



# ELEGOO

## Neptune 4 Pro

### 3D Printer



Model: 50.201.013300

Manufacturer: ELEGOO

EAN: 6976021763573

Product Code: 806871

# R6,439

## ELEGOO Neptune 4 Pro 3D Printer

The ELEGOO Neptune 4 Pro is a state-of-the-art FDM (Fused Deposition Modeling) 3D printer that combines high speed, precision and robust design. Based on the Klipper motherboard, it offers a large working area of 225 × 225 × 265 mm and printing temperatures of up to 300°C, and allows you to use a wide range of filaments - from PLA (Polylactic Acid, poly lactic acid) and PETG (Polyethylene Terephthalate Glycol, modified Polyethylene Terephthalate Glycol) to ABS (Acrylonitrile Butadiene Styrene, an acrylonitrile-butadiene-styrene copolymer), TPU (Thermoplastic Polyurethane) or nylon. With a powerful extruder and automatic 121-point leveling, the Neptune 4 Pro can handle both rapid prototyping and long, demanding technical prints.

## Fast printing without compromise

The printer reaches a maximum speed of 500 mm/s, with a recommended 250 mm/s guaranteeing excellent quality with short turnaround times. Backed by the Klipper motherboard, a powerful ARM

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(Advanced RISC Machine, an advanced RISC architecture) 64-bit 1.5G quad-core processor and features such as Input Shaping and Pressure Advance - it provides an exceptionally smooth model surface and even filament stamping. It is an excellent choice for those who expect not only accuracy, but also real time savings.

## **Efficient cooling system, thoughtful table design**

Two double-sided 4015 fans and four 4020 fans ensure effective heat dissipation and cooling of printed models. What's more, the device's heating table is divided into two segments with different powers - 150 W and 100 W. This solution guarantees lower power consumption and protects against overheating, resulting in more stable and safer operation.

## **Improved hotend and efficient extruder**

The Neptune 4 Pro is equipped with a high-performance direct-type extruder with dual gears, which ensures precise and stable filament feeding, regardless of the type. In addition, the hotend with an improved design uses a copper-titanium thermal tube and a nozzle capable of operating at 300°C. This solution allows printing from a wide range of materials, including those requiring higher temperatures and better flow.

## **Guidance stability and structural rigidity**

The printer is equipped with metal X- and Y-axis guides, which, combined with dual U-shaped ball bearings, ensure smooth, precise and stable guidance of the print head. In addition, a reinforced, widened Y-axis profile increases the rigidity of the entire structure, resulting in higher print quality, especially at high speeds.

## **Automatic leveling and flexible platform**

The printer uses automatic table leveling at as many as 121 points (11×11 grid), which ensures perfect adhesion and a perfectly aligned first layer. In addition, the user can use the knobs underneath the work platform to manually adjust the level - for even greater accuracy and full control over the printing process.

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## Intuitive operation and flexible communication

A detachable 4.3" touchscreen allows you to conveniently preview your model and stop printing. In addition, the printer allows you to transfer files via USB (Universal Serial Bus, a universal connector for data and power) or LAN (Local Area Network, a local computer network).

## Additional capabilities

With a filament sensor and a resume function after an interruption, you can be sure that printing will not fail, even if something unexpected happens. LED (Light Emitting Diode) lighting at the nozzle makes it easy to see details up close, and an additional LED strip provides even illumination throughout the work area.

## More space for your ideas

The Neptune 4 PRO offers a workspace of 225 × 225 × 265 mm, allowing you to create both small prototypes and more elaborate models. This volume gives you a lot of design freedom without having to split models into parts.

|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| Manufacturer              | ELEGOO                                                   |
| Model                     | M6-512                                                   |
| Maximum printing speed    | 500 mm/s                                                 |
| X, Y axis                 | All-metal axis guides with double U-shaped ball bearings |
| Pressure Advance function | Yes                                                      |
| Input Shaping function    | Yes                                                      |
| Heating table             | 100 W + 150 W, intelligently zone heated                 |
| Platform leveling         | Automatic at 121 points + assisted leveling              |
| Working volume            | 225 × 225 × 265 mm                                       |
| Extruder type             | Improved direct-type extruder with twin gears (291 g)    |
| Fan type                  | 4015 fans with ball bearings                             |

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**Max speed of fans** 10,000 rpm

**Max. nozzle temperature** Up to 300°C

**Firmware** Klipper

**File transfer method** LAN + USB

**Supported materials** PLA / ABS / TPU / PETG / Nylon

Printing speed (mm/h): 500, Printer type: FDM , Gross weight: 11270, Net weight: 8900, Box length: 61,00, Box width: 49,50, Box height: 24,50, Information about data generation:

<https://dataact.innpro.pl/elegoo/6976021763573>, test: Drukarka 3D ELEGOO Neptune 4 Pro, GPSR

Link: [https://psr-assets.innpro.pl/creative\\_technologies/sg\\_creative\\_technologies\\_3d\\_print.pdf](https://psr-assets.innpro.pl/creative_technologies/sg_creative_technologies_3d_print.pdf)

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