



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION**

Ref. PR No. 1000039822

RFx No.6100002019

Specifications for CMOS Camera

Sr. No	Item Description	Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
1.	Sensor Technology	CMOS		
2.	Resolution	2440 x 2040 pixels (should be equipped with 2 x 2 binning ability at resolution of 1216 x 1020 pixels)		
3.	Pixel size (μm)	2.7 μm x 2.7 μm		
4.	Sensor size	6.7 x 5.6 mm^2		
5.	Full well capacity	9550 e^-		
6.	Quantum efficiency	over 70%		
7.	Exposure time	min 6 μs		
8.	Spectral range	400 nm – 900 nm		
9.	Digital output	8, 10 and 12 bit		
10.	Interface	CoaXPress-12, should come with 10m HD BNC cable		
11.	Single frame rate @8bit/10bit/12bit	260/260/172 Hz		
12.	Double frame rate @8bit/10bit/12bit	114/114/75 Hz		
13.	Minimum Interframe time	500 ns		
14.	Noise	2 e^-		

15.	Operating temperature	-10°C to +40°C		
16.	Power requirement	Power over CXP		
17.	Lens mount	C-mount		
18.	Application	Particle Tracking Velocimetry, Image Intensifier Imaging, Light sheet fluorescence Microscopy, etc.		
19.	Digital frame	Grabber CoaXPress-12 2.0		
20.	Synchronization board	PTU X, standard type, external housing		
21.	DAVIS software	version 11, 64 bit, image acquisition and processing		
22.	Warranty	12 months		