

**DR. RAJENDRA PRASAD CENTRE FOR OPHTHALMIC SCIENCES**  
**All India Institute of Medical Sciences**  
**Ansari Nagar, New Delhi-29**

Ref. No. SO/RPC/Proprietary/ Microscope-OCT/2014-15

Dated: 14.03.2015

**Subject: Purchase of HD Operating Microscope (with built-in OCT) – 01 No. (Under buy back of existing zeiss microscope) for Dr. R.P.Centre at AIIMS, New Delhi-29 on proprietary basis- Inviting comments thereon.**

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The request received from respective faculties of Dr. R.P.Centre AIIMS for the purchase of subject cited equipment from M/s. Carl Zeiss Meditech AG, Germany, on proprietary basis. The proposal submitted by M/s Carl Zeiss Meditech AG, Germany and PAC certifications are attached & uploaded on website.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within 15 days from the date of issue/uploading of the notification giving reference **SO/RPC/Proprietary/Microscope-OCT/2014-15**. The comments should be sent to Stores Officer, Dr. R.P.Centre at AIIMS on or before **27.03.2015 upto 12.30 P.M.**, failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

**Yours faithfully,**

**STORES OFFICER (RPC)**

**Encl: Related documents enclosed.**

- 1. PAC Certificate enclosed.**
- 2. Specification of equipment.**

## **Specifications: -**

### Main Microscope:

- Achromatic optics with anti-reflex multi coating
- Motorized zoom system with zoom ratio 1:6 magnification factors : 0.4x-2.4x
- Focussing range 70 mm
- Speed control for zoom and focus
- Tiltable binocular tube  $f=170$  mm, with Integrated image inverter.
- Pair of high eyepoint widefield eye pieces 10x with diopter setting from  $-8D$  to  $+5D$ ,
- Achromatic objective  $f=200$  mm with carrier ring.
- Total magnifications : 4.3x to 25.5x with eyepiece 12.5x and objective lens  $f=200$ mm Field of view : 8.6 mm to 51.8 mm with eyepiece 12.5x and objective lens  $f=200$ mm
- Integrated Slit illumination; Slit width 0.2, 2.0, 3.0, 4.0mm & Slit height 12mm.
- beam splitter should be integrated in the microscope body.
- HD camera should be integrated in the microscope body without any external attachment. Camera controls unit should be integrated in the stand.

### Built-in assistant's Microscope :

- Integrated Assistant microscope with electrical zoom magnification, with programmable magnification to achieve magnification for main surgeon & assistant. independent fine focusing system.
- Inclinable Binocular tube with integrated image inverter.
- SCI (Stereo coaxial illumination) for constant brilliance and brightness, red reflex illumination and surrounding field illumination both are adjustable.
- Pair of high eye point wide field eye pieces 10x with diopter setting from  $-8D$  to  $+5D$ ,
- Provision of red reflex for assistant with equal brightness

### XY Coupling

- Range of adjustment 60 mm x 60 mm. Control of automatic reset of XY movements.
- Provision of inversion of XY direction of travel via foot control, Speed control for XY.

### Illumination

- SCI (Stereo coaxial illumination) for constant brilliance and brightness, red reflex illumination and surrounding field illumination both are adjustable.
- Fiber light guide, Integrated Xenon illumination system with 180W xenon lamp with back up lamp 180W xenon with availability of Halogen filtered illumination.
- Integrated 408 nm UV filter for protection against infrared exposure
- Blue Blocking Filter, Provision of retina protection device
- Provision of system of magnetic clutches for all locks for positioning of microscope across surgical field

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### **Intraoperative OCT :**

- Spectral Domain OCT wavelength 840nm
- Scanning speed 27000 A scan per second.
- Axial resolution 5.5micron.
- Scan length 3 – 16mm
- Scan modes for Live : 1 Line, 5 Line & Cross hair.

- Scan modes for capture: 1 Line, 5 line & Cube.
- Touch screen control through Callisto eye.

#### **Wide Angle viewing system:**

- Non contact, Autoclavable wide angle viewing system.
- Non contact lenses 60D & 128D – 2 sets.

Floor Stand

- **Magnetic clutches for effortless movement and positioning, Built in maneuvering handles**
- Facility to change to back up lamp in event of lamp failure by fast action change
- Lamp intensity adjustment via foot control panel
- Progressive speed adjustments
- Wireless programmable 14 function foot control panel.
- Storage facility of magnification, motor speed, configuration of foot control panel, lamp brightness and focal plane for at least 9 different users
- Facility for non sterile release of suspension arm

#### **Accessories**

- HD Video Recorder should be integrated in microscope stand.
- IDIS facility- Superimpose of OCT image in eye pieces.



CARL ZEISS MEDITEC

15.04.2014

The Chief  
Dr. Rajendra Prasad Centre for Ophthalmic Sciences  
All India Institute of Medical Sciences  
Ansari Nagar  
New Delhi-110 029  
India

**PROPRIETARY CERTIFICATE FOR ZEISS OPMI LUMERA 700 SURGICAL MICROSCOPE AND RESCAN 700 INTEGRATED INTRAOPERATIVE OPTICAL COHERENCE TOMOGRAPHY (OCT) SYSTEM**

Dear Sirs,

We hereby certify that the **OPMI LUMERA 700** and **RESCAN 700**, the first surgical microscope ophthalmic surgery with integrated Intraoperative optical coherence tomography (OCT) system, is the **proprietary product of Carl Zeiss Meditec AG, Germany.**

Innovation in eye care starts with the desire to see more. With the first surgical microscope and the first commercial OCT for ophthalmic applications, two gold standards have now been fused together into one system-introducing a new era in surgical microscopes.

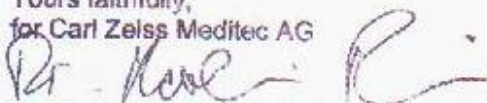
Equipped with ZEISS RESCAN 700, ZEISS OPMI LUMERA 700 takes surgical microscopy to a whole new level with integrated Intraoperative OCT. The ophthalmic surgeons visualize transparent structures of the anterior and posterior segments directly in the eyepieces of the surgical microscope; see exactly where they are scanning with the scan location marker and move the scan independently of the surgical microscope.

ZEISS RESCAN 700 gives the ophthalmic surgeons more information during retinal or corneal surgery in the eyepieces of the surgical microscope, allowing them to see structures in ways they never have; helping them back up their decisions, thereby improving surgical techniques or simply achieving better outcomes without compromising their surgical workflow.

Seamlessly integrated into the surgical workflow, the system adds a real-time 3rd dimension to the visualization capabilities. The system allows the surgeons to view the transparent structures of the eye during the surgery and instantly monitor their surgical decisions, progress and outcomes.

Thanking you,

Yours faithfully,  
for Carl Zeiss Meditec AG

  
Dr. Karlheinz Rein, Authorized Signatory



Carl Zeiss Meditec AG  
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