

**LV-290 / LV-180**

Laser Engravers

**IMAGINE IT, MAKE IT**



 **Roland**

# IMAGINE IT, MAKE IT

INTRODUCING THE LV-290 AND LV-180 LASER ENGRAVERS

## LASER ENGRAVE AND CUTTING DEVICES FOR FABRICATION AND DECORATION

Boost your creativity and build your business with the Roland LV series laser engravers. Compact and really easy to use, the LV series cuts, engraves and marks on a huge range of materials to deliver impressive results at the touch of a button. Available in two sizes to fit your office or workshop and match your production needs.



### PRECISION CUTTING AND ENGRAVING

A non-contact CO<sub>2</sub> laser engraves, cuts and marks complex shapes and text with crisp edges at high speed, without creating cutting debris. Unlike conventional computerised engravers, with the LV series cut surfaces have a smooth, clean finish without burrs, eliminating the need for final touch-up work. With no engraving cutters to break or wear out, the laser always maintains a beautiful finish with no degradation in quality. The LV-290 is equipped with a CCD camera that supports positioning the material to accurately contour cut UV-printed graphics.

### IMPRESSIVE MEDIA COMPATIBILITY

The LV series is compatible with an extensive range of materials, from plastics to wood, leather, paper, cork and much more.

### SIMPLE, EVEN FOR BEGINNERS

1. The LV series is equipped with a range of functions which make it incredibly easy to accurately set up jobs, including a laser pointer to set the XY zero point and automatic height setting.
2. A simple and intuitive control panel navigates smoothly and quickly to the function you want to use.
3. The LV series comes standard with a Windows driver that can output directly from graphics software such as Adobe® Illustrator® and CorelDRAW®. You can set and save the optimal output parameters according to the materials and type of data.

### DESIGNED WITH SAFETY FIRST

The LV series is Class 1-compliant under the "IEC60825-1" international standard for laser devices. The enclosed design prevents laser light from bleeding outside. If the cover is opened during processing, the safety interlock mechanism automatically halts laser activation. LED lighting illuminates the work area, allowing you to visually check whether processing is being performed safely and properly.

# TWO TECHNOLOGIES, ENDLESS POSSIBILITIES

PAIR YOUR LASER ENGRAVER WITH A VersaUV LEF2 FLATBED PRINTER FOR A PROFITABLE NEW WORLD OF CREATIVE OPPORTUNITIES

With the VersaUV LEF2 series UV-LED printers, you can print amazingly photo-realistic colour, textures and simulated 3D embossing as well as gloss and matt finishes on objects and media up to 100 mm thick. When combined with the LV laser engraver, you have a powerful, integrated solution for creating premium-value custom items on demand. Quickly and easily produce jigs for items you want to print on your LEF to reduce set up times and ensure accurate print results.

LEF2-200 / LV-180



LEF2-300 / LV-290



### 3 REASONS TO COMBINE YOUR VersaUV LEF2 PRINTER WITH THE LV-290 / LV-180

- 1 ADD VALUE**  
Take a new approach to your current UV-printed product portfolio by adding cut and engrave effects or expand your offering into exciting and profitable new markets.
- 2 OPERATE MORE EFFICIENTLY**  
Take control of your production. Speed up turnaround times and reduce costs by bringing production in-house with LV-180/LV-290 laser engravers.
- 3 ENJOY A ONE-STOP SOLUTION**  
Benefit from the peace of mind of knowing both your UV-LED printer and laser engraver are backed by a single, trusted provider. Roland DG provides industry-leading on-going service and support to keep you up and running.

### TWO TECHNOLOGIES, ONE INTEGRATED WORKFLOW

It's easy to integrate the LV series laser engraver into your current print production workflow.

LEF2-300



Place pre-cut material up to 550 x 360 mm on the LEF2 bed. Set head height. LED alignment system ensures accurate registration.



LEF2 prints directly onto the substrate. White and gloss ink effects are applied where required. Registration marks are included for precise cutting alignment.

LV-290



Mark points are manually set, LV engraver detects registration points and cuts accurately around the complex shape.



Remove the cut items.



Add engraved text and decoration directly from design software via the plug-in Windows Driver.

### PRINT, CUT, ENGRAVE AND BUILD YOUR BUSINESS WITH HUNDREDS OF APPLICATIONS

Whether you're launching a new personalisation business, want to add value to existing product lines, or are a manufacturer looking to increase efficiency by bringing production in-house, Roland's LV laser engraving machines, paired with the VersaUV LEF2 series UV-LED printers add so much choice and product diversity. Add photos, art, text and textured effects onto existing products or cut out your own items for marking or engraving.



GIFTWARE



INTERIOR DÉCOR



PROMO ITEMS



TROPHIES AND PLAQUES



SIGNS AND DISPLAYS



STATIONERY ITEMS



**LV-290**



**LV-180**

Specifications		
Model	LV-290	LV-180
Work area	When with SmartVISION Pro CCD: 550 x 440 mm (217 x 173 in.) When without SmartVISION Pro CCD: 640 x 460 mm (25.2 x 18.1 in.) Extendable to 740 x 460 mm (29.1 x 18.1 in.)	458 x 305 mm (18 x 12 in.)
Maximum part size	762 (w) x 482.6 (l) x 165 (h) mm (30 x 19 x 6.5 in.)	505 (w) x 310 (l) x 68 (h) mm (19.9 x 12.2 x 2.7 in.)
Table size	790 x 530 mm (31.1 x 20.9 in.)	520 x 375 mm (20.4 x 14.7 in.)
Dimensions	1125 (w) x 720 (l) x 1005 (h) mm (44.3 x 28.3 x 39.6 in.)	740 (w) x 780 (l) x 410 (h) mm (29.1 x 30.7 x 16.1 in.)
Laser source	40W 10.6µm sealed CO <sub>2</sub> laser	30W 10.6µm sealed CO <sub>2</sub> laser
Cooling	Air-cooled. Operating environment temperature 15°-30°C (60° - 86°F)	(-)
Drive	Closed-loop DC Servo control	
Maximum motor speed	60 IPS	40 IPS
Throughput	1584 cm <sup>2</sup> /h (245.5 in. <sup>2</sup> /h)†	1137 cm <sup>2</sup> /h (176.3 in. <sup>2</sup> /h)
Throughput with SmartACT	1828.8 cm <sup>2</sup> /h (283.5 in. <sup>2</sup> /h)	(-)
Speed control	Adjustable from 0.1-100% of 60IPS (up to 16 colour-linked speed settings per job)	
Power control	Adjustable from 0 -100% (up to 16 colour-linked speed settings per job)	
Distance accuracy	0.254mm or 0.1% of move, whichever is greater	(-)
Z-Axis movement	Automatic	
Focus lens	Standard 2.0", optional 1.5", 2.5" and 4.0" available	Standard 2.0", optional 1.5" available
Resolution (dpi)	Available 125, 250, 300, 380, 500, 600, 760, 1000, 1500	
Computer interface	Full-speed USB 2.0 port, 10 Base-T Ethernet	
Memory buffer	32MB standard	
Compatible operating systems	Windows 7, 8.1, 10	
Display panel	4-line LCD panel showing current file name, total working time, laser power, engraving speed, file(s) loaded into memory buffer, setup and diagnostic menus	
Safety	Class I Laser Product Compliant with EN60825	
	Class II Laser Product Compliant with CDRH	
	2006/42/EC Machinery Directive Compliance	
Operation voltage	100-240VAC, 50-60Hz Auto Switching, max. 15A	100-240VAC, 50-60Hz Auto Switching, max. 12A
Fume extraction system	External exhaust system required, one 4" connection on the back of the machine	

Specifications, designs and dimensions listed may be subject to change without notice.

Caution- use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure

Options		
	Model	Description
Replacement Lens	FL15	1.5 in. Focus lens
	FL20	2.0 in. Focus lens
	FL25	2.5 in. Focus lens
	FL40	4.0 in. Focus lens
Replacement Table	HT180	Honeycomb table for LV180
	GT290	Aluminium grid cutting table for LV-290



**EXPAND YOUR PRINT BUSINESS WITH OUR BENCHTOP UV FLATBED PRINTER**

With the VersaUV LEF/LEF2 series UV-LED printers, you can print amazingly photo-realistic colour, textures and simulated 3D embossing as well as gloss and matt finishes on objects and media up to 100 mm thick. Combine your LV laser engraver with a VersaUV LEF/LEF2 printer to create premium value items such as custom giftware, personalised awards, or acrylic displays with attractive graphics.



Scan the QR code with your smartphone and watch the product in action.



Vaporised 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.

Roland DG reserves the right to make changes in specifications, materials or accessories without notice. Actual output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland DG dealer for details. No guarantee or warranty is implied other than expressly stated. Roland DG shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products. PANTONE® is the property of Pantone LLC. All other trademarks are the property of their respective owners. Reproduction or use of copyrighted material is governed by local, national, and international laws. Customers are responsible for observing all applicable laws and are liable for any infringement. Roland DG Corporation has licensed the MMP technology from the TPL Group.

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AUTHORISED DEALER:



19<sup>bis</sup> av René Duguay Trouin  
78960 Voisins le Bretonneux

Tel: + 33 (0)1 30 60 03 33  
Email: info@3dsolutions.fr  
www.3dsolutions.fr

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