

ELEGOO Centauri 2 3D Printer



Model: 50.201.025300

Manufacturer: ELEGOO

EAN: 6932704931738

Product Code: 1039721

R8,085

ELEGOO Centauri 2 3D Printer

The ELEGOO Centauri 2 3D printer is an FDM model featuring a CoreXY design, offering print speeds of up to 500 mm/s, maximum acceleration of 20,000 mm/s², and a build volume of 256 × 256 × 256 mm. The device is equipped with a nozzle that heats up to 350°C, a direct-drive Dual-Gear extruder, and a fully automatic calibration system with 121-point bed leveling. The rigid, die-cast frame enhances the stability of the entire structure, while the 5-inch touchscreen, Wi-Fi and USB connectivity, and print monitoring features simplify day-to-day operation of the device.

High-Speed Printing with the CoreXY System

The CoreXY design allows the printer to reach speeds of up to 500 mm/s, with a recommended print speed of 250 mm/s. The default acceleration of 10,000 mm/s² can be increased to a maximum of 20,000 mm/s², which helps reduce build times, especially for larger projects. The rigid, die-cast frame provides a stable base for high-speed moving components, which helps minimize the impact

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of vibrations on the print.

Nozzle reaching a temperature of 350°C

The Centauri 2 uses a 0.4 mm nozzle capable of operating at temperatures up to 350°C. The direct-drive Dual-Gear extruder ensures smooth and controlled filament feeding, which is also important when using flexible materials. The printer is primarily designed for 1.75 mm PLA, PETG, PLA-CF, and TPU filaments, making it suitable for creating prototypes, models, and various functional parts.

Full automatic calibration

The Full-Auto Calibration system minimizes the need for manual printer setup before starting new projects. The device uses 121-point automatic leveling to properly adjust the build plate's position and ensure optimal conditions for the first layer. The double-sided spring steel plate features a textured PEI surface and a surface designed for PLA, allowing you to select the appropriate side for the material being used.

Build volume: 256 × 256 × 256 mm

The 256 × 256 × 256 mm build volume allows you to print both larger models and several smaller parts in a single print job. The device offers a print accuracy of ± 0.1 mm and supports layer heights ranging from 0.1 to 0.4 mm, with 0.2 mm being the recommended value. This allows users to adjust project parameters based on the desired level of detail and the time required to complete the print.

Print Process Control

The Centauri 2 features a filament end sensor and a clog detection function, which allow the device to respond to specific issues related to material feeding. The printer also offers automatic filament unloading, fan self-diagnostics, and detection of malfunctions related to the print cooling fan. The power-loss resume feature is particularly useful for longer projects, as it allows you to continue an interrupted task.

Touchscreen, Wi-Fi, and User-Friendly Operation

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The printer is controlled via a 5-inch color capacitive touchscreen and runs on ELEGOO OS. Projects can be transferred via Wi-Fi or USB, and for model preparation, the Centauri 2 is compatible with ElegooSlicer, Orca, and Cura, and supports the STL, OBJ, 3MF, and STEP input formats. The manufacturer also includes the accessories needed to get started and maintain the device, including maintenance tools and a nozzle-cleaning needle, which allows you to mechanically clear the nozzle if it becomes clogged.

Included in the package

- ELEGOO Centauri 2 3D printer
- Touchscreen
- Filament spool holder
- Power cord
- Filament end sensor cable
- Nozzle cleaning needle
- Allen wrenches
- Screwdriver
- Filament sample
- Spare nozzle cleaning element
- User manual
- USB flash drive
- Scraper blade

Manufacturer	ELEGOO
Model	Centauri 2
Printing technology	FDM (Fused Deposition Modeling)
Design	CoreXY
Build volume	256 × 256 × 256 mm
Build plate size	260 × 260 mm
Maximum print speed	500 mm/s
Recommended print speed	250 mm/s

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Default acceleration	10,000 mm/s ²
Maximum acceleration	20,000 mm/s ²
Print accuracy	±0.1 mm
Layer height	0.1-0.4 mm
Recommended layer height	0.2 mm
Filament diameter	1.75 mm
Recommended filaments	PLA, PETG, PLA-CF, TPU
Extruder	Direct-drive Dual-Gear
Nozzle	Brass / hardened steel
Nozzle diameter	0.4 mm
Maximum nozzle temperature	350°C
Maximum build plate temperature	110°C at an ambient temperature of 25°C
Operating ambient temperature	5-40°C
Build plate	Double-sided spring steel plate, textured PEI + PLA-compatible surface
Leveling	Automatic, 121-point
Z-axis	3 lead screws and 3 linear guides
Motor control	Silent Drive on all axes
Full automatic calibration	Yes
Filament end sensor	Yes
Clog detection	Yes
Operating system	ELEGOO OS
Screen	5-inch color capacitive touchscreen
Connectivity	Wi-Fi, USB
Supported software	ElegooSlicer (recommended), Orca, Cura
Supported input formats	STL, OBJ, 3MF, STEP
Output format	G-code
Input voltage	100-240 V AC, 50/60 Hz

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Output voltage	24 V
Rated power	1,100 W at 220 V / 350 W at 110 V

Information about data generation: <https://dataact.innpro.pl/ELEGOO/6932704931738>, GPSR Link: https://psr-assets.innpro.pl/creative_technologies/sg_creative_technologies_3d_print.pdf, Gross weight: 17560, Box length: 46,50, Box width: 45,50, Box height: 54,00, Net weight: 15500