

### Camera specifications

Sr. No.	Specifications	Value
1.	Sensor	1" CMOS
2.	Resolution	> 19 Mega Pixels
3.	Pixels	> 5300 x 3600
4.	Pixel size	≤ 2.5 μm
5.	Image Area	> 13 mm x > 8.5 mm (diagonal > 15.7 mm)
6.	Shutter Mode	Rolling
7.	Exposure Time	100 μs-100s or better
8.	Frames per second (Max at full resolution)	> 16
9.	ADC resolution	≥ 10-bit
10.	Quantum Efficiency (Peak)	> 80%
11.	Relative Quantum Efficiency	≥ 0.7 @400-700 nm
12.	Read Noise (RMS)	< 3.1e- @0-30 dB gain
13.	Full Well	> 12 ke- @ 0dB gain
14.	Buffer	≥ 256 MB
15.	Buffer Memory Type	DDR3 or better
16.	Cooler	Regulated two-stage TEC
17.	Delta T	> 40 °C below ambient
18.	Protection window	Bubble-free glass with anti-reflection coating
19.	Back Focus Distance	< 7 mm
20.	Dimensions of camera	< 80 mm, in every dimension (< 80 x < 80 x < 80)
21.	Cooler Power Consumption	3A (max) @ 12V
22.	Interface	USB
23.	Supported OS	Windows and Linux
24.	Working Temperature	0 to 45 °C
25.	Storage Temperature	0 to 60 °C
26.	Required Accessories	<ul style="list-style-type: none"> <li>a. Suitable T-mount and adapters</li> <li>b. 12V 5A AC to DC Adapter with Indian standard plug</li> <li>c. Holding ring for the camera</li> <li>d. LabVIEW drivers/APIs for camera configuration, control and operation</li> </ul>

**General Requirements and instructions to vendors:**

1. The vendor must be the authorized seller of the OEM parts.
2. The vendors must only quote for the brand-new part.
3. The vendor should provide the datasheet and relevant manuals of the part.
4. The vendor should provide point-by-point compliance to the specifications with proper reference to the datasheet.