 (H) in. (998 (W) x 867 (D) x 546 (H) mm)	
Weight	242.5 lbs. (100 kg)	187.4 lbs. (85 kg)	
Environment	Power on	Temperature: 68° to 90°F (20° to 32°C) (72°F [22°C] or more recommended) Humidity: 35 to 80% (no condensation)	
	Power off	Temperature: 41° to 104°F (5° to 40°C) / Humidity: 20 to 80% (no condensation)	
Included items	Power cord, adhesive sheet, software RIP (Roland VersaWorks), user documentation		

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Specifications subject to change. \* Continuous exclusive use of Roland inks during the first two years of ownership is required to qualify for the free second year of limited warranty coverage. Additional Terms and Conditions apply. \*\* Room ventilation and air filtration are required. Please consult the MSDS for more guidance on the proper use and ventilation of ECO-UV inks.

Imagine. 