Data Sheet - DMK 37AUX287

37U Series

DMK 37AUX287

- IMX287 CMOS Pregius Sensor
- 0.4 MP
- USB3 Vision / UVC compliant
- Trigger and I/Os
- C/CS mount

The 37U series camera DMK 37AUX287 with a Sony IMX287 sensor delivers 539 frames per second with a resolution of 720x540 (0.4 MP).

37U Series: Featuring a range of Sony and onsemi sensors with resolutions up to 12MP, these cost-optimized, single-board industrial cameras are available in several form factor variants, providing a flexible customization concept for systems engineers and OEMs. These streamlined, standard-feature cameras offer a reduced hardware footprint with USB-C connector and optional hardware trigger and I/Os.

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	10 bit
Resolution	720x540
Frame Rate at Full Resolution	539

Optical Interface	
IR-Cut filter	No
Sensor Type	Sony IMX287LLR-C
Shutter Type	Global
Sensor Format	1/2.9 inch
Pixel Size	6.9 µm
Lens Mount	C/CS

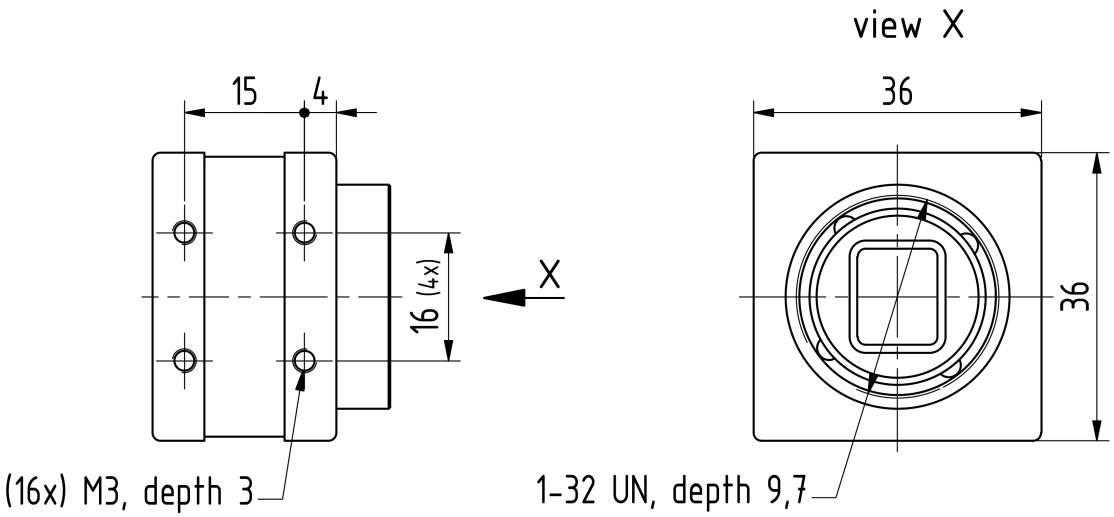
Electrical Interface	
Interface	USB 3.1gen1
Supply Voltage	4.75 VDC to 5.25 VDC
Current Consumption	approx 380 mA @ 5 VDC

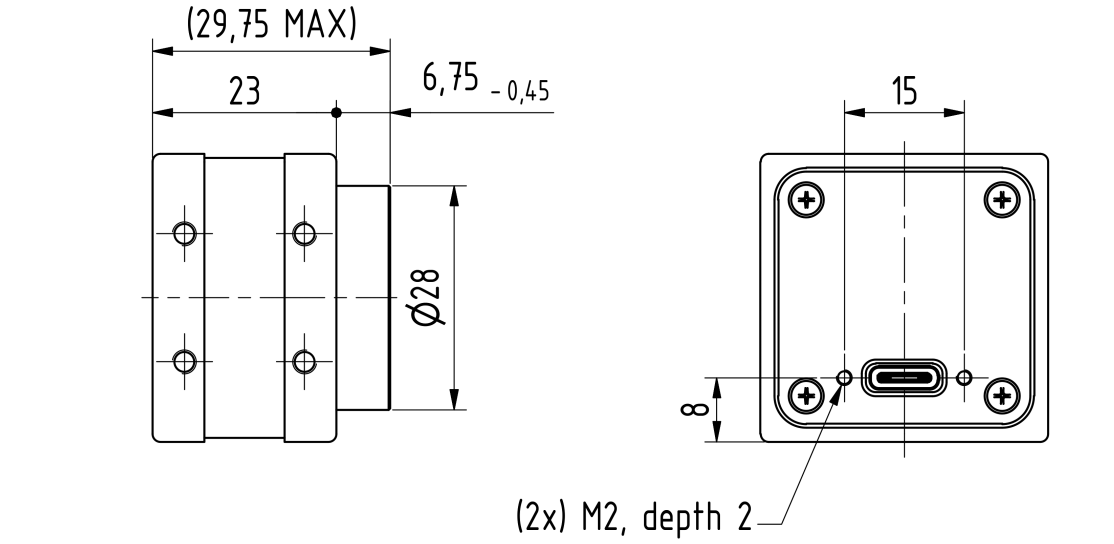
Mechanical Data	
Dimensions	H: 36 mm, W: 36 mm, L: 25 mm
Mass	70 g

Environmental Conditions	
Housing Temperature (operating)	-5 °C to 50 °C
Temperature (storage)	-20 °C to 80 °C
Humidity (operating)	20 % to 80 % (non-condensing)
Humidity (storage)	20 % to 95 % (non-condensing)

2 Dimensional Diagrams

2.1 DMK 37AUX287 C-Mount without Tripod Adapter





Dimensions: mm
Tolerances: DIN ISO 2768-f

3 Spectral Characteristics

3.1 Spectral Sensitivity - IMX287LLR-C