

**Indian Institute of Technology Kanpur
Department of Electrical Engineering**

Enquiry for CMOS Camera with Accessories

Enquiry No.: IITK/EE/SG/2018-19/04

Enquiry Date: Aug 2, 2018

Closing Date: Aug 22, 2018

Sealed quotations by post/courier are invited for **one unit of CMOS camera with accessories** as per the specifications and terms and conditions listed below.

Specifications:

1. Sensor type: Scientific CMOS (sCMOS)
2. Output: Monochrome
3. Resolution: 2048 X 2048 pixels or more
4. Pixel size: 6.5 μm X 6.5 μm or more
5. Quantum efficiency: $\geq 40\%$ at 400 nm, $> 72\%$ at 500, $> 80\%$ at 600 nm, $> 65\%$ at 700 nm, $> 42\%$ at 800 nm
6. A/D converter: 16 bit
7. Frame rate: ≥ 30 frames/s at full resolution
8. Dynamic range: $\geq 33000:1$
9. Dark current: < 0.8 e/pixel/s
10. Full well capacity: $\geq 30,000$ electrons
11. Read noise: ≤ 1.5 electrons (rms)
12. Binning: 2X2, 4X4
13. Cooling temperature: 10 C or less
14. Data interface: USB 3.0
15. Option for trigger inputs should be present
16. Software must be included and compatible with Windows
17. All parts must be compatible with 220V/50Hz supply

Terms and conditions:

1. All items must have at least 1 year warranty from the date of installation, without any additional charge.
2. Combined price of camera and software must be quoted.
3. All accessories required for installation must be included in the quote.
4. Include authorization certificate from the principal if you are a local agent.
5. If import is required, quoted price should be CIP New Delhi. For quotes in INR, the price quote should be for delivery to Kanpur.
6. Payment terms should be NET30.
7. The manufacturer's specification sheets for the products **must be** enclosed.
8. Attach compliance sheet and complete details of the products.
9. Quotations should have a minimum validity of 60 days.
10. The goods should be delivered no later than 60 days from the day of the placement of the order from IIT Kanpur. Particular importance will be given for prompt delivery of the goods. The delivery period should be specifically stated.
11. Maximum educational discount should be applied – these products will be used for research as well as to teach and train students.
12. The institute reserves the right of accepting and rejecting any quotation without assigning any reason.
13. The indenter reserves the right to cancel the tender without being answerable.
14. A single quote should be made with financial and technical specifications. The sealed envelopes with the quote should be superscribed with the inquiry number.

Address quotations to

Dr. Shilpi Gupta
Department of Electrical Engineering
Indian Institute of Technology, Kanpur
Kanpur, UP 208016, India