



# LONGER LK10 Plus 3D Printer



Modelis: LK10 Plus

Gamintojas: LONGER

EAN: 5905156103481

Prekės kodas: 560996

## 471.98€

### Longer LK10 Plus 3D Printer

The Longer LK10 Plus is a 3D printer designed for fast and convenient project completion. It offers a build volume of  $320 \times 320 \times 400$  mm, print speeds of up to 500 mm/s, and a Direct Drive extruder with a flow rate of up to  $25 \text{ mm}^3/\text{s}$ . A nozzle reaching  $300^\circ\text{C}$  and a heated bed up to  $110^\circ\text{C}$  allow for the use of PLA, PETG, ABS, ASA, and TPU filaments. Automatic leveling, Auto Z-Offset, filament end detection, and resume-on-power-loss features make operation more convenient. Wi-Fi, LAN, and USB connectivity, along with compatibility with Windows and Mac, allow for convenient print management.

### Fast Direct Drive Extruder

The printer is equipped with a Direct Drive extruder featuring a precision gear mechanism that ensures smooth material feeding even during high-speed printing. The High-Flow Hotend system achieves a volumetric flow rate of up to  $25 \text{ mm}^3/\text{s}$ , allowing for high-quality models even with more demanding projects. A maximum print speed of up to 500 mm/s results in shorter print times without

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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sacrificing detail.

## **Less vibration and ghosting**

The Klipper software, featuring the Vibration Calibration function, ensures smooth operation of the device. Input Shaping technology reduces ghosting and wall waviness, ensuring models maintain high accuracy even at high speeds. This solution results in a more aesthetically pleasing appearance of prints and greater detail consistency.

## **Wide range of supported materials**

A nozzle temperature of up to 300°C and a heated build plate reaching 110°C allow for printing with many popular 1.75 mm filaments. The printer supports PLA, PETG, ABS, ASA, and TPU, making it suitable for both simple decorative models and more durable functional parts. The adjustable layer height from 0.1 to 0.4 mm allows you to tailor the print quality and speed to a specific project.

## **Automatic Calibration**

The LK10 Plus features automatic leveling of the heated build plate and an Auto Z-Offset function that automatically sets the correct distance between the nozzle and the build surface. This solution reduces the need for manual configuration and allows you to start printing faster. The “load filament, click print, and walk away” operation system makes the device convenient even for less advanced users.

## **Sensorless Homing**

The printer uses a Sensorless Homing system that performs X and Y axis homing without the use of traditional mechanical limit switches. Stepper motors detect resistance and automatically determine the axis position, which simplifies the device’s design and reduces the number of wear-prone components. This solution also contributes to more stable operation of the entire system.

## **Safe Printing**

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The power-outage resume feature allows printing to continue from the last saved layer, reducing the risk of losing hours of work. The filament end sensor monitors material flow in real time and stops printing when an empty spool is detected. The Object Exclusion feature allows you to cancel the printing of a single defective model without interrupting work on the remaining parts on the build plate.

## Easy operation and connectivity

An intuitive, multilingual touchscreen simplifies daily operation and provides quick access to settings. The printer supports Wi-Fi, LAN, and USB flash drive connections, allowing you to conveniently transfer files and manage prints in various ways. Compatibility with Windows and Mac systems, along with support for STL, OBJ, and STEP formats, enables convenient model preparation in popular software and the OrcaSlicer slicer.

## Metal Construction

The metal frame increases structural rigidity and reduces vibrations during high-speed printing, which positively impacts print quality. The printer offers a large build volume of 320 × 320 × 400 mm, making it suitable for larger models and printing multiple parts simultaneously.

## Dual Z-axis

A dual Z-axis system with two independent motors and trapezoidal screws ensures smooth head movement. This solution improves print precision, enhances dimensional repeatability of models, and reduces the risk of the X-axis arm sagging during prolonged operation.

## Included in the set

- Upper frame module
- Base unit
- Touchscreen
- Filament holder
- Power cable
- Test filament

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- Flathead screwdriver
- Allen wrenches
- USB flash drive
- Cable ties
- M5x45 screws (4 pieces)
- M4x20 screws (4 pieces)
- M5x20 screws (2 pieces)
- M5x10 screws (2 pieces)
- M3x6 screws (2 pieces)
- Flat washers
- Stabilizing bracket

|                             |                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------|
| <b>Manufacturer</b>         | Longer                                                                                      |
| <b>Model</b>                | LK10 Plus                                                                                   |
| <b>Printing technology</b>  | FDM                                                                                         |
| <b>Build volume</b>         | 320 × 320 × 400 mm                                                                          |
| <b>Frame construction</b>   | Metal, gantry-style structure reinforced with double diagonal stabilizing profiles (braces) |
| <b>Build plate</b>          | Gold PEI plate                                                                              |
| <b>Z-axis configuration</b> | Dual Z-axis (two independent motors and trapezoidal screws)                                 |
| <b>Maximum print speed</b>  | Up to 500 mm/s                                                                              |
| <b>Print accuracy</b>       | 100±0.1 mm                                                                                  |
| <b>Layer thickness</b>      | 0.1-0.4 mm                                                                                  |
| <b>Nozzle diameter</b>      | 0.4 mm                                                                                      |
| <b>Number of nozzles</b>    | 1                                                                                           |
| <b>Extruder type</b>        | Direct Drive Extruder                                                                       |
| <b>High-Flow Hotend</b>     | Maximum volumetric flow rate                                                                |

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|-----------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Up to 25 mm<sup>3</sup>/s</b>                                                                                | Maximum nozzle temperature   |
| <b>Up to 300°C</b>                                                                                              | Maximum bed temperature      |
| <b>Up to 110°C</b>                                                                                              | Filament diameter            |
| <b>1.75 mm</b>                                                                                                  | Supported materials          |
| <b>PLA, PETG, ABS, ASA, TPU, etc.</b>                                                                           | Firmware                     |
| <b>Klipper</b>                                                                                                  | Vibration reduction feature  |
| <b>Vibration Calibration</b>                                                                                    | Bed leveling                 |
| <b>Automatic</b>                                                                                                | Nozzle offset adjustment     |
| <b>Auto Z-Offset</b>                                                                                            | Axis homing                  |
| <b>Sensorless Homing for X and Y axes</b>                                                                       | Power-off resume             |
| <b>Power-off resume</b>                                                                                         | Filament end sensor          |
| <b>Filament break detection</b>                                                                                 | Object exclusion             |
| <b>Object exclusion (up to 32 parts on a single platform)</b>                                                   | Z-axis configuration         |
| <b>Dual Z-axis</b>                                                                                              | User interface               |
| <b>Touchscreen</b>                                                                                              | Connectivity                 |
| <b>USB Drive, LAN, Wi-Fi</b>                                                                                    | Default Slicer               |
| <b>OrcaSlicer</b>                                                                                               | Supported file formats       |
| <b>STL, OBJ, STEP</b>                                                                                           | Compatible operating systems |
| <b>Windows, MAC, etc.</b>                                                                                       | Menu languages               |
| <b>Simplified Chinese, Traditional Chinese, English, German, Italian, Japanese, French, Portuguese, Spanish</b> | Power Supply                 |
| <b>100-120V/220-240V, 50/60 Hz (manual voltage selector switch for AC 115V / 230V; default 230V)</b>            | Operating environment        |
| <b>Temperature: 5°C-40°C (optimal 25°C), Humidity: 20%-50%</b>                                                  | Safety requirements          |
| <b>The device must be grounded during operation</b>                                                             | Frame construction           |
| <b>Metal construction</b>                                                                                       | Work platform                |
| <b>Gold PEI plate</b>                                                                                           | Printer dimensions           |

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**423x437x492 mm**

Package dimensions

**515x495x280 mm**

Device weight

**8.3 kg**

Weight with packaging

GPSR Link: <https://psr->

[assets.innpro.pl/creative\\_technologies/sg\\_creative\\_technologies\\_laser\\_engravers\\_and\\_cutters.pdf](https://psr-assets.innpro.pl/creative_technologies/sg_creative_technologies_laser_engravers_and_cutters.pdf),

Gross weight: 14250, Net weight: 13000, Box length: 64,50, Box width: 26,50, Box height: 58,00,

PPWR: <https://ppwr.innpro.pl/longer>

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