



CENTRAL COUNCIL FOR RESEARCH IN UNANI MEDICINE
(An Autonomous Organization under Ministry of AYUSH, Govt. of India)
61-65, Institutional Area, Oppo. D-Block, Janakpuri, New Delhi-110058.

LIMITED TENDER NOTICE

On behalf of the Director General, CCRUM, New Delhi, the Research Officer In-charge, Drug Standardization Research Unit, New Delhi invites sealed Limited Tender/Quotations from reputed firms in one bid system (Techno-commercial) for the supply of Trinocular Research Microscope with Camera & Image Analysis Software. The detailed specifications of the instrument are either may be downloaded from CCRUM website or may be obtained from the office of Research Officer In-charge, Drug Standardization Research Unit (Ground Floor), D-Block, Janakpuri, New Delhi-110058

The last date for receipt of Limited Tender/ Quotations is 12th February 2021 at 5:00 PM. For details please visit CCRUM website www.ccrum.res.in.


Research Officer In-charge
DSRU, New Delhi

**SPECIFICATIONS OF TRINOCULAR RESEARCH MICROSCOPE
WITH CAMERA & IMAGE ANALYSIS SOFTWARE**

A trinocular microscope has two eyepieces like a binocular microscope and an additional third eyetube for connecting a microscopic camera. It is meticulously designed targeting to conduct the more demanding research worldwide. With the use of latest technology it opens door for the advance microscopic studies by capturing image with high resolution and record videos, which can be saved further for future reference. It's software provides accurate and reliable data so that the user can streamline their workflow and achieve more in less time. This research instrument should have following specifications :-

1. TRINOCULAR RESEARCH MICROSCOPE (UP-GRADABLE TO FLOUORESCENCE, PHASE CONTRAST & DARK FIELD)

Specifications :

Eye piece : Wide field high eyepoint eyepiece UC-WF 10X/22mm ith diopter adjustment on both eyepieces and rubber eyecups. Interpupiliary distance 48-75mm

Observation Tube : Trinocular head sideentopf type 25° inclined 360°

Objective : Anti Fungus UC Infinity colour corrected objectives

- UC Plan Achromatic Objective UC PL 4X/0.10
- UC Plan Achromatic Objective 10X/0.25, WD=17.4mm,
- UC Plan Achromatic Objective 40X/0.65/S, WD=0.6mm,
- UC Plan Achromatic Objective 100X/1.25 Oil, W.D=0.16mm

Nosepiece : Reversed coded quintuple nosepiece with light tracer (intelli Light Management)

Mechanical Stage :

- Anti-scratch coating and a dual-slide holder
- Compact Rackless Mechanical Stage size 185x145 mm.
- Travel range 75x50mm in x & y direction with right hand control
- Upper limit stop preset and adjustable

Condenser : Abbe condenser N.A. 0.90 with iris diaphragm with simple analyser & polarizer

Illumination : 3W LED with intensity control

Digital Light Management :

- Light Tracer system
- LED Light Intensity Indicator
- USB for camera power

C-Mount Adopter: 0.5X C-mount camera adapter for 1/2.5" chip sensors.

2. SCIENTIFIC HD (High Definition) DIGITAL CAMERA

Specifications :

Sensor Type : CMOS

Sensor Size : 1/ 2.8 Inch



Resolution : 8 MP

Capture format on SDcard : Still image (8.0MP) / Video HD 1980x1080

- Live Display Model (through USB) : 1980x 1080
- Live Display Model (through HDMI) : 1920x 1080 (HD) 60fps

Pixel Size : 2.8µm x 2.8µm

Operating Temperature : From -10 to +60 Degree Celsius on non condensing

Max Signal to noise ratio : 38.1 dB

Dynamic range : 70.1 dB

Slot : SD Card (max 32 Gb)

Lens Mount : C Mount

Standard Tools : Still image capture, Live image record, Zoom in & out, Magnifier, ROI, Mirror, Rotation, Split, Freeze, Cross line, Gallery

Support Device : Twin and Direct show Driver

Supported OS : Microsoft Windows XP SP3/ Vista/7/8/10 and MAC OSX

3. IMAGE ANALYSIS SOFTWARE

Specifications :

- Instant Image Capturing, Real time full screen image, Programmed Interval Captures, Video Capture by Time Setting
- Easy measurement Calibration, Measurement in microns, inches, millimetres Length Measurements, Ellipse, Rectangle, Irregular Shape Measurements, Perimeter, Radius, Circumference Measurements, Angle Measurements, Magnifier (Zoom) function.
- Distant Image Sharing, On-line files sending/ receiving
- Image amalgamation, Image Adjustment Effects
- Automatic Cell Counting, data Export, Report Generating and print Out
- Interactive file Format

4. BRANDED PC SYSTEM WITH UPS AND COLOUR PRINTER

A desktop computer with preloaded operating system, configuration intel core processor, Microsoft window 10 operating system or latest version.

Specifications :

Monitor : 23.5 inch display with FHD(1920x1080) resolution

Memory : Minimum 4 GB 1066 MHZ DDR3 RAM with 8 GB expandability

Hard Disk Driver : 1TB HDD

Contrast ratio : 1000 : 1 (Typ)

Print Nozzle Configuration : 180 Nozzles Black, 59 Nozzles per color

Printing Resolution : 5,760x 1,440 DPI

All in one functions : Print, Scan, Copy

