



37U Series

DFK 37BUR0521

- AR0521 CMOS Sensor
- 5 MP
- USB3 Vision / UVC compliant
- Trigger and I/Os
- C/CS mount



The 37U series camera DFK 37BUR0521 with a onsemi AR0521 sensor delivers 60 frames per second with a resolution of 2592x1944 (5 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	12 bit
Resolution	2592x1944
Frame Rate at Full Resolution	60

Optical Interface	
IR-Cut filter	Yes
Sensor Type	onsemi AR0521
Shutter Type	Rolling
Sensor Format	1/2.5 inch
Pixel Size	2.2 µm
Lens Mount	C/CS

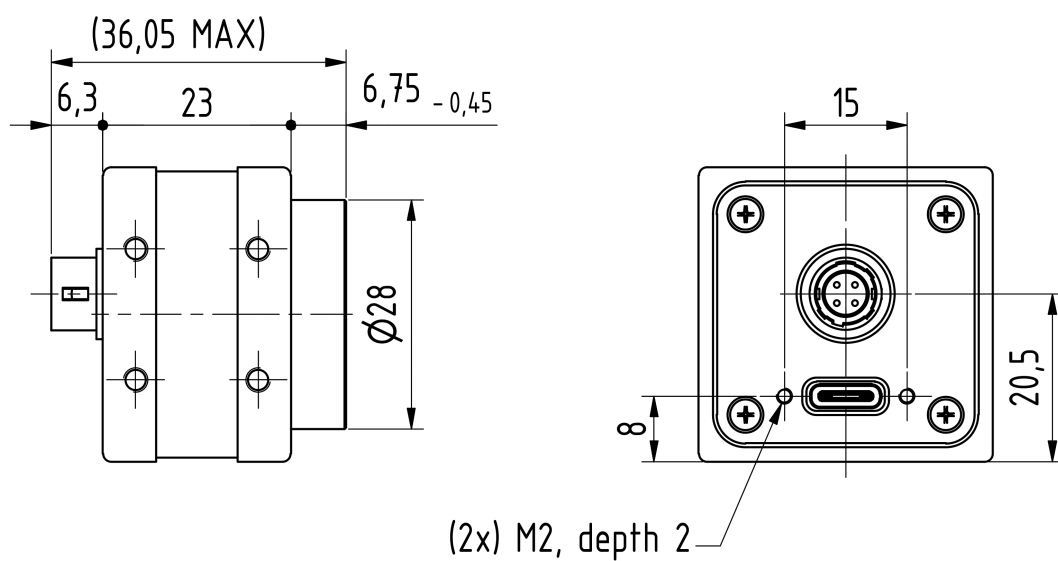
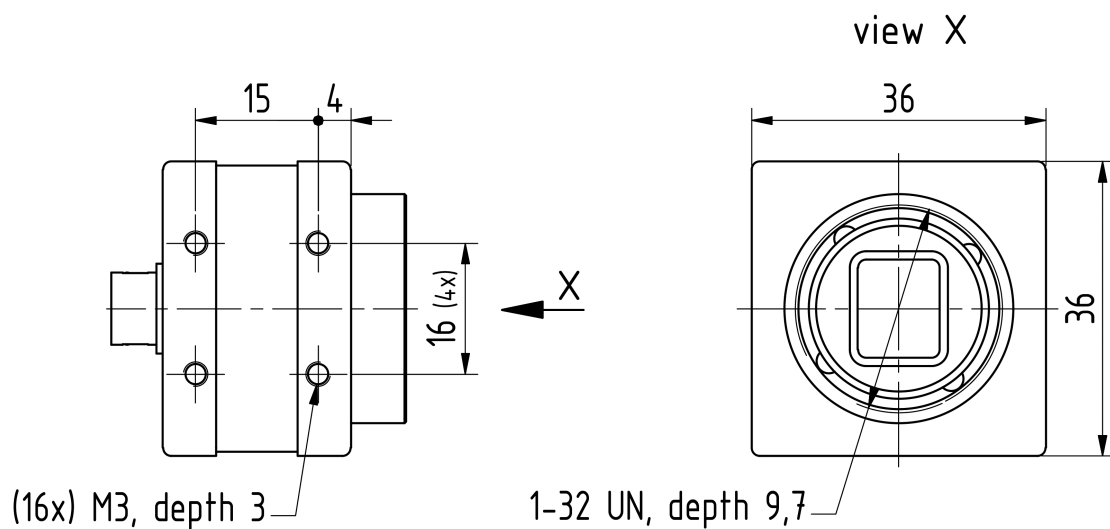
Electrical Interface	
Interface	USB 3.1gen1
Supply Voltage	4.75 VDC to 5.25 VDC
Current Consumption	approx 310 mA @ 5 VDC
I/O Connector	4-pin connector for trigger and strobe or general purpose input/output

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

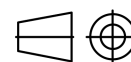
Environmental Conditions	
Housing Temperature (operating)	-5 °C to 50 °C
Temperature (storage)	-20 °C to 80 °C
Humidity (operating)	20 % to 80 % (non-condensing)
Humidity (storage)	20 % to 95 % (non-condensing)

2 Dimensional Diagrams

2.1 DFK 37BUR0521 C-Mount without Tripod Adapter

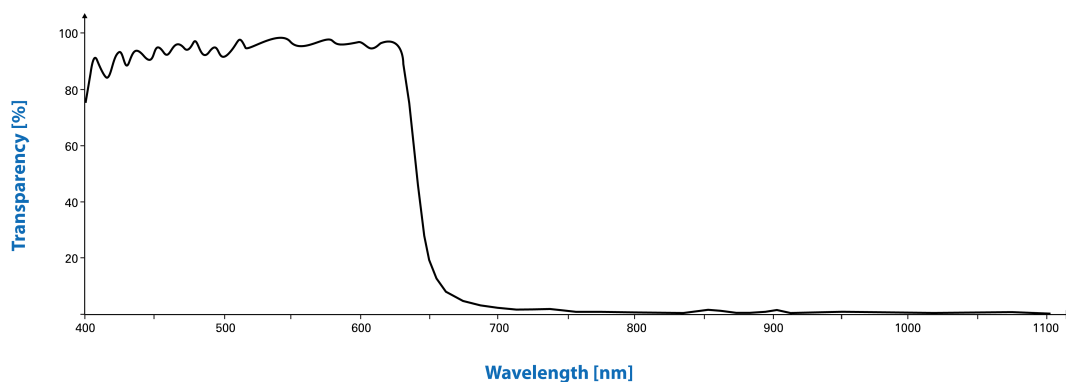


Dimensions: mm
Tolerances: DIN ISO 2768-f



3 Spectral Characteristics

3.1 IR-Cut Filter



3.2 Spectral Sensitivity - AR0521

