



INDIAN INSTITUTE OF TECHNOLOGY KANPUR  
CENTER FOR LASERS AND PHOTONICS  
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Dr Asima Pradhan  
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Center for lasers and Photonics, IIT Kanpur  
Enquiry no.: CELP/PSE/2017-2018/AP/NC/03

Enquiry date: 26 /05/2017

~~Last Date: 16/ 06/2017~~

Enquiry for CCD Camera

Extended Date:26/06/2017

We would like to purchase a CCD camera for our laboratory scale experiments. Offered product should take into account specifications given below.

CCD camera	
Type of sensor	CCD (color)
Dimension of the camera	71.5 mm x 39mm x 39mm
Resolution (h x v)	1392 x 1040 pixel (normal) 800 600 pixel (center ROI)
Pixel size (h x v)	6.45 $\mu$ m x 6.45 $\mu$ m
sensor format /diagonal	2/3" /11.14 mm
Shutter mode	Global (snapshot)
Full well capacity	16000 e- 2400e-(binning)
Readout noise	5-7 e- rms @ 12 MHz (typ.) 6-8e-rms @24MHz (typ.)
Dynamic range	2667 : 1 (68 dB) 4000: 1(72 dB, binning)
Quantum efficiency	62 % @peak
Spectral range	290 nm-1100 nm
Dark current	1 e-/pixel/s @ 23 °C
DSNU	2 e- rms
PRNU	< 1
Max frame rate	7.3 / 13.5 fps (12/24 MHz, normal) 11.7 / 21.6 fps (12/24 MHz, center)
Exposure/shutter time	1 $\mu$ s- 60 s
Dynamic range A/D	14 bit
A/D conversion factor	1.0 e-/ count
Pixel scan rate	12 MHz / 24 MHz
Binning (hor x ver)	1 x 1- 4 x 4
Non linearity	< 1%
Smear	< 0.002 %
Anti-blooming factor	>400 (standard 100 ms exposure) > 4 (NIR boost 100 ms exposure)
Trigger input signals	Software / TTL level



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Trigger output signals	3.3 V LVTTTL level
Data interface	USB 2.0
<b>ACCESSORIES</b>	
Suitable C mount Lens	
Trigger Interface and suitable Trigger Source	
Compact camera lens	

**Terms & Conditions:**

- 1) Cost of the items including relevant accessories with technical specification should be mentioned in detail
- 2) Prices should include delivery up to IIT Kanpur.
- 3) Warranty should at least be for two year after installation.
- 4) Validity of quotation should be at least for 90 days
- 5) Delivery period: within 45 days from the date of purchase order.
- 6) Kindly send your best offer and the quotation along with your authorized dealer certificate to address given below (Technical and Price bid separately).

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