



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076.

PR No. 1000039946 Rfx No. 6100001718:

Detailed Technical Specifications of CMOS High Speed Camera (Qty: 1 Nos):

Sr. No.	Description	Value / Range	Compliance (Yes/No)	Additional Information if any
1.	Sensor type	CMOS with correlated double sampling. COLOR		
2.	Sensor resolution	1.2 MP or higher		
3.	Frames per Second	<u>Standard mode:</u> 8000 fps or more @1.2MP 44000 fps or more @ 640X240 (Equivalent) 81000 fps or more @ 640X120 (Or its equivalent) <u>Binned mode:</u> (Hardware to support increased frame rate with the higher sensitivity) 57,000 fps or more @ 640X240 96000 fps or more @ 640X120		
4.	Maximum Frame rate at Minimum Resolution	3,28,000 fps or more		
5.	Memory	18 GB or higher		
6.	Record Time for 1. 8000fps @1.2MP 2. 44000 fps @640X240 3. 81000 fps@640X120	1.2 Sec or more 1.7 Sec or more 1.9 Sec or more		

7.	EMVA 1288 Measurements Testing's standards or equivalent	1. QE more than 50% & more than 60% for binned. 2. Max. SNR (dB): 40-45		
8.	Exposure time	1.1µs or less		
9.	Frame straddle	Option enabled with time of 750 ns or lower, Supports Burst mode.		
10.	Pixel Size	18 µm or lower and binning mode 36 µm or lower		
11.	Bit Depth	12-bit or higher		
12.	Operating Temperature	-10 to 50 °C		
13.	Acceptable Interface	Ethernet/HDMI		
14.	Power Supply	Necessary power cable and communication cable		
15.	Software	Software for camera control, download, Setup & analysis		
16.	Demo	Onsite demo of the quoted or equivalent model on their own expense during technical evaluation.		
17.	Lens Mount	F-mount.		
18.	Weight	4 Kgs or less		
19.	Accessories	Include Ethernet cable, Adapter, Power cable required for the camera operation		
20.	Warranty of the product	1 year		