33U Series

DFK 33UP2000

- PYTHON 2000 CMOS Python Sensor
- 2.3 MP
- USB3 Vision / UVC compliant
- Trigger and I/Os
- C/CS mount

The 33U series camera DFK 33UP2000 with a onsemi PYTHON 2000 sensor delivers 129 frames per second with a resolution of 1920x1200 (2.3 MP).

33U Series: The Imaging Source's largest selection of industrial cameras offers developers and integrators a broad selection of resolutions (up to 20 MP) and frame rates to meet diverse application needs and are ideal for continuous operation in industrial environments. The cameras' USB 3 interface (Micro-B connector) ensures efficient data transfer with high frame rates.

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	1920x1200
Frame Rate at Full Resolution	129

Optical Interface	
IR-Cut filter	Yes
Sensor Type	onsemi P2000
Shutter Type	Global
Sensor Format	2/3 inch
Pixel Size	4.8 µm
Lens Mount	C/CS

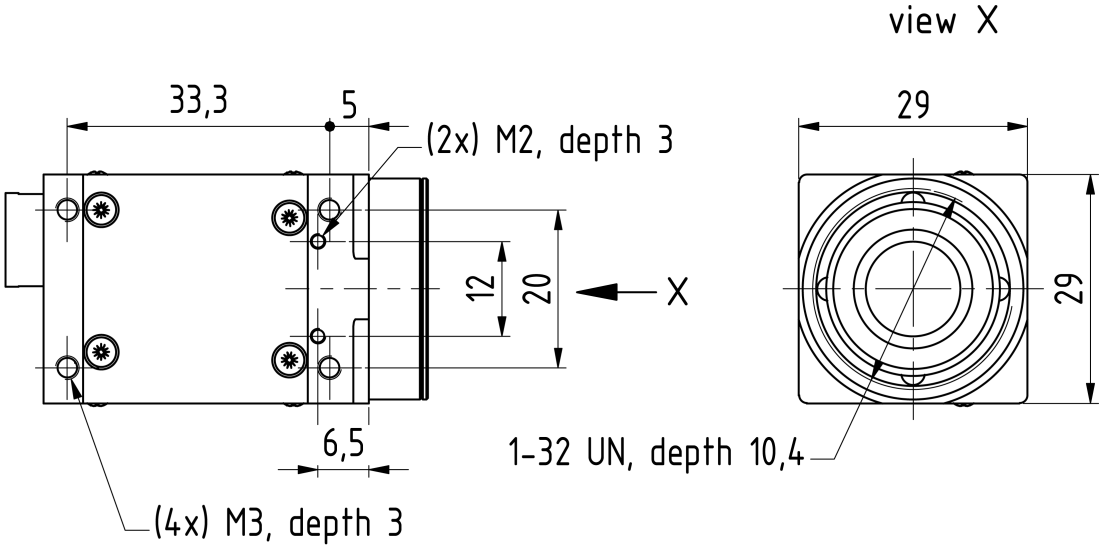
Electrical Interface	
Interface	USB 3.0
Supply Voltage	4.75 VDC to 5.25 VDC
Current Consumption	approx 900 mA @ 5 VDC
I/O Connector	12-pin connector for trigger and strobe or general purpose input/output

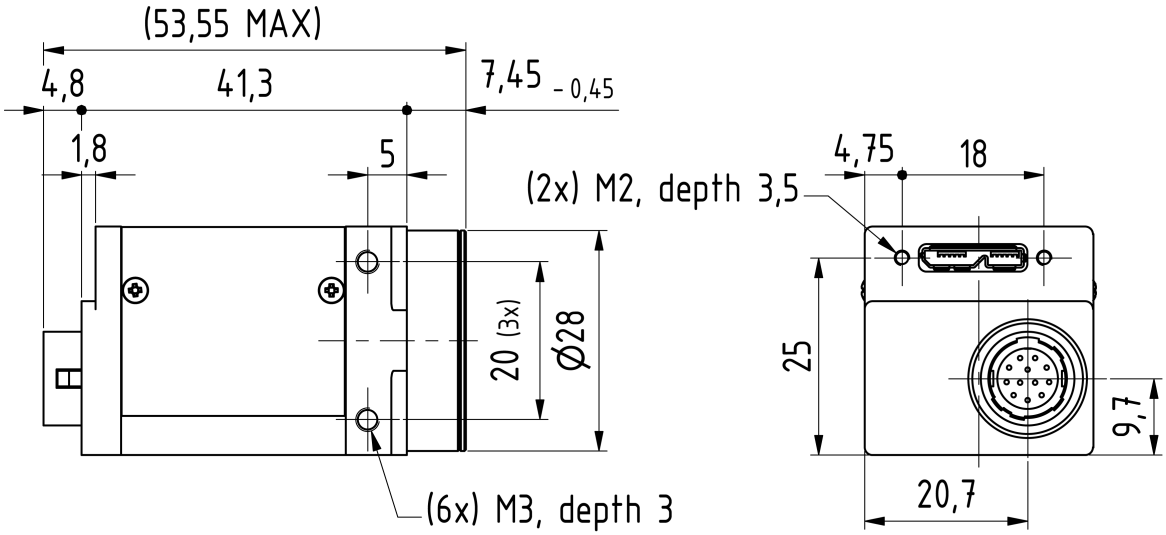
Mechanical Data	
Dimensions	H: 29 mm, W: 29 mm, L: 43 mm
Mass	65 g

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 33UP2000 C-Mount without Tripod Adapter

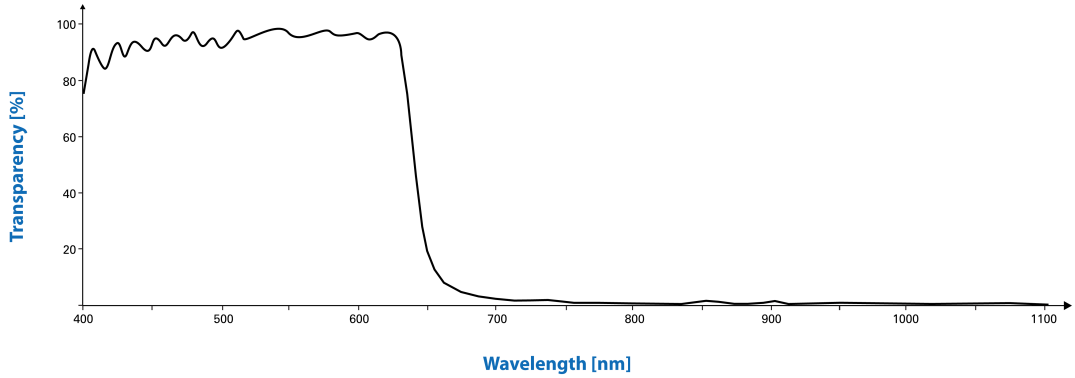
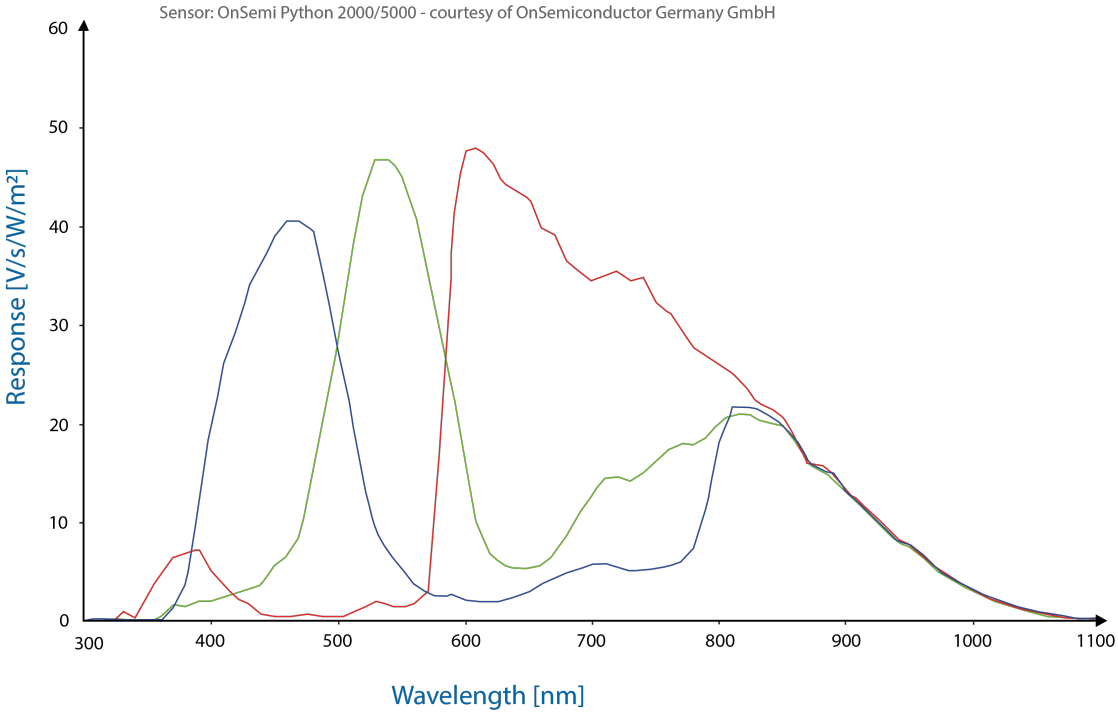




Dimensions: mm
Tolerances: DIN ISO 2768-f

3 Spectral Characteristics

3.1 IR-Cut Filter



3.2 Spectral Sensitivity - P2000