

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

Ref. No. SO/RPC/HD-Operating Microscope/2015-16

Dated: 29.08.2015

**Subject: Purchase of HD-Operating Microscope for Ophthalmology– 03 Nos. for Unit-I&II, Dr. R.P.Centre at AIIMS, New Delhi-29 on proprietary basis- Inviting comments thereon.**

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As per decision taken/ approved by Competent Authority of Dr. R.P.Centre AIIMS for the purchase of subject cited equipment from M/s. Carl Zeiss Meditec AG, Germany, on proprietary basis. The proposal submitted by M/s. Carl Zeiss Meditec 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/HD-Operating Microscope/2015-16**. The comments should be sent to Stores Officer, Dr. R.P.Centre at AIIMS on or before **15.09.2015 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.**

## SPECIFICATION

### 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 65- 68 mm
- Speed control for zoom and focus
- Tiltable binocular tube  $f= 160 - 170$  mm with integrated electric image inverter, interpupillary distance adjustable from 55mm to 75mm
- Pair of high eye point wide field eye pieces 12.5x with diopter setting from  $-8D$  to  $+5D$ ,
- Achromatic objective  $f= 200$  mm.
- Total magnifications : 5x to 24x 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 for additional Stereo co observation attachment/ documentation.
- High definition 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 12.5x with diopter setting from  $-8D$  to  $+5D$ ,
- Provision of red reflex for assistant with equal brightness

### XY Coupling

- Range of adjustment 58 mm x 58 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/Yellow Blocking Filter, Provision of retina protection device
- Provision of system of magnetic clutches for all locks for positioning of microscope across surgical field

### 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 7 - 9 different users
- Facility for non sterile release of suspension arm

### Accessories

- HD Video Recorder should be integrated in microscope stand.
- Non contact Wide angle viewing system with auto cleavable lenses.

**1. Tiltable binocular tube with Integrated Electrical Image Inverter:**

Image inverter is required in VR surgery to re-invert the fundus image. In normal microscopes mechanical inverter is attached below the binocular tube & this will increase the height of microscope.

Binocular tube with integrated electrical image inverter will not increase the height of microscope & Image invert function is automatic with Resight 700 & can be operated through foot control panel.

**2. High definition camera integrated in microscope body:**

Integrated HD camera is from same manufacturer so no after sales service issue. with integrated camera all the cables & power supply are integrated in microscope so clear surgical environment.

**3. Assistant microscope with electrical/motorised Zoom magnification:**

With electrical assistant Zoom the magnification of Main surgeon & Assistant will remain same. Both will work on same magnification & field of view.

**4. SCI ( Stereo coaxial illumination):**

Stereo coaxial illumination for high contrast, red reflex so that every detail of eye is clearly recognizable, even with advanced cataracts.

Optional:

1. No fiber optic system for vitrectomy procedures,
2. 40D/80D/120D lenses for various needs for retinal surgery

**5. Integrated 180 W Xenon with backup 180W Xenon:**

Factory fitted 180W Xenon illumination system with blue blocking filter for white light & Integrated Ha filter for illumination close to Halogen illumination.

**6. Integrated HD Video recorder:**

Integrated HD camera is from same manufacturer so no after sales service issue. with integrated camera all the cables & power supply are integrated in microscope so clear surgical environment.



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The Chief,  
Dr. R. P. Centre For Ophthalmic Sciences  
All India Institute of Medical Sciences  
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Your ref.:

Date: 07.05.2014

**PROPRIETARY CERTIFICATE FOR ZEISS OPMI LUMERA 700 SURGICAL MICROSCOPE FOR OPHTHALMIC SURGERY**

Dear Sir,

We hereby certify that **ZEISS OPMI LUMERA 700 Surgical Microscope** for Ophthalmic Surgery is only manufactured by and is the **proprietary product of Carl Zeiss Meditec AG**, D-73447 Oberkochen, Germany.

The OPMI LUMERA 700 offers the following unique features and benefits which are not available with surgical microscopes manufactured by any other companies :

**Stereo Coaxial Illumination (SCI)** for constant brilliance and brightness-every detail of the patient's eye becomes visible. Combined with the completely **apochromatically corrected optics** with high light transmission, the system provides unprecedented and thus optimal imaging quality for ophthalmic surgery and documentation with minimal patient stress.

**DeepView** enabling the surgeon to select an optimized depth of field mode on the microscope

**Superlux Eye xenon light source** offering a whiter, higher contrast and more natural color impression of the surgical field and **HaMode filter** for halogen-like light. The **Superlux Eye** xenon light source is equipped with a **quick change mechanism** for changing the bulb in the event of failure, while with its **automatic bulb change**, the halogen light source moves the backup lamp automatically into position. If the motorized functions fail, the surgical procedures can be completed by using special buttons or via the **manual mode of the system**.

**Motorized illumination components** for red reflex and surrounding field of SCI, adjustable via foot control panel or handgrips.

The **integrated keratoscope** option enabling visualization of corneal astigmatism

Chairman of the Supervisory Board:  
Dr. Michael Kaschke

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IBAN: DE90620700000624536900

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VAT-ID No. DE 811 922 737  
WEEE Reg. Nr. DE55298748

Board of Management:  
Dr. Ludwin Monz, President and CEO  
Thomas Stimmerer  
Dr. Christian Mueller



CARL ZEISS MEDITEC

**Fully integrated 3 CCD MediLive Trio Eye video camera** specially designed for the requirements of ophthalmic surgery, available in Standard Definition (SD) or High Definition (HD) versions.

Integrated HD video chain comprising of a camera monitor and video recording via USB

**Integrated assistant's microscope** with independent focusing and its own motorized zoom. The magnification can be performed independently of or linked to the zoom of the main surgeon (freely configurable via software). The stereopsis corresponds to that of the main surgeon's microscope and functions without light loss for the main surgeon, with deselectable function or optional mechanical 5-step magnification changer.

**Motorized, swing-in retinal protection device** activated by foot control panel or handgrips reduces the risk of phototoxic injury.

The **integrated beam splitter** guaranteeing a constant working height, also when additional accessories are attached. e.g. stereo coobservation tube

Large **fine focusing range of 70 mm**

Space for surgery-cables and optional functions such as the keratoscope, slit illuminator and USB video recording are **integrated** into the system.

**Integration**-perfect integration of **RESIGHT fundus viewing system, Invertertube E and integrated video camera**. The integration of these accessories and the associated partial automation of the required settings on the microscope facilitate the workflow in the OR considerably.

**Wireless** 14-function foot control panel with freely configurable keys (optionally with cable available)

**Optimized workflow and maximum ease of use**-thanks to the wireless foot control panel and the assistance functions of CALLISTO eye (option) such as Z ALIGN for toric IOLs, K TRACK, Incisions/LRI and microscope settings directly in the eyes with IDIS.

**Simple to operate**-reading of microscope settings or overhead display and fast focusing for switching readily between two different planes

The **integration** of these accessories and the **associated partial automation** of the required settings on the microscope **facilitate the workflow** in the OR considerably.

Thanking you,  
Yours truly  
for Carl Zeiss Meditec AG

  
J.V. Martin Sailer



**Carl Zeiss Meditec AG**  
Standort: Oberkochen

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