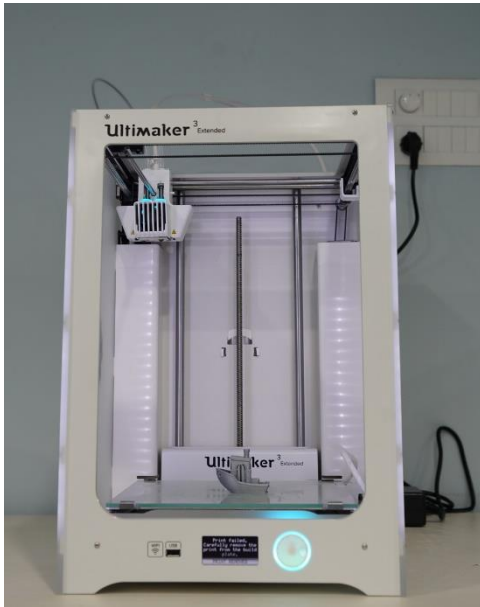


Shri Ramdeobaba College of Engineering and Management
Center for Invention Innovation incubation & Training
RCOEM-TATA-CIIT, Nagpur
Innovation Design and Incubation Center of Excellence
Fused Filament Fabrication (FFF) 3-D Printer



Technical Specifications:

Make: Ultimaker 3 Extended, dual extrusion with open filament system.



Technology: Fused Filament Fabrication
Print head: Dual nozzle,
Nozzle replacement: Easily swappable print cores
Filament diameter: 2.85 mm
Step accuracy X, Y, Z: 12.5, 12.5, 2.5 micron
Print head travel speed: 30 - 300 mm/s
Material flow speed: 0.40: up to 16mm³/s
Build plate: Heated glass bed
Nozzle diameter: 0.4mm
Nozzle temperature: 180 - 280 °C
Build plate temperature: 20 - 100 °C
Nozzle heat up time: < 2 min
Build plate heat up time: < 4 min (20 - > 60 °C)
Average operation noise: 50 dBA
Nozzle replacement: Easily swappable printcores
Filament storage: Open, reel holder incl guide for 2 spools of 750g
Filament Detection: NFC automatic material detection
Connectivity: Wifi, ethernet, stand alone via USB-drive
Bed levelling: Active leveling
Camera: Yes
Printer size: 342 x 380 x 489 mm
Build volume: 215 x 215 x 300 mm (left or right nozzle)
197 x 215 x 300 mm (dual extrusion)
Nozzle Dia./Layer resolution :
0.25 mm nozzle: 150 to 60 microns
0.4 mm nozzle: 200 to 20 microns
0.8 mm nozzle: 600 to 20 microns
Supported materials: PLA, Tough PLA, Nylon, ABS, CPE, CPE+, PC, TPU 95A, PP, PVA, Breakaway
Nozzle temperature 180 °C to 280 °C
Build plate 20 to 100 °C heated glass build plate with active leveling
Connectivity Wi-Fi, LAN, or USB port

Printer dimensions Max:
49,3 x 33,8 x 68,8 cm
Printer dimensions Min:
35,7 x 33,8 x 48,8 cm
Nett weight 11,3 kg
Power Input:100 - 240V; 4A, 50-60Hz;
221 W max.
Power Output: 24 V DC, 9.2 A
Ambient operating conditions:
15 - 32 °C, 10 - 90% RH non-condensing
Storage conditions printer: 0 - 32 °C
Supplied software:
Cura 4.8 - Official Ultimaker Software
Supported OS: Windows, Mac, Linux
File types: Print direct from Cura via
Network, Standalone or USB drive
printing



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<https://forms.gle/4k7bFiGFeh9vg8WD8>

