

## Additive Manufacturing Lab



## 3D PRINTER

**Make** : RAISE3D

**Model** : N2 Dual 3D Printer

### **Specifications:**

Technology	FDM
Build Volume	305 x 305 x 610 mm
Layer Resolution	10 - 300 Microns
Extruders	Dual
Filament Diameter	1.75 mm
Supported Filament	PLA / ABS
Nozzle Diameter	0.4 mm



## 3D PRINTER

**Make** : FLASHFORGE

**Model** : Finder

**Specifications:**

Technology	FDM
Build Volume	140 X 140 x 140 mm
Layer Resolution	100 - 500 Microns
Extruders	Single
Filament Diameter	1.75 mm
Supported Filament	PLA / PVA
Nozzle Diameter	0.4 mm



## 3D SCANNER

**Make** : Artec3D  
**Model** : Artec Space Spider

### Specifications:

3D resolution, up to	0.1 mm
3D point accuracy, up to	0.05 mm
3D accuracy over dist. up to	0.03% over 100 cm
Texture resolution	1.3 MP
Colors	24 bpp
3D Light source	blue LED
2D Light source	6 white LED
Working distance	0.2 - 0.3 m
Linear field of view, HxW @closest range	90 mm x 70 mm
Linear field of view, HxW @furthest range	180 mm x 140 mm
Angular field of view, HxW	30 x 21°
Video frame rate, up to	7.5 fps
Data acquisition speed, up to	1 000 000 points/s
Multi core processing	Yes
Weight	0.8 kg / 1.8 lb
Interface	1 x USB3.0
Output formats	OBJ, PLY, WRL, STL, AOP, ASCII, PTX, E57, XYZRGB
Output format for measurements	CSV, DXF, XML
<b>Reverse Engineering Software</b>	<b>Geomagic Design X</b>



## 3D PRINTERS (6 Nos)

Make : FLASHFORGE  
Model : Adventure 3  
Year : 2023

### Specifications:

Technology	FDM
Print Volume	150 X 150 x 150 mm
Layer Thickness	0.1 mm-0.4 mm
Extruder	Single
Print Speed	30-100 mm/s
Nozzle Temperature	240°C
Hot bed Temperature	100°C
Filament Diameter	1.75 mm
Supported Filament	PLA / ABS
Nozzle Diameter	0.4 mm
Print Precision	± 0.2mm



## 3D PRINTERS (2 Nos)

Make : CREALITY  
Model : Creality K1  
Year : 2023

### Specifications:

Technology	FDM
Print Volume	220 X 220 x 250 mm
Layer height	0.1 mm-0.35 mm
Extruder	Single
Print Speed	≤ 600 mm/s
Nozzle Temperature	300°C
Hot bed Temperature	100°C
Filament Diameter	1.75 mm
Supported Filament	PLA / ABS
Nozzle Diameter	0.4 mm
Print Precision	100 ± 0.1mm



## 3D PRINTERS (2 Nos)

Make : CREALITY  
Model : Creality CR 5 PRO H  
Year : 2023

### Specifications:

Technology	FDM
Print Volume	300 X 225 x 380 mm
Layer thickness	0.1 mm-0.3 mm
Extruder	Single
Nozzle Temperature	300°C
Hot bed Temperature	110°C
Filament Diameter	1.75 mm
Supported Filament	PLA / ABS
Nozzle Diameter	0.4 mm
Print Precision	± 0.1mm

