



3D Printer Creality K2 Pro High-Speed FDM with Heated Chamber and AI Monitoring (300x300x300 mm)



Modelis: 1202080048

Gamintojas: CREALITY

EAN: 6977726810197

Prekės kodas: 352556

1,024.99€

Creality K2 Pro: The Professional High-Speed FDM 3D Printer

The Creality K2 Pro is a premium FDM 3D printer designed for highly demanding users, including engineers, professional creatives, and dedicated enthusiasts, who require exceptional quality,

Pateikta prekės informacija yra orientacinio pobūdžio. Techninės savybės, nuotraukos, aprašymai ir kaina gali keistis be išankstinio perspėjimo. Gamintojas ir pardavėjas neatsako už galimus duomenų neatitikimus ar tipografines klaidas. Prieš įsigyjant rekomenduojame pasitikrinti aktualią informaciją.

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reliability, and operational flexibility. This model excels by combining an ultra-high printing speed of up to 600 mm/s, an actively heated printing chamber, intelligent AI monitoring systems, and massive build volume of 300 × 300 × 300 mm. The K2 Pro provides a comprehensive, professional toolset for advanced additive manufacturing.

Key Professional Features:

- **Maximum Speed and Acceleration:** Achieves printing speeds up to 600 mm/sec and acceleration rates up to 20,000 mm/s², significantly reducing project turnaround time.
- **Large Build Volume:** Generous workspace measuring 300 × 300 × 300 mm, ideal for printing large parts or simultaneous batches of smaller models.
- **Active Heated Chamber:** Maintains a stable internal temperature up to 60°C, crucial for preventing warping and distortion when working with challenging engineering filaments like ABS, ASA, PPA, or PPS.
- **Intelligent AI Monitoring:** Dual AI cameras manage flow calibration, detect blockages via the nozzle camera, and monitor the entire printing process (e.g., detecting the "spaghetti effect") via the chamber camera.

Speed, Stability, and Precision

The K2 Pro maintains the highest reproduction quality even at blazing speeds. Movement is handled smoothly and precisely by FOC-controlled step-servo motors utilized on the X, Y, and extruder axes. This results in extremely quiet and stable operation. The printer's structure features a rigid frame made from durable aircraft-grade aluminum alloy, resisting vibration. Stability is further enhanced by a high-precision steel X-axis guide and a dual Z-axis system supported by four linear rods, ensuring consistent movement and exceptionally smooth print surfaces without layer shifting.

Advanced Extrusion System for Challenging Materials

The new direct extruder incorporates filament positioning sensors for accurate material flow and feed control. It uses hardened steel gears, making it fully capable of handling abrasive, carbon fiber-reinforced filaments. The high-flow hotend boasts a flow rate of 40 mm³/s, allowing compatibility with a vast range of materials. Maintenance is simplified due to the modular design and magnetic cover of the print head.

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Multi-Color and Multi-Material Capabilities

For complex visual projects, the K2 Pro supports multi-color and multi-material printing when equipped with the optional CFS (Creality Filament System) modules. A single CFS unit supports four colors, and linking four units enables printing with up to 16 colors or materials simultaneously. The system provides automatic filament recognition, moisture protection, and real-time environment display, minimizing material waste and interruption. **Note: CFS modules are sold separately.**

Ecosystem and Connectivity

The printer runs on the Creality OS software, offering full control and expert modes. The comprehensively redesigned Creality Print software provides over 40 ready-made presets, a 3MF multi-color mode, and LAN control. Users also benefit from the Creality Cloud platform, which offers access to a vast library of 3D models, cloud printing functionality, and an online community.

Comfort, Safety, and Automation

The K2 Pro includes several features designed for user convenience and safety. These include an integrated air purifier to remove volatile organic compounds (VOCs), an RFID reader for automatic filament recognition, and intelligent table leveling for quick setup. Connectivity options include Wi-Fi (2.4G) and Ethernet (RJ45), supported by a generous 32 GB EMMC internal memory for convenient project management.

CREALITY is a globally recognized manufacturer specializing in high-performance 3D printing solutions, known for innovations in high-speed FDM and advanced user-friendly technology.

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Creality K2 Pro 3D Printer

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Creality K2 Pro is a premium 3D printer created for the most demanding users - enthusiasts, engineers or creatives who want excellent quality, reliability and flexibility. It combines high printing speed (up to 600 mm/s), actively heated chamber, intelligent AI systems and the ability to work with several colors of filament simultaneously (after installing optional CFS modules). In addition, it offers automatic leveling and a large workspace - as large as 300 × 300 × 300 mm. All this creates a complete professional 3D printing tool.

Print in multiple colors and materials

The new CFS (Creality Filament System) module allows printing with several filaments simultaneously. With one unit, the printer supports four colors, and when four are connected, up to 16 colors or materials. The unit provides automatic filament recognition, precise management, auto-addition, moisture protection, as well as real-time temperature and humidity display. This allows the K2 Pro to create complex, colorful models without interruptions or material waste. Note: CFS modules are available for sale separately.

High printing speed and precision

The K2 Pro achieves speeds of up to 600 mm/sec and acceleration of up to 20,000 mm/sec², which noticeably reduces running time while maintaining the highest reproduction quality. Step-servo motors on the X/Y axes and in the extruder, controlled by the FOC system, are responsible for smooth and precise movement. As a result, the printer runs extremely quietly and stably, and the surface quality of the models remains excellent - even at high speeds.

Professional extrusion system

The new direct extruder with filament positioning sensors ensures accurate material flow and feed control. It uses hardened steel gears capable of working with carbon fiber-reinforced filaments. A hotend with a flow rate of 40 mm³/s enables printing from a wide range of materials, while the modular design and magnetic cover facilitate quick head removal and maintenance.

Stable construction and precision mechanics

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The printer's frame is made of durable aircraft-grade aluminum alloy, which guarantees rigidity and resistance to vibration. The steel X-axis guide features high precision and durability, and the dual Z-axis system supported by four linear rods ensures excellent stability of the work table movement without layer shifts. The result? Exceptionally smooth and consistent print surfaces!

Active heating of the working chamber

The K2 Pro maintains a stable temperature in the chamber (up to 60°C), which allows you to print from demanding filaments such as ABS, ASA, PPA or PPS without any problems. Heating the chamber eliminates the risk of distortion, and a small auxiliary fan improves layer adhesion, which is extremely important when creating technical and usable parts such as phone holders or cup holders.

Intelligent AI systems and automation

The K2 Pro is equipped with two AI cameras that monitor the printing process. A camera located on the nozzle regulates the flow of material in real time and detects potential blockages. The camera mounted in the chamber, on the other hand, controls the entire printing process, detects errors (for example, the spaghetti effect), checks the heating plate and enables the creation of time-lapse videos of the prints. Built-in automation systems also include intelligent table leveling. All this makes printing complex models easier and helps avoid the most common problems!

Extensive software ecosystem

Creality OS software provides full control over K2 Pro features, expert mode and the option to manage multiple filaments. And the completely redesigned Creality Print software offers more than 40 ready-made presets tailored to different materials, a 3MF multi-color mode, and LAN control of different printers. Also at your disposal is the Creality Cloud platform on your computer or smartphone, which gives you access to an extensive library of 3D models, cloud printing and an online community.

Comfort and safety of use

The printer is equipped with an air purifier that removes volatile organic compounds (VOCs) and has a built-in RFID reader for recognizing filaments. In addition, it supports Wi-Fi and Ethernet

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connectivity for fast data transfer. Also noteworthy is the 32GB internal memory, which allows for convenient management of large projects.

Large working area and simple operation

The working area of 300 × 300 × 300 mm allows you to print larger items or many smaller models at the same time. What's more, the printer is ready to use almost immediately after unpacking and installing the touchscreen. Just use the short guide and automatic calibration to quickly move on to creating a variety of projects!

Manufacturer	Creality
Name	K2 Pro
Model	1202080048
Working field	300 × 300 × 300 mm
Device dimensions	445 × 477 × 573 mm
Weight	23.7 kg
Maximum printing speed	600 mm/sec
Maximum acceleration	20,000 mm/s ²
Maximum nozzle temperature	300°C
Maximum table temperature	110°C
Maximum chamber temperature	60°C
Type of motors	Step-servo (X/Y axes and extruder)
Belt tensioning	Manual
Auxiliary fan	1
Air filter	1
Automatic leveling	Yes
Flow calibration	Yes, via AI camera on nozzle
Chamber camera	1x 720p/30FPS

RFID reader	Yes
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Audio alarms	Yes
Touch screen	4 inches
Connectivity	Wi-Fi (2.4G) / Ethernet (RJ45) / USB / Creality 485 port
Internal memory	32 GB EMMC
Rated power of the hotend	70 W
Software	Creality OS / Creality Print / Creality Cloud

Printing speed (mm/s): 600, Printer type: FDM , Information about data generation:

<https://dataact.innpro.pl/creality/6977726810197>, Gross weight: 32000, Box length: 60,80, Box width: 59,00, Box height: 63,50, Net weight: 23700

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