

## 37U Series DFM 37UX250-ML

- IMX250 CMOS Pregius Sensor
- 5 MP
- USB3 Vision / UVC compliant
- Trigger and I/Os
- M12x0.5 mount



The 37U series camera DFM 37UX250-ML with a Sony IMX250 sensor delivers 75 frames per second with a resolution of 2448x2048 (5 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.

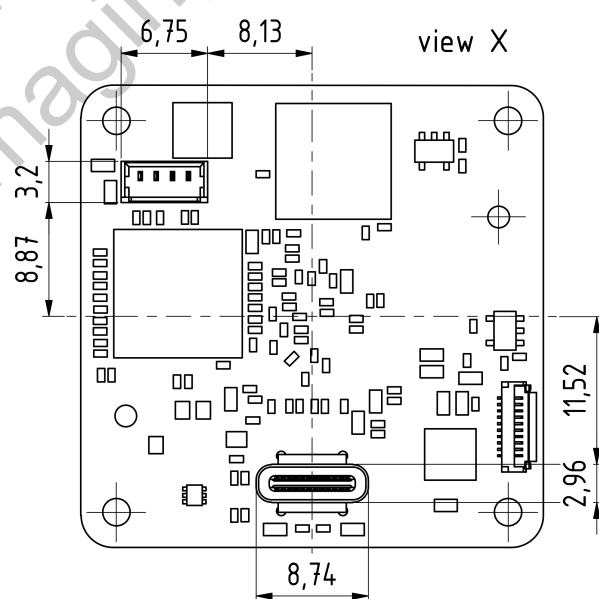
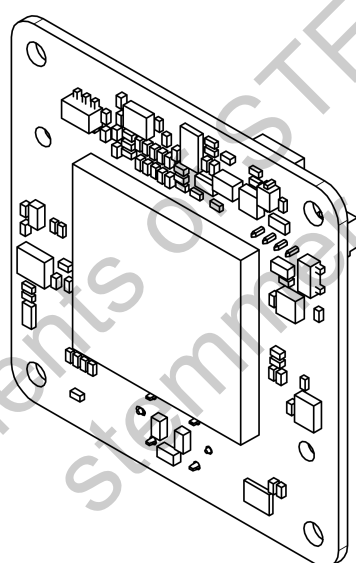
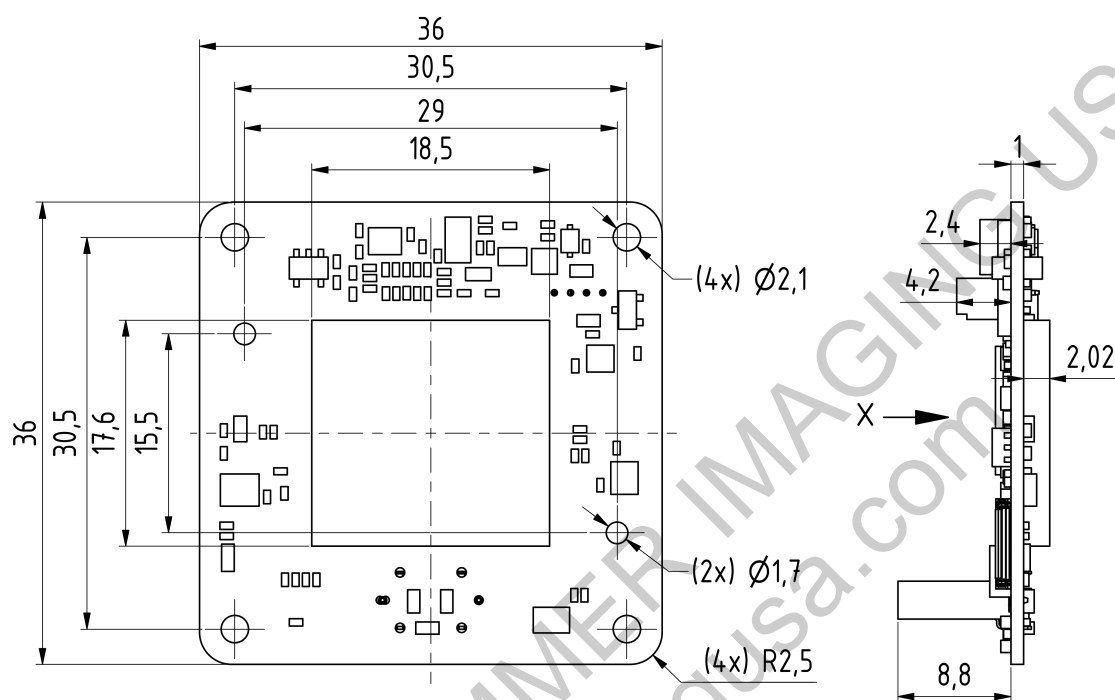
[www.theimagingsource.com](http://www.theimagingsource.com)

## 1 Quick Facts

| General                       |                               |
|-------------------------------|-------------------------------|
| Vision Standard               | USB3 Vision (UVC compliant)   |
| Dynamic Range                 | 12 bit                        |
| Resolution                    | 2448x2048                     |
| Frame Rate at Full Resolution | 75                            |
| Optical Interface             |                               |
| IR-Cut filter                 | No                            |
| Sensor Type                   | Sony IMX250LQR-C              |
| Shutter Type                  | Global                        |
| Sensor Format                 | 2/3 inch                      |
| Pixel Size                    | 3.45 $\mu\text{m}$            |
| Lens Mount                    | M12x0.5                       |
| Electrical Interface          |                               |
| Interface                     | USB 3.1gen1                   |
| Supply Voltage                | 4.75 VDC to 5.25 VDC          |
| Current Consumption           | approx 410 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 37UX250-ML



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



## 3 Spectral Characteristics

### 3.1 Spectral Sensitivity - IMX250LQR-C

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

