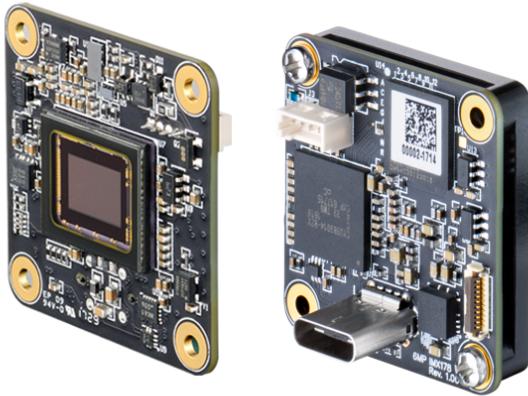




37U Series DFM 37UX178-ML

- IMX178 CMOS STARVIS Sensor
- 6.3 MP
- USB3 Vision / UVC compliant
- Trigger and I/Os
- M12x0.5 mount



The 37U series camera DFM 37UX178-ML with a Sony IMX178 sensor delivers 60 frames per second with a resolution of 3072x2048 (6.3 MP).

The Imaging Source's 37 Series board-level cameras feature a range of Sony and onsemi sensors with resolutions up to 12MP, as well as trigger, I/O, and connector options, providing maximum flexibility for developers and OEMs. The cameras' small footprint and reversible USB-C connector make them well-suited for space-constrained designs for applications in industrial automation, mobile robotics, and medical equipment.

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.

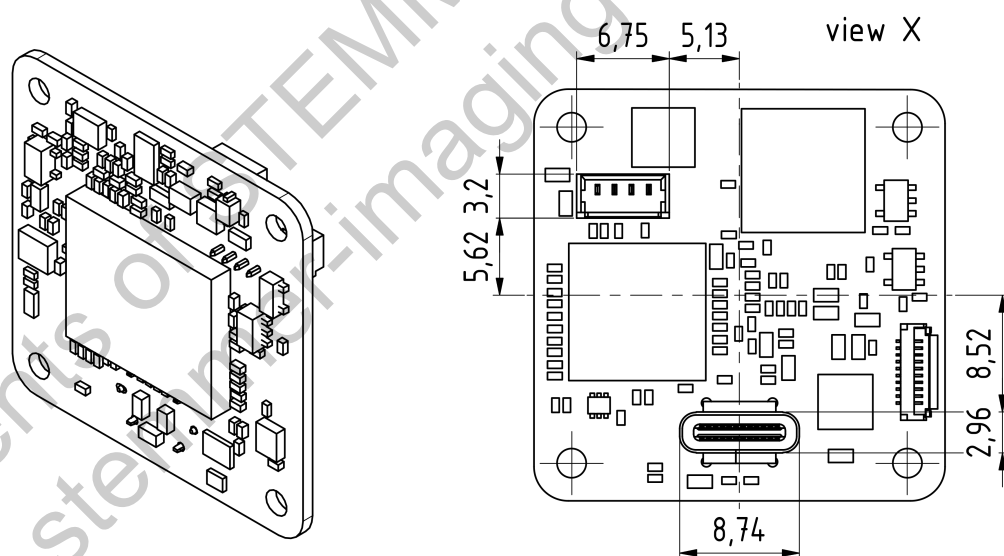
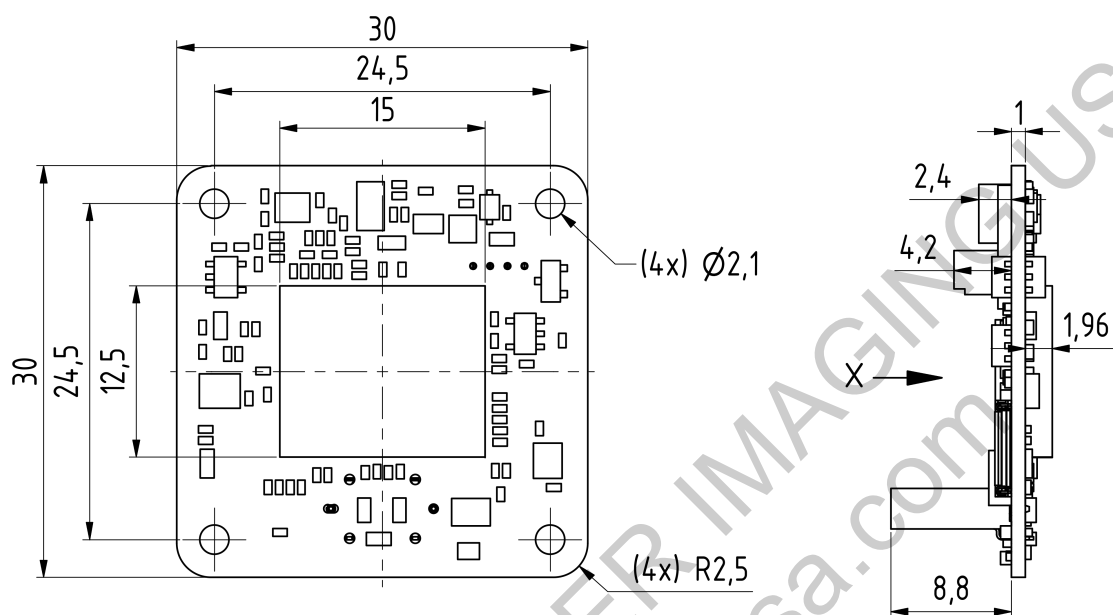
www.theimagingsource.com

1 Quick Facts

General	
Vision Standard	USB3 Vision (UVC compliant)
Dynamic Range	12 bit
Resolution	3072x2048
Frame Rate at Full Resolution	60
Optical Interface	
IR-Cut filter	No
Sensor Type	Sony IMX178LQJ-C
Shutter Type	Rolling
Sensor Format	1/1.8 inch
Pixel Size	2.4 μ m
Lens Mount	M12x0.5
Electrical Interface	
Interface	USB 3.1gen1
Supply Voltage	4.75 VDC to 5.25 VDC
Current Consumption	approx 320 mA @ 5 VDC
Mechanical Data	
Dimensions	H: 30 mm, W: 30 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 37UX178-ML



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



3 Spectral Characteristics

3.1 Spectral Sensitivity - IMX178LQJ-C

Sensor: Sony IMX178 - courtesy of Sony Deutschland GmbH

