Body

Build Volume: 256 × 256 × 256 mm Printing Platform Size: 260 × 262 mm Product Size: 398 × 404 × 490 mm Package Size: 475 × 480 × 560 mm Net Weight: 17.5 kg Gross Weight: 21 kg

Tool Head

Reduction Ratio: 5.2

Heated Bed

Leveling Points: 121

Supported Filament

Filament Diameter: 1.75 mm

Filament Cutter: Yes

Electronics

Connectivity: USB, Wi-Fi

Nozzle Diameter: 0.4 mm (default)

Layer Thickness: 0.1-0.4 mm (Recommended 0.2 mm)

Extruder Type: Hardened Steel Dual-Gear Extruder

Build Plate: Double-Sided Flexible Magnetic Plate

Leveling Method: 4-Strain Gauge Automatic Leveling

Recommended: PLA, PETG, TPU, ABS, ASA, PLA-CF

Display: 4.3-inch Full-color Capacitive Touch Screen Motherboard: Dual-core High-speed Silent Motherboard

Electrical Requirement

Power: 1100 W@220 V, 350 W@110 V

Voltage: 100-240 V, 50/60 Hz

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Compatible: PETG-CF, ABS-CF, ASA-CF, PET-CF, PA-CF, PET, PC, PA

Printing Accuracy: ± 0.1 mm

Nozzle: 1

Temperature

Ambient Temperature: 5-40°C Max. Heated Bed Temperature: 110°C Max. Nozzle Temperature: 320°C

Sensors

Camera: Yes Filament Run-out Sensor: Yes Power-Loss Recovery: Yes

Software

Slicing Software: ELEGOO Slicer (Recommended) Supported File Formats: STL, OBJ, 3MF, STP Printing File Format: Gcode

Speed

Printing Speed: ≤ 500 mm/s Acceleration: 20000 mm/s²

Cooling

High Speed Model Cooling Fan: Closed Loop Control Auxiliary Part Cooling Fan: Closed Loop Control Control Board Fan: Closed Loop Control Chamber Temperature Regulator Fan: Closed Loop Control Air Filter: Nano-Mineral Crystal Filters

Contact Us

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ELEGCO

Centauri Carbon

Easy Prints, All Ways





and innovative technology







Solid Foundation For High-Speed Printing

Featuring a top frame and chassis crafted with integrated die-casting, along with four reinforced aluminum alloy pillars and stainless steel side panels.

Wide Material Capability

With the heated chamber, max 320 °C hardened steel nozzle tip, and hardened steel dual-gear extruder, the enclosed chamber enhances insulation for precise temperature control, and reduces internal stress, while improving the quality and strength of the prints.



Hardened Extruder **Features Filament Cutter**

The hardened extruder gears enhance durability and ensure stable filament extrusion, featureing an integrated filament cutter for automatic cutting and retraction of filament.



Cooling System

temperature to ensure details presented.



CoreXY Kinematics

Crafted with CoreXY Kinematics, Centauri Carbon greatly enhances printing speed, accuracy, and positioning precision.

Camera For Time-Lapse

Enable the time-lapse feature before printing to capture the entire process, watch live, and record every step of your print.





a single click.



Equipped with high speed model cooling fan, auxiliary part cooling fan, and external enclosure cooling fan, centauri carbon effectively regulates chamber and model

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Auto-Leveling & Auto Z-Axis Compensation

Featuring 4 pressure sensors, a proprietary algorithm and automatic Z-axis compensation during printing, the design simplifies leveling to

Applications

