



All India Institute of Medical Sciences Jodhpur

Admn/Prop/03/2017-AIIMS.JDH

Dated: - 08th May, 2017.

Subject: Purchase of 4K Laparoscopic System for the department of General Surgery at AIIMS, Jodhpur on proprietary basis- **Inviting comments thereon.**

The Institute is in the process to Purchase of 4K Laparoscopic System (Visera 4K UHD Laparoscopy Imaging Systems for the department of General Surgery at AIIMS, Jodhpur from M/s Olympus Corporation, Shinjuku Monolth, 3-1 Nishi-Shinjuku 2-Chome, Shinjuku-ku, Tokyo 163-0914, Japan on proprietary basis and PAC certification by user are attached.

The above document are being uploaded for open information to submit subjection, comments, if any from any manufacturer regarding proprietary nature of the equipment within 21days of issue giving reference Admn/Prop/03/2017-AIIMS.JDH. The comments should be received by office of Administrative Officer, Medical College at AIIMS, Jodhpur on or before 30th May, 2017 upto 03:00 PM 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,

Administrative Officer

Enclosed: Related documents enclosed.



All India Institute of Medical Sciences Jodhpur

OLYMPUS®

Your Vision, Our Future

OLYMPUS CORPORATION

Headquarters

Shinjuku Monolith, 3-1 Nishi-Shinjuku 2-chome, Shinjuku-ku,
Tokyo 163-0914 Japan

Technology Research Institutes

2951 Ishikawa-machi, Hachioji-shi, Tokyo 192-8507 Japan
2-3 Kuboyama-cho, Hachioji-shi, Tokyo 192-8512 Japan

Dated: 30th May 2016

To,
The Director
All India Institute of Medical Sciences
Ansari Road, New Delhi

Sub: Proprietary Article Certificate –VISERA 4K UHD LAPAROSCOPY IMAGING SYSTEMS

Dear Sir,


This is to certify and confirm that following technologies are adopted in the Olympus 4K imaging related products.

- A full 4K ultra high definition processor (VISERA 4K UHD: OTV-S400) having native resolution of 4096 x 2160 pixels.
- 300 watt Xenon light source (VISERA 4K UHD: CLV-400) with emergency spare lamp having "NBI technology" - Narrow Band Imaging for visualization of fine capillaries and vessel pattern on mucosal surface for abnormal lesions.
- Video processor (VISERA 4K UHD: OTV-S400) having BT2020 video format to display true 4K color format.
- Full 4K Camera head (VISERA 4K UHD: CH-S400-XZ-EB) having Exmor-R 4K CMOS sensor providing high sensitivity and Less noise for clear image.
- Ultra Telescope (WA4KL500, WA4KL530, WA4KL545, WA4KL100, WA4KL130, WA4KL145) having ED lenses for sharp images, with wide field of view and fully autoclavable.

This is to further certify that VISERA 4K UHD system (OTV-S400, CLV-400, CH-S400-XZ-EB) is manufactured by Olympus Corporation, Japan having its office at Shinjuku Monolith, 3-1 Nishi-Shinjuku 2 – chome, Shinjuku-ku, Tokyo 163-0914, Japan. Also Ultra telescope (WA4KL500, WA4KL530, WA4KL545, WA4KL100, WA4KL130, WA4KL145) is manufactured by Olympus Winter & Ibe GmbH having its office at Kuehnstrasse 61, 22045 Hamburg, Germany.

Thanking you,

For Olympus Corporation,


Rie Nakase (Authorised Signatory)
General Manager
Medical Asia Pacific Sales Marketing Department



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General Specifications for 4K Ultra High Definition Laparoscopy Imaging System

A 4K Ultra High Definition Laparoscopic Imaging system will consist of the following items:

All items should be Medical Grade. It should provide 4 times more information than Conventional Full HD imaging system. The complete Optical Chain should be 4K for Optimized imaging.

- 1) Full 4K video image processor
- 2) Powerful 300W Xenon light source
- 3) 4K camera head
- 4) 55" 4K – UHD (3840 pixel) medical grade monitor
- 5) Ultra Telescopes
- 6) Light Guide Cable
- 7) Full HD 4K recording system

1) **Full 4K High Definition Video Image processor:** (Should have following specifications)

- A full 4K high definition processor should have native resolution of 4096x2160 pixels. System Should also provide 3840 x 2160 or 1920 x 1080 should also be selectable. (Should provide both 4K output and HD output)
- Video processor & Monitor having BT2020 video format to display true 4K color format.
- It should have Touch panel operation for easy control.
- Rich Color pick up: System should provide color gamut of ITU-BT2020 and should also provide option of ITU-BT709
- Should have AE (Automatic Exposure) – Iris function.
- Should provide at least 10 individual User preset.
- The System settings, Color Tone, color Mode, contrast, enhancement etc. should be held in memory even after video system processor is switched OFF.
- Should have compatibility for selecting 3G-SDI or HD-SDI signal output (transmission method).

2) **Powerful 300W Xenon Light Source:** (Should have following specifications)

- A Powerful 300 Watt Xenon Lamp with emergency lamp facility
- Automatically adjusts light intensity to achieve ideal illumination
- Built-in special filter for early cancer detection
- Backlit front panel indicators.
- 300 watt Xenon light source Light source with emergency spare lamp having " NBI technology" - Narrow Band Imaging for visualization of fine capillaries and vessel pattern on mucosal surface for abnormal lesions -

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- Automatic switching to emergency lamp

3) Full 4K Camera head : (Should have following specifications)

- The Camera Head should incorporate Optical fiber transmission providing 4K resolution through thin cable..
- **Should have Xmor-R CMOS sensor providing high sensitivity and Less noise for clear image**
- Should provide One-touch Auto Focus Function
- Should provide Electronic Zoom Function (button controlled) – x2.0 electronic zooming in 6 steps (x1.0, x1.2, x1.4, x1.6, x1.8, x2.0)
- Should be immersible in disinfectant solution and sterilization through ETO & Sterrad.
- Should have Focal Length $f=23.5$ mm

4) 4K Medical Grade Monitor: (Should have following specifications)

- **4K Medical grade 55 inch UHD LCD/LED backlit monitor with ultra -high definition resolution 3840x2160.**
- Monitor should have 16:9 Aspect Ratios.
- 4K Medical Grade Monitor : Opti- contrast Panel providing higher contrast image and less color blurring.
- should provide wide color gamut – BT2020
- should have multi-image display format – Rotation Image, Side-by-side, Picture-in-picture and Picture-out-picture and flip Pattern to rotate the image.
- Should have various input/output terminals, including 3G/HD/SD SDI, DVI-D, BNC(x5) and HDMI.
- Monitor should have Opti-contrast Panel providing higher contrast image and less color blurring.
- Monitor should preferably run on AC (without DC adapter) 100V – 240V, 50/60Hz.

5) Ultra Telescope: (Should have following specifications)

- 10mm –DOV :0 degree and 30 degree. FOV : 88 degree, Working Length: 315 mm
- 5mm - 0 degree, 30 degree and 45 degree. FOV : 84 degree, Working Length: 315 mm
- **Telescopes should incorporate - ED Glass Lenses for High resolution Imaging & less Chromatic aberration.**
- Completely distortion free.
- Homogenous Light distribution in the peripheral region.
- Eyepiece type connection – for uniform compatibility.
- Large field of view and depth of focus.
- Fully Autoclavable type.
- **4K Ultra Telescope having ED lenses for distortion free and razor sharp images, with wide field of view and fully autoclavable.**

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6) **Light Guide Cable, Must be Autoclavable:** (Should have following specifications)

- High Resistance protection tube.
- Reduced diameter with high fiber density.
- Small bending radius for comfortable use.
- 3 Meter in length.
- Should be ROHS compliant.

7) Full HD 4K recording system



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