

# **Ultimaker 3 Extended**







#### **Dual Extrusion with Ultimaker Precision**

With dual extrusion, the new Ultimaker 3 can easily tackle even the most complicated or intricate geometries with dissolvable support materials. You can also print objects with dual colors or dual materials. The Ultimaker engineering team approached dual extrusion by introducing a unique, automatic nozzle-lifting mechanism. While one nozzle is emitting material, the other nozzle is kept clear of the print job. You can expect far higher quality, much more professional finishes with every print job





# **Swappable Print Cores**

The Ultimaker 3 introduces smart, swappable print cores that can be switched in a matter of seconds. For additional safety and monitoring, the print cores contain LED indicator lights. Print cores will report when a nozzle is hot or cold, or when when an incorrect material is loaded.

New units ship with two "build cores" and one "support core" that is optimized for 3D printing with PVA for dissolvable supports.





# **Active Leveling and Increased Print Bed Rigidity**

A capacitive sensor in the print head will detect even the slightest tilt angle in the print bed. The Ultimaker 3 automatically compensates by adjusting the z-height of the first layers. This leads to far more accurate leveling and better build plate adhesion.

## **Newly-refined Build Plate Design**

The Ultimaker 3 features a new build plate design, that's twice as rigid, and 20% lighter. This leads to reduced vibrations, and increased print quality. Also, like earlier-model Ultimakers, the glass plate is easily removed for handling jobs and cleaning. And the bed can still be heated to 100 Celsius for maximum print adhesion.





#### **Geared Feeders and Increased Cooling**

Geared feeders exert more force on the filament, and also eliminate heat exposure from the motor. Change your 3D printing materials with ease, select the correct pressure with a push on a button, and use the lever function to manually insert or remove a filament.

## **New and Improved Cooling System**

The Ultimaker 3 comes with new fans, which are encased in newly designed fan shrouds. The new cooling system creates significant pressure build up, which provides better cooling for your prints. Expect improvements in the quality of 3D prints with "bridging", and reduced noise levels.



# **Ultimaker 3 Extended Specifications**

#### Printer and printing properties

Technology Fused Deposition Modeling (FDM)

Print head Dual extrusion print head with a unique auto-nozzle

lifting system and swappable print cores

Build volume Left nozzle: 215 x 215 x 300 mm

Right nozzle: 215 x 215 x 300 mm Dual material: 197 x 215 x 300 mm

Filament diameter 2.85 mm

Layer resolution **0.4 mm nozzle: 20 - 200 micron** 

XYZ accuracy **12.5, 12.5, 2.5 micron** 

Print head travel speed 30 - 300 mm/s

Build speed 0.40 nozzle: up to 16 mm³/s
Build plate Heated glass build plate

Build plate temperature 20 - 100 °C
Build plate leveling Active leveling

Supported materials Nylon, PLA, ABS, CPE, PVA

Nozzle diameter

Nozzle temperature

Nozzle heat up time

0.4 mm

180 - 280 °C

< 2 min

Build plate heat up time < 4 min (20 - > 60 °C)

Operating sound 50 dBA

Material recognition Material recognition with NFC scanner

Connectivity Wi-Fi, LAN, USB port

Monitoringt Live camera

# Physical dimensions

Dimensions 342 x 380 x 489 mm

Nett weight 10,6 kg Shipping weight 15,5 kg

Shipping box dimensions 390 x 400 x 680 mm

# Power requirements

Input 100 - 240V

4A, 50-60Hz 221 W max.

Output 24 V DC, 9.2 A

# Ambient conditions

Operating ambient temperature 15 - 32 °C, 10 - 90% RH non condensing

See material specifications for optimal conditions

Nonoperating temperature 0 - 32 °C

# Software

Supplied software Cura, our free print preparation software

Supported OS macOS, Windows and Linux

File types STL, OBJ and 3MF



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