K1 MAX AI FAST 3D PRINTER BY CREALITY

SKU	Option	Part #	Price
904728		K1-MAX	$1499

Model	
Type	3D Printer
SKU	904728
Part Number	K1-MAX
Brand	Creality
Technical - Main	
Power Source	240V 50Hz Single Phase
Motor Power (Output)	1000W
Dimensions	
Product Length	435 mm
Product Width	462 mm
Product Height	526 mm
Product Weight (Net Weight)	18 kg
Connectivity	
Wifi Enabled	✔
Country of Origin	
Manufactured in	China
Features	
Standard Inclusions	Nozzle Diameter: 0.4mmï¼(compatible with 0.6/0.8mmï¼), Build Surface: Flexible build plate, Leveling Mode: Hands-free auto leveling, File Transfer: USB drive, Ethernet, WiFi, Display Screen: 4.3" color touch screen, AI Camera: Yes, AI LiDAR: Yes, Power Loss Recovery: Yes, Filament Runout Sensor: Yes, Input Shaping: Yes, Air Purifier: Yes, Lighting Kit: Yes, Sleep Mode: Yes,
Packaging + Shipping	
Shipping Length	508 mm
Shipping Width	508 mm
Shipping Height	608 mm
Shipping Weight (Gross)	23.0 kg
Shipping Notes	This product is classified as 'Heavy / Oversized' and generally does not qualify for FREE SHIPPING.
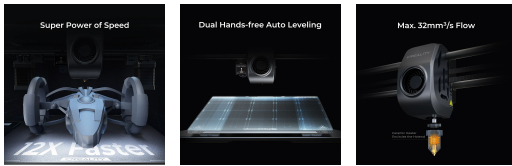
K1 Max, with its stunning speed, will kindle people's zeal for 3D printing. A fast speed cuts printing time and raises efficiency. It uses less energy for the same output, thus more eco-friendly. Most importantly, it focuses on the pure joy of creation.

Features
Print speed of 600mm/s and print volume of 300x300x300mm.

With AI functions, including an AI camera and AI-assisted LiDAR, automatically monitors and optimizes the printing process
High temperatures of up to 300℃ and integrates an air purifier for a healthier work environment
Print jobs can be monitored and controlled via WLAN
Hands-free fully automatic bed levelling and calibration
One-button automatic detection and immediate reporting of any machine faults

Fully assembled and ready for immediate use

1μm Lidar resolution

Model Cooling by Dual Fans

12X Faster, Defy Limitations

K1 Max reaches 600mm/s* in only 0.03s based on 20000mm/s² acceleration. It can be as productive as several 3D printers together.

* The 600mm/s speed is achieved at Creality Lab in the Surface Mode with 0.1mm layer height.

* The typical speed is 300mm/s. The travel speed is 800mm/s.

Nimble Setup for Speed

K1 Max combines the nimble Core XY with a 190g lightweight printhead for less motion inertia. Agile and swift.

Max. 32mm³/s Flow

New ceramic heater, encircling the entire hotend. It heats to 200℃ in 40s and melts the filament instantly. Dual-gear direct extruder, delivering strong extrusion force. Hotend with a titanium alloy heatbreak and a hardened steel nozzle, working with flying colours in up to 300℃. Ceramic Heater Encircles the Hotend.

Model Cooling by Dual Fans

A large fan on the printhead with air ducts cools the model directly. An 18W auxiliary fan in the build chamber enhances the cooling effect, too.

The model hardens before any stringing and warping could happen. It allows support-free bridges and overhangs.

Max Capacity, Efficient Use of Space

K1 Max boasts a 300x300x300mm large build volume, great for rapid prototyping or design verification. It also offers a high build volume to printer size ratio of 25.5%. K1 Max is the most size-efficient FDM 3D printer in its class.

AI LiDAR Takes Care of the First Layer

Still worried about the first layer? Just leave it all to the AI LiDAR of K1 Max. The 1 μm resolution LiDAR will scan the first layer on its own. It will pause printing and tell you immediately if something goes wrong.

AI Camera Keeps a Keen Watch

K1 Max uses an AI camera to watch over spaghetti failure, foreign objects, debris, etc. It will alert you when an error occurs. It also supports real-time monitoring and creates time-lapses for sharing.

Foreign Object Detection

Failure Detection

Real-time Monitoring

Smart System, Unbridled Performance

K1 Max adopts the smart Creality OS. It features a straightforward UI, and syncs data and commands with PC, phone, Cloud, and add-on modules. The snappy dual-core 1.2GHz CPU powers high-speed printing with ease. The 8G ROM stores up to 400 model files and enables quick writing and reading.

Intelligent Aid to Your Print Farm

Once K1 Max is connected via WiFi or RJ45 Ethernet port to the LAN or Internet, you can monitor and control the printing from a PC or phone with Creality Print software or Creality Cloud. Even better, when many K1 Max printers are online,

they can be easily clustered or grouped for volume production.

Rigid Frame, Stable Quality

The frame of K1 Max is built with rigid die-cast aluminum alloy parts. It enables steady printing at high speed. And the print quality is excellent the whole time.

Delicate Texture without Z-banding

The upgraded Z-axis with more accurate positioning reduces Z-banding effectively. The texture has never been so subtle.

Smooth Surface by Solving Ringing

A G-sensor in the printhead measures the resonance frequencies of high-speed printing, and auto-tune the printer to mitigate it. No more ghosting or ringing on the print. G-sensor ON G-sensor OFF.

Better Feeding with Motion

Advance The motion advance function will deliver the optimal feeding flow. It reduces blobs and oozes effectively.

Dual Hands-free Auto Leveling

Strain sensors in the heatbed generate an accurate levelling mesh for auto compensation.

Quick-heating Heatbed

The aluminum alloy heatbed spreads heat uniformly and quickly. It reaches 60℃ in only 90s and keeps the same heating speed under 220V and 110V.

Self-test with One Tap

Give a tap, and K1 Max will self-test the extruder, heatbed, camera, fan, leveling, G-sensor, etc. Any abnormality will prompt on the display. So, users can proceed confidently without hitch.

Flexible Build Plate

Sticky and heat-resistant, it works well with a wide range of filaments. The finely frosted surface makes the model bottom fine and smooth. Bendable for quick print removal.

Effective Air Purifier

The built-in air filters will purify unhealthy compounds generated during printing, making printing much more pleasant.

Specifications

Printing Technology: FDM

Build Volume: 300*300*300mm

Printing Speed: ≤600mm/s

Acceleration: ≤20000mm/s²

Printing Accuracy: 100±0.1mm

Layer Height: 0.1-0.35mm

Extruder: Dual-gear direct drive extruder

Filament Diameter: 1.75mm

Nozzle Diameter: 0.4mm (compatible with 0.6/0.8mm)

Nozzle Temperature: ≤300℃

Heatbed Temperature: ≤100℃

Build Surface: Flexible build plate

Leveling Mode: Hands-free auto leveling

File Transfer: USB drive, Ethernet, WiFi

Display Screen: 4.3" color touch screen

AI Camera: Yes

AI LiDAR: Yes

Power Loss Recovery: Yes

Filament Runout Sensor: Yes

Input Shaping: Yes

Air Purifier: Yes

Lighting Kit: Yes

Sleep Mode: Yes

Supported Filaments: PLA, PETG, PET, TPU, PA, ABS, ASA, PC,
PLA-CF, PA-CF, PET-CF
Printable File Format: G-Code
Slicing Software: Creality Print; compatible with Cura,
Simplify3D, PrusaSlicer
File Formats for Slicing: STL, OBJ, AMF
UI Languages: English, Spanish, German, French, Russian,
Portuguese, Italian, Turkish, Japanese, Chinese