

Bambu Lab R1

55 W CO_2 laser cutter and engraver

Enclosed laser cutter and engraver with a 55 W CO_2 laser (liquid-cooled glass tube), working area 600 mm × 300 mm, fume extraction, 2.4/5 GHz Wi-Fi, USB-C.

Botland index	EAN	GPSR category
BML-29690	**6937285517999**	**Equipment · laser device**

1 Product identification

Art. 19(c)

Product name	Bambu Lab R1 - 55 W CO_2 laser cutter and engraver
Type / model	Bambu Lab R1, model LM001-P (per the EU declaration of conformity), type designation on the rating plate
Identifiers	Botland index: **BML-29690** · EAN: **6937285517999**
Batch / serial no.	Serial number on the rating plate of the device and on the packaging. Also available in the device menu.
Country of origin	China

2 Manufacturer and responsible person in the EU

Art. 19(a) and (b)

MANUFACTURER	
Name	**Shenzhen Tuozhu Technology Co., Ltd.** (Bambu Lab brand)
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IMPORTER / AUTHORISED REPRESENTATIVE IN THE EU	
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SELLER IN POLAND - DISTRIBUTOR	
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Reports	Complaints, accidents and product safety issues

3 Key technical data

for information

Laser	CO_2 55 W, wavelength 9-11 µm (10.6 µm), measuring laser 450 nm, positioning laser 650 nm
Laser class	class 1 with the complete, closed housing (EN/IEC 60825-1), class 4 with the riser base or feeder
Working area	600 mm × 300 mm, material up to 710 mm × 380 mm, thickness up to 21 mm
Dimensions	1095 mm × 310 mm × 725 mm (W × H × D)
Weight	33.5 kg (device), approx. 40 kg in packaging (shop data)
Power supply	100-240 V AC, 50/60 Hz
Maximum power	780 W
Fume extraction	fan + 2 m duct, Ø 75 mm, to the outside of the building or to a purifier
Connectivity	Wi-Fi 2.4/5 GHz (802.11 a/b/g/n/ac/ax), USB-C
Operating conditions	10-30 °C, storage 5-35 °C (coolant, protect against freezing)

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ID: BL-BML-29690-EN-0325112026-311A8033

4 Warnings and safety information

Art. 19(d)


Read the manual


Laser radiation


Dangerous voltage


Hot surface

Warning and mandatory signs that may appear on the product and packaging. Full warnings are in the manual.

Read the entire manual, including the Laser Safety Manual, before using the product.

⚠ DANGER

- Laser radiation - 55 W CO_2 laser (infrared 9-11 µm, invisible). The R1 is a class 1 laser product only with the complete, closed housing. With the riser base or feeder it becomes a class 4 product. In that case use EN 207 safety glasses rated for 10 600 nm. Ordinary glasses that protect against visible or blue light do not protect against this radiation.
- High voltage - the CO_2 laser power supply operates at high voltage. Do not open the housing and do not touch the power supply or laser tube. Servicing only by authorised personnel.

⚠ WARNING

- Fire risk - do not leave the operating device unattended. Keep a CO_2 or ABC fire extinguisher at hand, do not extinguish with water. Remove material residues from the chamber.
- Prohibited materials - do not cut or engrave PVC, vinyl, PTFE and other chlorine-containing plastics, polystyrene, Tritan, silicone, carbon fibre or materials of unknown composition. Do not process mirror-finish metals (they reflect the beam).
- Fumes and smoke - the extraction must be installed and routed outdoors or to a purifier. Ensure the room is ventilated.

⚠ CAUTION

- Children and bystanders - the device is not intended for minors. Children, bystanders and animals must not be nearby while the device is operating (per manufacturer).
- Installation - keep free space around the device (min. 100 mm on each side) and a stable surface. The device weighs approx. 33.5 kg.

⚠ NOTICE

- Wi-Fi - the device contains a Wi-Fi module (2.4 GHz and 5 GHz). The 5150-5350 MHz range may only be used indoors.
- Cooling - fill the cooling system with coolant according to the manufacturer's manual (distilled water + antifreeze).

5 Documents, conformity and disposal

Downloadable documents	EU declaration of conformity (EN and PL) · Botland manual (PL, CZ, DE, EN) · Manufacturer's quick start guide (PL) · R1 Laser Safety Manual (EN)	
EU declaration of conformity	CE marked product. The full text of the EU declaration of conformity is available on the product page, tab “Dokumenty i GPSR” (Documents and GPSR): **Download the EU declaration of conformity** (botland.com.pl, search for BML-29690).	CE
Safety	Regulation (EU) 2023/988 (GPSR)	
Disposal	Crossed-out wheeled bin symbol: do not dispose of the used device with household waste. Take it to a collection point for waste electrical and electronic equipment (WEEE).	

This product is intended for users who have read the user manual and the safety rules.

Version v03.0 · 25.11.2026 · Sources: DoC, manual, botland.com.pl, bambulab.com. Translation of the Polish version.

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