Subject: Purchase of equipment Video CCD camera C7500-51, Hamamatsu Photonics) with camera controller for the department of Neurosurgery at AIIMS, New Delhi-29 on proprietary basis- Inviting comments thereon.

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The request received from Dr. P. Sarat Chandra, Deptt. of Neurosurgery, AIIMS by M/s. Hamamatsu Photonics on proprietary basis. The proposal is submitted by M/s Hamamatsu Photonics and PAC certifications are attached.

The above documents are being uploaded for open information and to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within issue of 15 days giving reference No.17/Stores/Neurosurgery/PSC/Proprietary/2012-13/RS. The comments should be received by office of Stores Officer (RS), Research Section at AIIMS on or before 18.02.2013 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 (RS)

Encl: Related documents enclosed.
  PAC Certificate enclosed.
  Specification of equipment.
SPECIFICATIONS:

Video CCD camera C7500-51, Hamamatsu Photonics) with camera controller.

Unique features of Video CCD camera:

- ½” Interline transfer CCD/interlace scan
- Very High Quantum Efficiency from 770nm to 1100 nm around 73% which surpasses that of conventional CCD cameras. This camera is especially suited for IR DIC.
- High S/N Ratio around 54 dB (CSIR)
- Sync System: CSIR
- Internal Sync
- AGC: ON/OFF/Fixed
- Gamma: 1/0.45
- Minimum sensitivity: 1 lux, F1.4, (AGC=ON)
- Typical sensitivity: 400 lux, F16 (2856 K)
- Electronic Shutter: Flicker less, 1/125 to 1/10,000 sec
- On chip integration: A dedicated camera control unit enables images to be accumulated on the CCD chip with improved sensitivity.
- Frame transfer rate: 25 fps
- Min exposure: 40 msec
- Max exposure: 40 sec
- Active Sensor area: 6.4x4.8 mm
- No of pixels: 752x582
- Cell size: 8.6x8.3 um
- Effective no of pixels: 560x575
- Resolution: 560x575 TV lines
- External Sync: HD/VD Sync R R
- Impedance: 75 ohm

Unique features of camera controller:

- Contrast Enhancement: to change a very very low contrast image to clear image.
- Auto Contrast Enhancement: When input light is detected, an amplifier gain is adjusted automatically, and the contrast of image is kept constant.
- Shading Correction: This function corrects shading caused by optics such as light sources, lenses, it enables horizontal and vertical correction as well as diagonal correction.
- Averaging function: This function averages an image data to reduce random noise and creates high grade image.
- Detail Enhancement: This function enhances edges of objects and intensity transitions, it dramatically improves the performance to display a vague image in details.
- Gamma correction: it enables to modify the captured image data to display it more naturally and lower contrast portions clearly.
- Synchronization system (selectable by software): NTSC OR CCIR
- Output signal: 15.734 KHz/59.94 Hz (NTSC)
  - 15.625 KHz/50.00 Hz (CCIR)
- Interface: 2.1
- Aspect ratio: 2:3 (Horizontal: Vertical)
- Input signal: composite video signal (1V p-p/75 ohm BNC or 12 pin)
- Versatile interface of RS232C
- Power consumption: 60V/A
Dr Sarat Chandra  
Room No.7, 6th Floor  
Centre of Excellence for Epilepsy  
Department of Neurosurgery  
C N Centre  
All India Institute of Medical Sciences  
Ansari Nagar  
Delhi 110 029  
India

January 9th 2013

Proprietary Certificate

Dear Sir

We certify that our model “Near Infrared 1/2-inch CCD Video Camera – C7500-51 with Accessories” is designed and manufactured by Hamamatsu only

Should you have any questions or need additional information, please do not hesitate to contact us

Yours sincerely

Miss Kelly Robinson  
Sales Assistant  
krobinson@hamamatsu.co.uk

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Commercial Registration:
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