



33G Series

DFK 33GX290

- IMX290 CMOS STARVIS Sensor
- 2.1 MP
- GigE Vision compliant
- Trigger and I/Os
- C/CS mount



The 33G series camera DFK 33GX290 with a Sony IMX290 sensor delivers 56 frames per second with a resolution of 1920x1080 (2.1 MP).

33G 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' GigE interface allows for extended cable lengths (up to 100 m) without sacrificing image quality or performance.

The GigE 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.

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1 Quick Facts

General	
Vision Standard	GigE Vision
Dynamic Range	12 bit
Resolution	1920x1080
Frame Rate at Full Resolution	56

Optical Interface	
IR-Cut filter	Yes
Sensor Type	Sony IMX290LQR-C
Shutter Type	Rolling
Sensor Format	1/2.8 inch
Pixel Size	2.9 μm
Lens Mount	C/CS

Electrical Interface	
Interface	GigE
Supply Voltage	11 VDC to 13 VDC or PoE: 48 VDC to 56 VDC
Current Consumption	approx 400 mA @ 12 VDC
I/O Connector	6-pin connector for power supply, trigger and strobe or general purpose input/output

Mechanical Data	
Dimensions	H: 29 mm, W: 29 mm, L: 57 mm
Mass	65 g

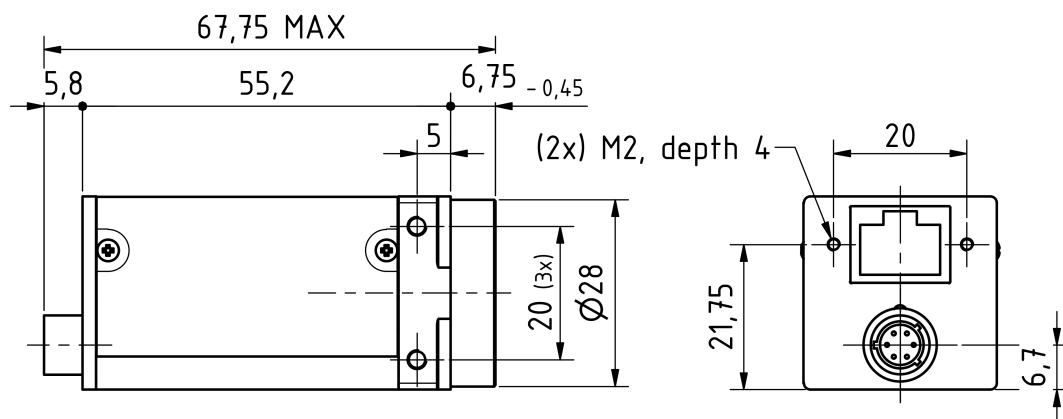
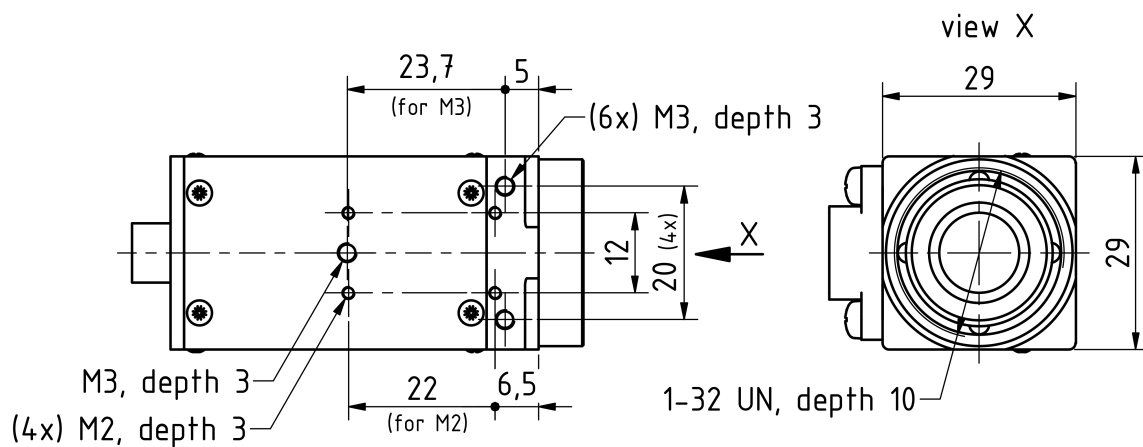
Environmental Conditions	
Housing Temperature (operating)	-5 °C to 50 °C
Temperature (storage)	-20 °C to 80 °C
Humidity (operating)	20 % to 80 % (non-condensing)
Humidity (storage)	20 % to 95 % (non-condensing)



Dimensional Diagrams

2 Dimensional Diagrams

2.1 DFK 33GX290 C-Mount without Tripod Adapter



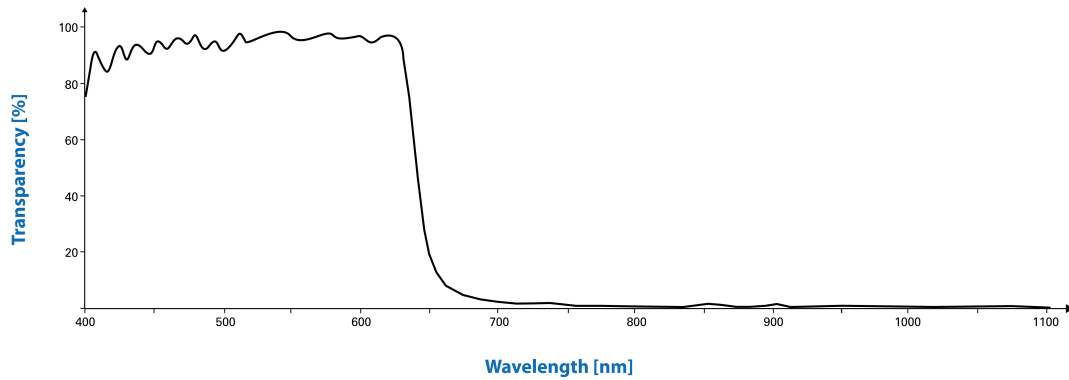
Dimensions: mm
Tolerances: DIN ISO 2768m





3 Spectral Characteristics

3.1 IR-Cut Filter



3.2 Spectral Sensitivity - IMX290LQR-C

Sensor: Sony IMX290 - courtesy of Sony Deutschland GmbH

