

37U Series DFM 37UX252-ML

- IMX252 CMOS Pregius Sensor
- 3.1 MP
- USB3 Vision / UVC compliant
- Trigger and I/Os
- M12x0.5 mount



The 37U series camera DFM 37UX252-ML with a Sony IMX252 sensor delivers 119 frames per second with a resolution of 2048x1536 (3.1 MP).

32U Series: These next-generation USB 2.0 board-level cameras offer modern camera architecture and are designed for cost-sensitive OEM and streamlined image processing tasks. The cameras feature onsemi sensors and offer a variety of connector options for maximum flexibility in a wide range of space-constrained applications.

The USB3 Vision standard allows for rapid integration into new and existing applications via The Imaging Source's [IC Imaging Control 4 SDK](#) as well as most other third-party image processing libraries.

Note: This Data Sheet is intended to provide a summary overview for an individual camera model. The Imaging Source's website also offers information on spectral sensitivity, dimensional diagrams, sensor data sheets, STEP files as well as our full product catalog. For comprehensive technical information, please refer to the Technical Reference Manual specific to each camera model.

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1 Quick Facts

General	
Vision Standard	USB3 Vision (UVC compliant)
Dynamic Range	12 bit
Resolution	2048x1536
Frame Rate at Full Resolution	119

Optical Interface	
IR-Cut filter	No
Sensor Type	Sony IMX252LQR-C
Shutter Type	Global
Sensor Format	1/1.8 inch
Pixel Size	3.45 μm
Lens Mount	M12x0.5

Electrical Interface	
Interface	USB 3.1gen1
Supply Voltage	4.75 VDC to 5.25 VDC
Current Consumption	approx 420 mA @ 5 VDC

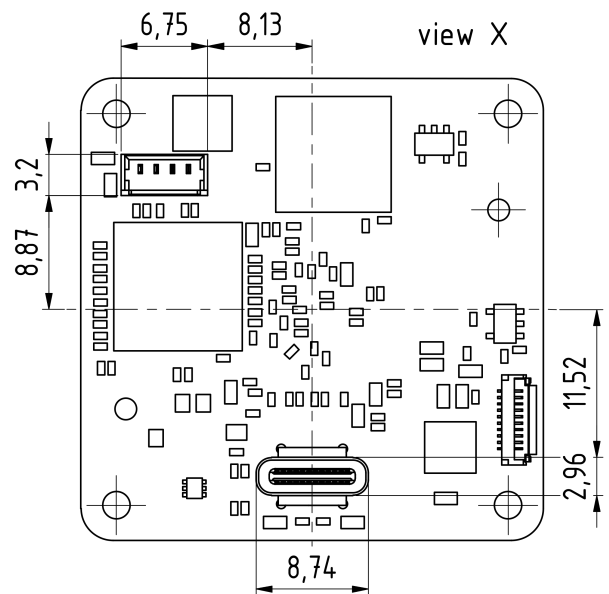
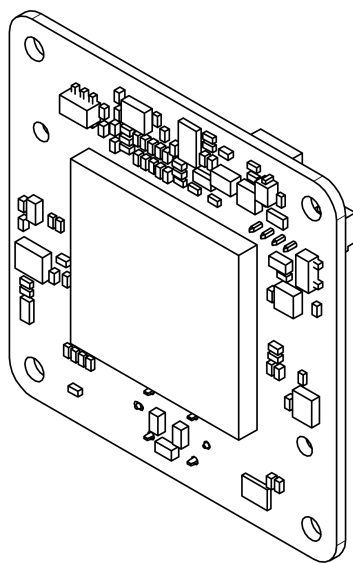
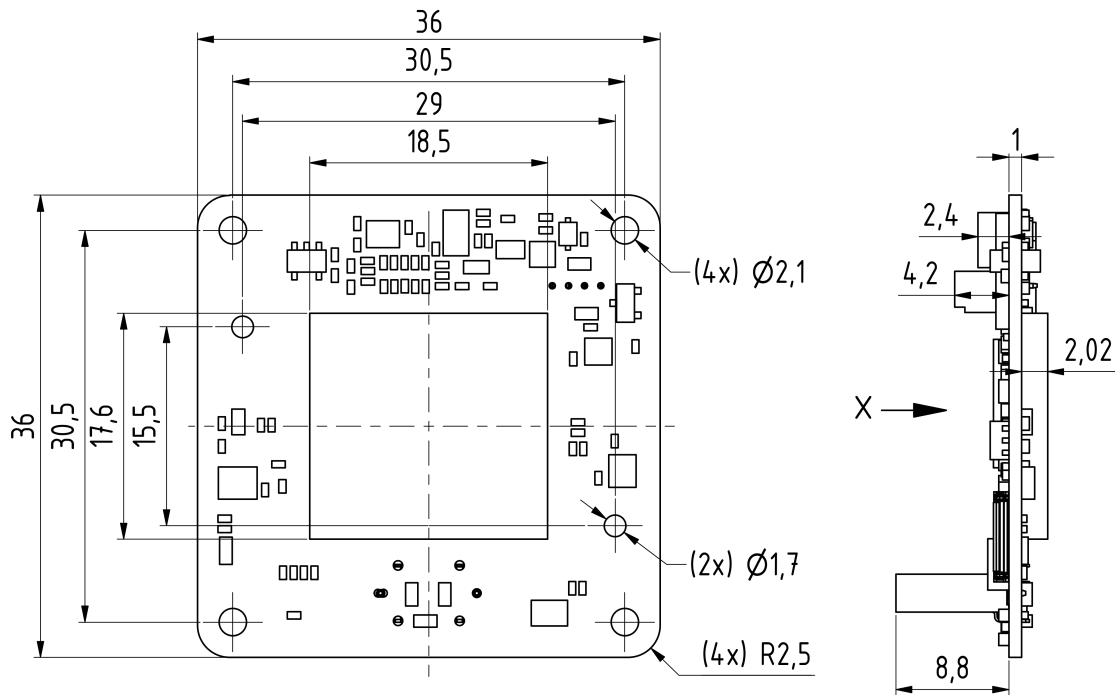
Mechanical Data	
Dimensions	H: 36 mm, W: 36 mm, L: 15 mm
Mass	7 g

Environmental Conditions	
Temperature (operating)	-5 °C to 45 °C
Temperature (storage)	-20 °C to 60 °C
Humidity (operating)	20 % to 80 % (non-condensing)
Humidity (storage)	20 % to 95 % (non-condensing)



2 Dimensional Diagrams

2.1 DFM 37UX252-ML



Scale: 2:1
 Dimensions: mm
 Tolerances: DIN ISO 2768m





3 Spectral Characteristics

3.1 Spectral Sensitivity - IMX252LQR-C

Sensor: Sony IMX250/252/264/265 - courtesy of Sony Deutschland GmbH

