

# 3D Workstation specifications

The Workstation consists of the following:

1. The 3D Scanning & editing system and software
2. Rotating platform for scanning anatomical specimens
3. 3D Printer

## 1. The 3D Scanning & editing system:

Processor: 4th generation Intel® Core™ i7-4790S Processor or better.

Graphics: NVIDIA™ GeForce GT 745A with 2GB DDR3 dedicated memory

Integrated Display: 23" diagonal, 10-point touch-enabled, Full HD (1920x1080) Wide Viewing Angle, White-LED backlit LCD Display

Memory: 8 GB DDR3-1600 (expandable to 16 GB)

Hybrid Drive: 1TB SATA Solid State Hybrid Drive with 8GB flash acceleration cache offers SSD-like Speed & HDD capacity

Webcam: High Definition 1MP Webcam

Sound: DTS Sound™

Connectivity: 10/100/1000 Base-T Network and Integrated Bluetooth® 4.0 and Wireless LAN 802.11a/b/g/n featuring Dual-band (2.4GHz and 5GHz) 2x2 MIMO technology

USB Ports: Dual USB 2.0 ports and dual USB 3.0 ports, including a powered port to charge USB devices.

Memory Card Reader: 3-in-1 Media Card Reader - Supporting SD, SDHC, SDXC

Keyboard and Mouse: High quality wireless chiclet-style keyboard with volume control, Windows 10 hot keys and optical mouse

The system should run on Windows 10 Operating System and should include the following:

Built-in illuminator: preferably powered by a projector.

High-Resolution 3D Camera with up to 14 megapixel resolution for instant capture of 2D and 3D objects, along with an LED desk lamp.


Diagonally 20 inchor larger, 20-point touch-enabled touch mat with a durable top coating. Stylus to write and draw comfortably.


## 3D Scanning & Editing Software:

Should fully licences software for capturing, editing and creating 3D models from anatomical specimens. It should have the facilities to rotate, shrink, stretch, or combine with other 3D objects to create new 3D models. It should be compatible with third-party software programs like Microsoft 3D Builder and Autodesk® Meshmixer, providing the ability to manipulate 3D digital objects in unlimited ways.

The software should also provide features to:

- Clean up models by smoothing and simplifying
- Automatically repair models to make them printable

  
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Dr. Renu Dhingra  
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- Merge, intersect or subtract objects from each other, or slice them into pieces

### 2. The Rotating Platform:

Rotation and Tilt: 360-degree rotation, 15-degree tilt for maximum scan coverage

Scan Capacity: Scan objects up to 2 kg (4.4 lb) and up to 19 cm (7.5 in) tall

Mesh Density: 200 microns

Detail Resolution: About 500 microns

Surface Texture Resolution: From about 100 dpi at Touch Mat up to about 200 dpi

### 3. The 3D Printer:

Should have a fully enclosed workspace with a pre-installed extruder and removable build platform. Full color IPS touchscreen for interaction with onboard software.

Build volume of at least 9 in x 5 in / 230 mm x 125 mm x 125 mm

Layer thickness: 0.004 in / 0.10 mm or less

3.5" or larger Full color IPS touchscreen

At least 4GB internal memory

Compatibility with OpenGL 2.1 or later.

The 3D Printer should be UL Certified.

### Guarantee/Warranty:

As per AIIMS terms and conditions

*Sarab Kumar Rep. Sharma*

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### Terms & Conditions:

- The quotations should be submitted to the Professor & Head, Department of Anatomy, Room No. 1010, AIIMS, New Delhi-29 and sent by post/per bearer by 7<sup>th</sup> October, 2016 up to 12.00 P.M. Quotation should be sealed in an envelope and the "name of the item" clearly written on top of the envelop.
- The make of the article offered should invariably be quoted. Quotation should be typed written in ink. All overwriting and erased entries will be deleted from the quotation. The rates should be valid for at least THREE MONTHS.
- VAT/Sales tax or any other kind of tax(s) must be separately mentioned against each item. In case no sales tax is chargeable, prices must be quoted as NET.
- **Warranty/Guarantee:** two years followed by three years CMC comprehensive warranty.
- **Installation:** The firm install the equipment on the site, free of cost
- The firm should be able to give demonstration of the item if required within 5 days of requisition.
- The firm must supply the item within 20 days after confirmation of order.
- **The successful bidder has to submit performances bank guarantee of 10% of the order value valid upto warranty period.**
- The payment will be made electronically viz RTGS/NEFT against delivery and satisfactory installation of the item. The following information should be also mentioned in the quotation.
- Name of the beneficiary:
- Account No. of the beneficiary:
- IFCS code of the bank/branch:
- The quantity can be increased or decreased to any extent depending upon the actual requirement.
- The Professor & Head of the Department reserves the right to cancel/reject full or any part of the rate enquiry which generally do not fulfil the conditions stipulated in the rate enquiry.
- Payment will be made after receiving the items in good condition and satisfactory installation.
- No extra transportation charge will be given to the firm.
- The firm must supply the items within the date mentioned on the supply order copy.

Thanking you

*Renu Dhingra*

(Dr. Renu Dhingra)

Professor

Computer facility: With request for uploading the same in AIIMS websites for the period of 15 Days.

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