



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

PR NO. 1000039943

RFX No.: 6100001717

**Technical specifications for PIV camera (1 Unit)**

Sr.No.	Description	Value / Range	Technical Compliance (YES/ NO)	Additional Information (if any)
1	Sensor type	New generation Back-illuminated CMOS sensors		
2	Sensor resolution	2440 x 2040 pixels or higher		
3	Pixel size	< 3 $\mu$ m		
4	Spectral range	400 nm - 900 nm		
5	Full well capacity	> 9000 e-		
6	Max. QE	~ 70% @ 532 nm		
7	Noise	< 5 e-		
8	Digital output	8 and 12 bit		
9	Single frame rate @ 8 bit	>120 Hz		
10	Double frame rate @ 8 bit	>54 Hz		
11	Single frame rate @ 12 bit	> 80 Hz		
12	Double frame rate @ 12 bit	> 30 Hz		
13	Min. Interframe time	500 ns or lower		
14	Interface	CoaXPress-12		
15	Cable length	At least 10 m		
16	Mount	C-Mount		
17	Should include a grabber card			
18	Should integrate with the existing LaVision Stereo PIV system			
19	Warranty	One year		