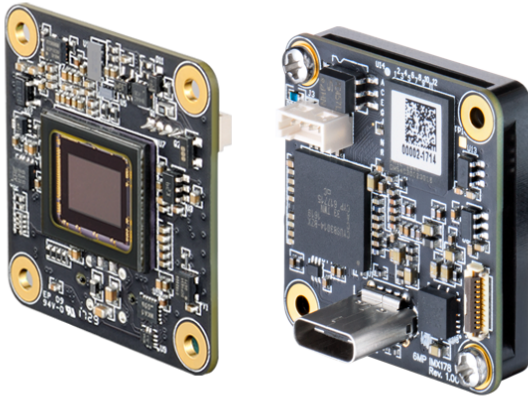




## 37U Series DFM 37UR2020-ML

- AR2020 CMOS Sensor
- 19.7 MP
- USB3 Vision / UVC compliant
- Trigger and I/Os
- M12x0.5 mount



The 37U series camera DFM 37UR2020-ML with a onsemi AR2020 sensor delivers 19 frames per second with a resolution of 5120x3840 (19.7 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.

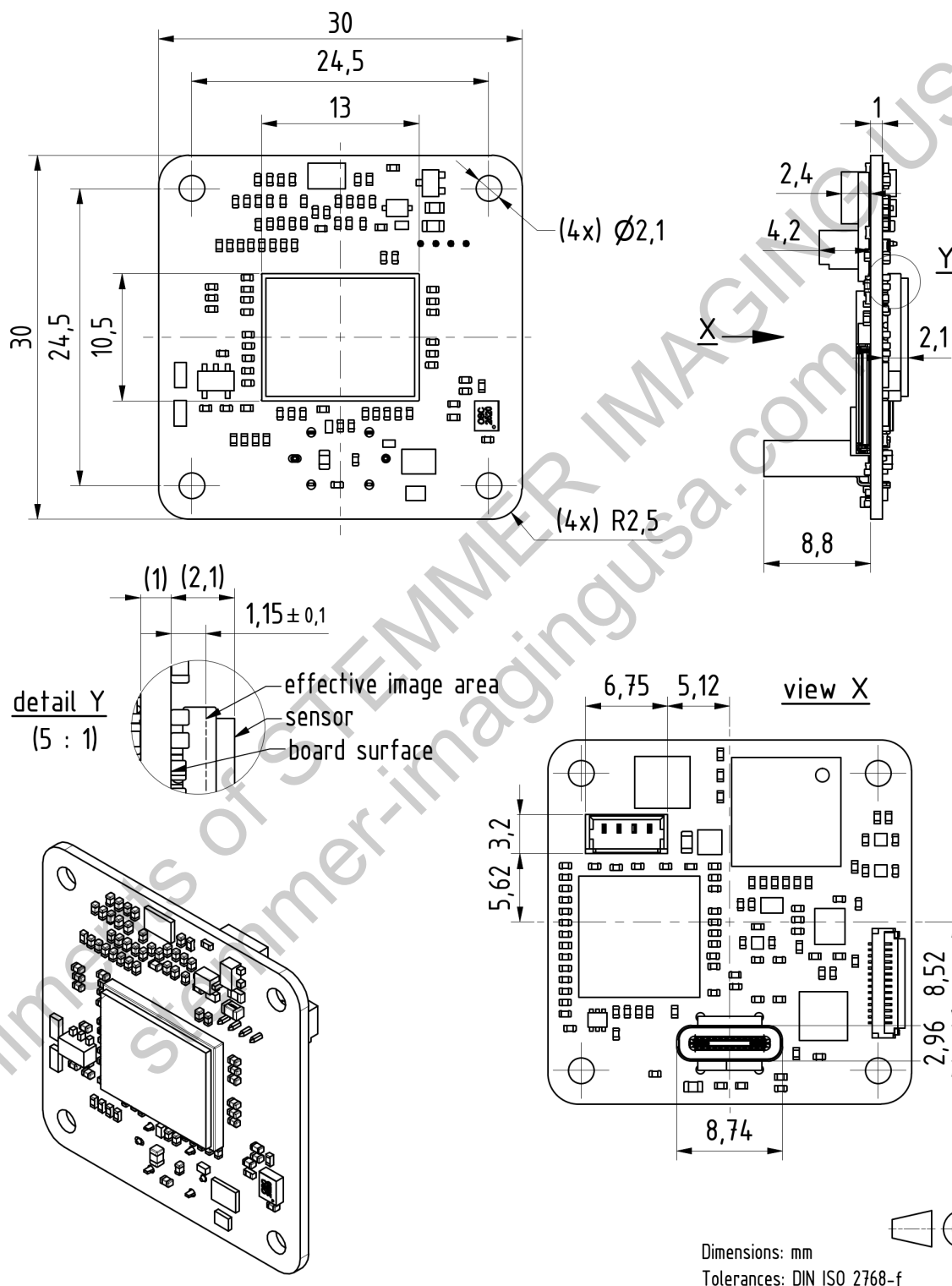
[www.theimagingsource.com](http://www.theimagingsource.com)

## 1 Quick Facts

| General                       |                               |
|-------------------------------|-------------------------------|
| Vision Standard               | USB3 Vision (UVC compliant)   |
| Dynamic Range                 | 10 bit                        |
| Resolution                    | 5120x3840                     |
| Frame Rate at Full Resolution | 19                            |
| Optical Interface             |                               |
| IR-Cut filter                 | No                            |
| Sensor Type                   | onsemi AR2020                 |
| Shutter Type                  | Rolling                       |
| Sensor Format                 | 1/1.8 inch                    |
| Pixel Size                    | 1.4 $\mu$ m                   |
| Lens Mount                    | M12x0.5                       |
| Electrical Interface          |                               |
| Interface                     | USB 3.1gen1                   |
| Supply Voltage                | 4.75 VDC to 5.25 VDC          |
| Current Consumption           | approx 280 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 37UR2020-ML



## 3 Spectral Characteristics

### 3.1 Spectral Sensitivity - AR2020

Sensor: onsemi AR2020 *courtesy of onsemi*

