37U Series

DFK 37AUX06A

- IMX06A CMOS Sensor
- 50.3 MP
- USB3 Vision / UVC compliant
- Trigger
- C Mount

The 37U series camera DFK 37AUX06A with a Sony IMX06A sensor delivers 7.5 frames per second with a resolution of 8192x6144 (50.3 MP).

37U Series: Featuring a range of Sony and onsemi sensors with resolutions up to 50MP, 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)
Resolution	8192x6144
Dynamic Range	10 bit
Frame Rate at Full Resolution	7.5

Optical Interface	
IR-Cut filter	Yes
Sensor Type	Sony IMX06A
Shutter Type	Rolling
Sensor Format	1/0.98 inch
Pixel Size	1.6 µm
Lens Mount	C

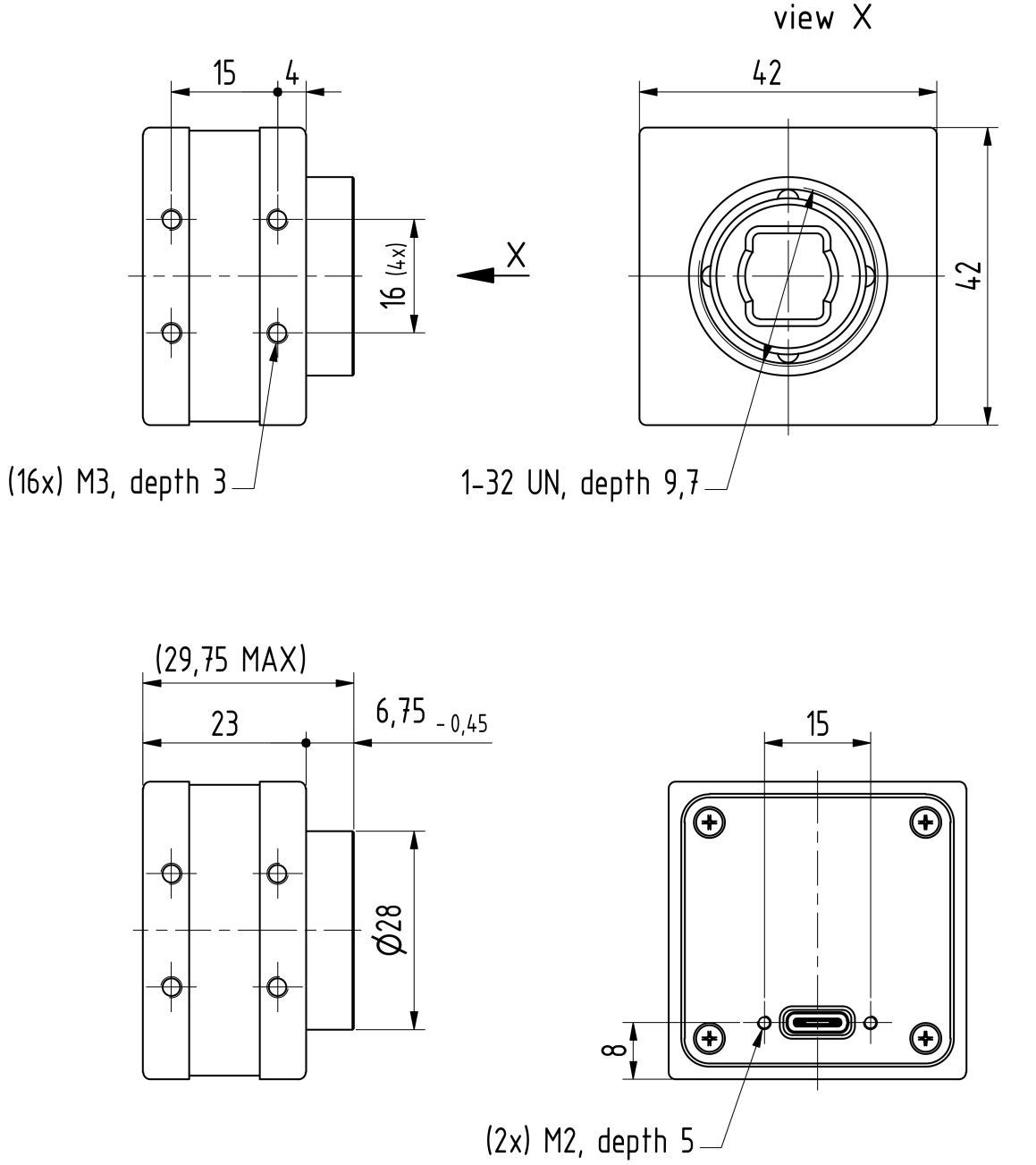
Electrical Interface	
Interface	USB 3.1gen1
Supply Voltage	4.75 VDC to 5.25 VDC
Current Consumption	approx 400 mA @ 5 VDC

Mechanical Data	
Dimensions	H: 42 mm, W: 42 mm, L: 25 mm
Mass	76 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)

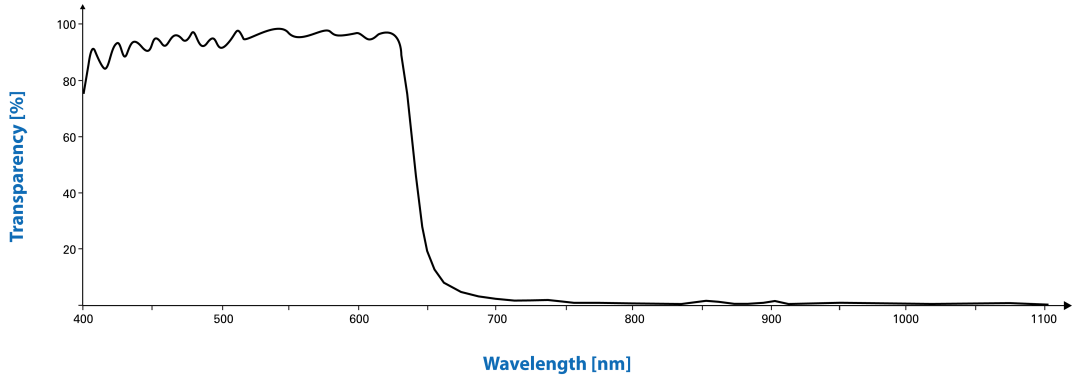
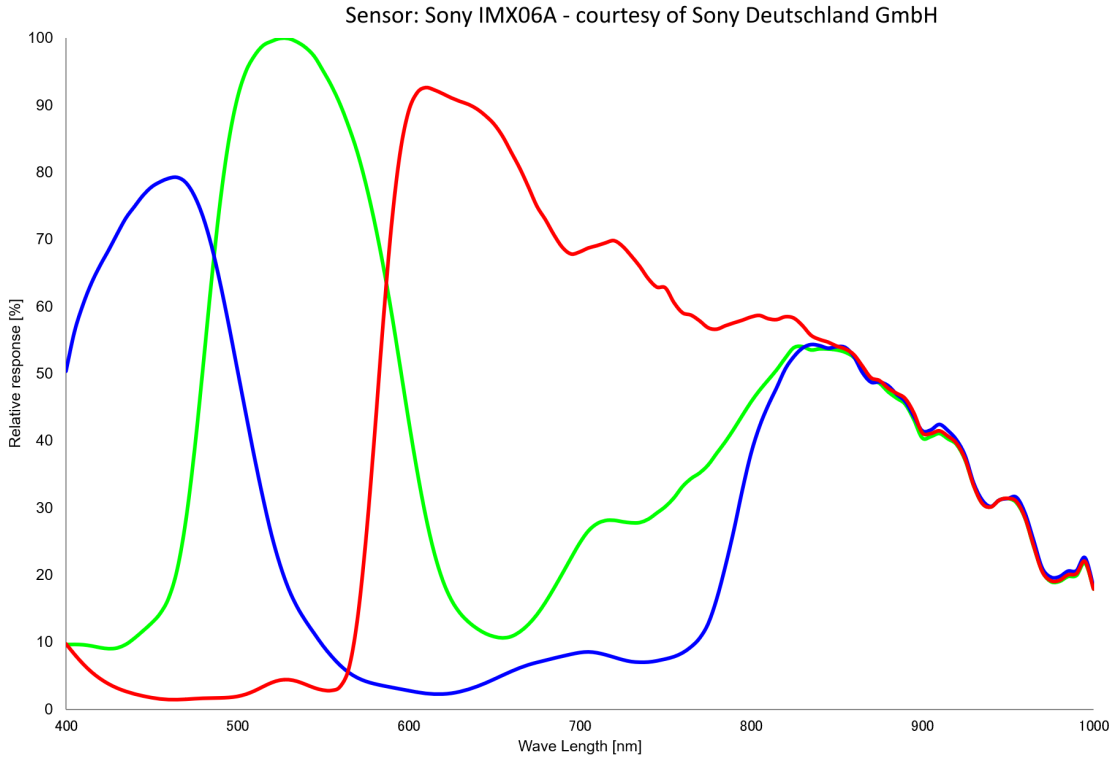
2 Dimensional Diagrams

2.1 DFK 37AUX06A C-Mount without Tripod Adapter



3 Spectral Characteristics

3.1 IR-Cut Filter



3.2 Spectral Sensitivity - IMX06A