

CUT, ENGRAVE, MARK AND MAKE WITH THE LV SERIES



You don't need to be a machine expert to cut-out, engrave or mark on hundreds of different materials. Make amazing things at the touch-of-a-button with the LV-290 or LV-180 laser engraving machines—cut wood, leather and fabric, and mark on metal, glass and other items with laser precision.



Precisely engrave or mark onto smart phone cases, keychains, glass ornaments, power banks and so much more.



Cut-out and engrave on acrylic, wood, cardboard and other materials—create products and prototypes for giftware, décor, models and more.



Mark designs on hard metal items like watches, tools, and rings or engrave onto soft goods like leather bags and fabric products.

Our Laser Engraver and UV Flatbed Printer Combo Opens Up Profitable New Business Possibilities



LV-180 / LEF2-200

LV series laser engravers are ideal for engraving or cutting shapes out of acrylic and other resins. With the VersaUV LEF/LEF2 series UV-LED printers, you can print amazingly photo-realistic color, textures and simulated 3D embossing as well as gloss and matte finishes. Combining the LV series' capabilities with that of the LEF/LEF2 series printers enables the creation of premium value items, such as custom giftware, personalised awards, or acrylic displays with attractive graphics. Jigs that support setting up items to be UV-printed efficiently can also be easily created by cutting out resin shapes for the number of items to be printed.



LV-290 / LEF2-300

Highlights



Choose between two models of different sizes and wattage to suit your business and material needs.



Cut complex shapes with crisp edges and mark and engrave with a smooth, clean finish.



An intuitive control panel simplifies operation and saves job data.



A safe, fully-enclosed operation with a non-contact CO₂ laser and Class 1 safety compliance.



Out-of-the-box personalisation— requires no special electrical set-up and works with standard wall sockets.



Simplified controls and operation make high-precision laser engraving an easier process.



Equipped with a CCD camera (LV-290 only) and a laser pointer for easy positioning and area finding.



Includes Windows driver that outputs directly from Adobe® Illustrator® and CorelDRAW® software.

Specifications

Model	LV-290	LV-180
Laser Source	40W CO ₂ Laser	30W CO ₂ Laser
Work area	When with SmartVISION Pro CCD: 550 x 440 mm (216 x 173 in.) When without SmartVISION Pro CCD: 640 x 460 mm (25.1 x 18.1 in.) Extendable to 740 x 460 mm (29.1 x 18.1 in.)	458 x 305 mm (18.0 x 12.0 in.)
Maximum part size	762 (w) x 482.6 (l) x 165 (h) mm (30.0 x 19.0 x 6.4 in.)	505 (w) x 309 (l) x 170 (h) mm (19.8 x 12.1 x 6.6 in.)
Table size	790 x 530 mm (31.1 x 20.8 in.)	520 x 375 mm (20.4 x 14.7 in.)
Dimensions	1125 (w) x 720 (l) x 1005 (h) mm (44.2 x 28.3 x 39.5 in.)	740 (w) x 780 (l) x 410 (h) mm (29.1 x 30.7 x 16.1 in.)
Weight	167 kg (369 lb.)	75 kg (166 lb.)
Cooling	Air-cooled. Operating environment temperature 15°-30°C (60° - 86°F)	
Drive	Closed-loop DC Servo control	
Maximum motor speed	When with SmartVISION Pro CCD: 1016 mm/s (40 in./s) When without SmartVISION Pro CCD: 1524 mm/s (60 in./s)	1016 mm/s (40 in./s)
Speed control	Adjustable from 0.1-100% (Up to 16 color-linked speed settings per job)	
Power control	Adjustable from 0-100% (UP to 16 color-linked power setting per job)	
Distance accuracy	0.254mm or 0.1% of move, whichever is greater	
Z-Axis movement	Automatic	
Focus lens	Standard 2.0 in., Optional 1.5 in., 2.5 in. & 4.0 in. available	Standard 2.0 in., Optional 1.5 in. 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 in. connection on the back of the machine	
Included items	Power cord, Ethernet cable, USB cable, user's guide, cleaning tissue, mirror cleaner, etc.	

Specifications are subject to change without prior notice.

Depending on the material being processed, harmful gases may be generated that could cause symptoms such as sore throat, headache, dizziness, etc.

Roland DG strongly recommends that you install a deodorising or local exhaust ventilation system in a well-ventilated room. For more information, please contact your local distributor or dealer.



Built to Build Your Business with Industry Best Warranty, Service and Support

Engineered to a higher standard, Roland provides the most dependable technology combined with superior support.

Your LV laser engraver is also supplied with a one year parts n' all warranty for added peace-of-mind.

For detailed features and specifications visit www.rolanddg.com.au/LV