

# Ultimaker3 Extended Dual FDM 3D Printer



<b>Ultimaker3 Extended Dual FDM 3D Printer</b>	
<b>Tool Type:</b> "FDM 3D printer"	
<b>Location:</b> "CNSI Innovations Workshop"	
<b>Supervisor</b>	<b>Tool Lead</b>
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<b>Description:</b> "FDM 3D Printer"	
<b>Manufacturer:</b> "Ultimaker"	

## About

The Ultimaker 3 extended is a filament fed fusion deposition 3D printer capable of simultaneously printing two different plastics at once. Typically the printer is set up with ABS as a build material, and PVA as a solvable support material.

## Training

[FDM Printer SOP](#)  
[Ultimaker 3 Quick Review](#)

## Detailed Specifications

- Build Volume: 215 x 215 x 300 mm
  - Filament diameter: 2.85 mm
  - layer resolution: 60 to 600 microns depending on print head (see Specifications documentation page 11)
  - XYZ accuracy: 12.5, 12.5, 2.5 microns
  - Build plate temperature: 20-100 °C
  - Nozzle temperature: 80 - 100 °C
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## Safety Concerns

- The print heads can be very hot - do not touch them with bare hands unless positive they are cool.
  - As with any automated machinery make sure that your body is clear of the moving parts to avoid injury.
  - The support removal tank for the F270 is filled with heated caustic chemicals that dissolve the support material. An apron, Gloves, and a face shield must be worn when inserting and removing parts or basket from tank.
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## Reference Documentation

### PVA Temps

Extruder: 220 C Bed: Whatever structural filament recommends

### ABS Temps

Extruder: 230 C Bed: 100 C

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