



AcM 36DR0234-I67 Technical Reference Manual



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1 Quick Facts

General	
Dynamic Range	10 bit
Resolution	1920x1200
Frame Rate at Full Resolution	100 *
Pixel Formats	10-Bit Monochrome

*) Assuming the deserializer is connected to the host with 4 data lanes at 2500 Mbps each.

Optical Interface	
Sensor Type	ON Semiconductor AR0234CS
Shutter Type	Global
Sensor Format	1/2.6 inch
Pixel Size	3.0 μm

Electrical Interface	
Interface	GMSL2 via FAKRA connector
Supply voltage	10-27V
Current consumption	approx 100 mA @ 12 VDC

Mechanical Data	
Dimensions	H: 36 mm, W: 36 mm, L: 60.3 mm
Mass	80 g
Protection Class	IP6K6, IP6K7 (ISO 20653) *

*) Protection only while The Imaging Source IP67 FAKRA cable is connected to the camera.

Adjustments	
Shutter	15 μs to 0.25 s
Gain	0 dB to 19,2 dB



Environmental	
Temperature (operating)	-5 °C to 45 °C
Temperature (storage)	-20 °C to 60 °C
Humidity (operating)	20 % to 80 % (non-condensing)
Humidity (storage)	20 % to 95 % (non-condensing)



2 Electrical Characteristics

2.1 Absolute Maximum Ratings

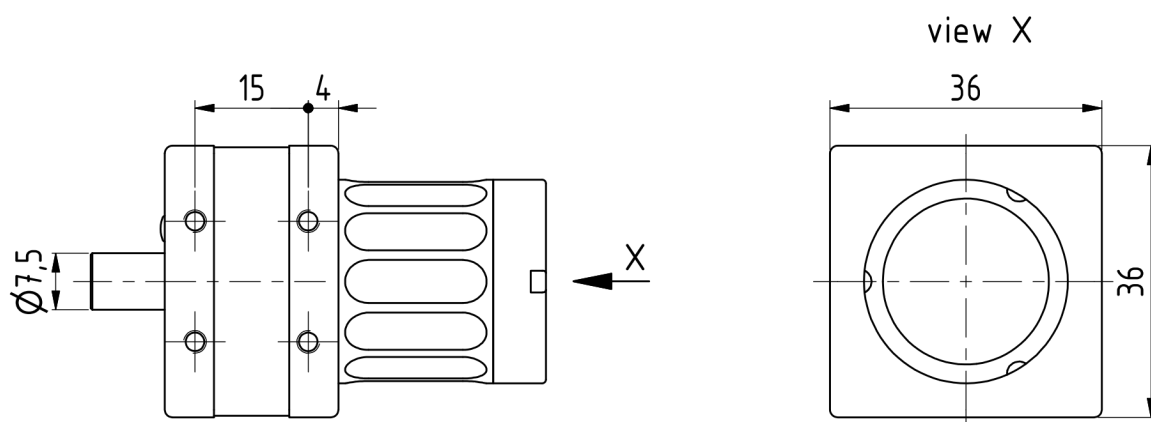
Item	Symbol	Pins	Min	Max	Unit
Supply voltage	V_COAX		-0.3	+27.0	V

2.2 Recommended Operating Conditions

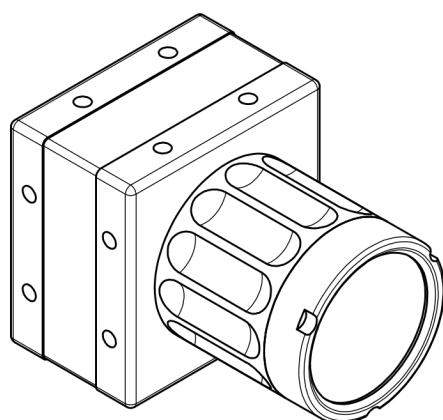
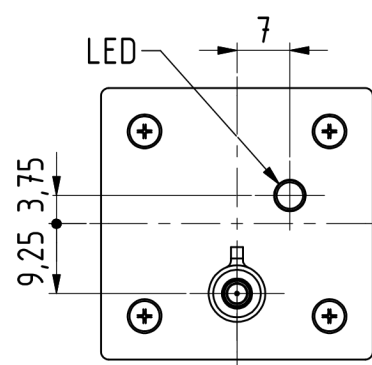
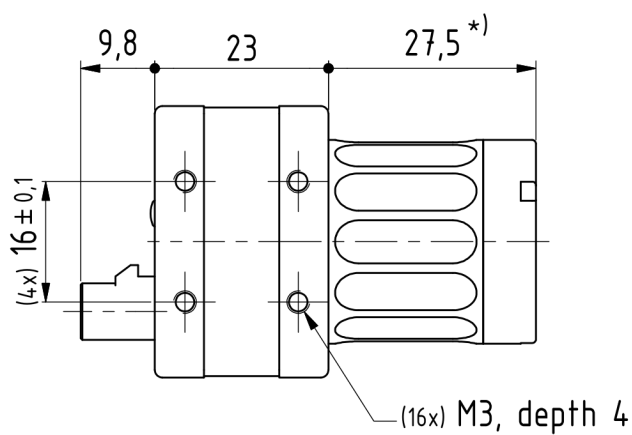
Item	Symbol	Pins	Min	Typ	Max	Unit
Supply voltage	V_COAX		10.0	12.0	24.0	V

3 Dimensional Diagrams

3.1 AcM 36DR0234-I67 without Tripod Adapter



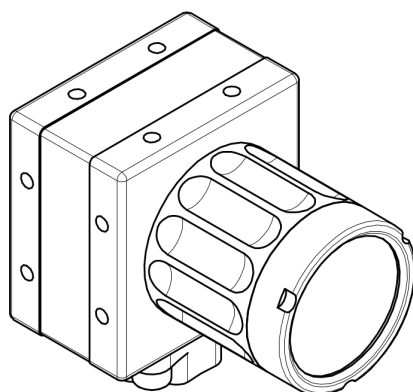
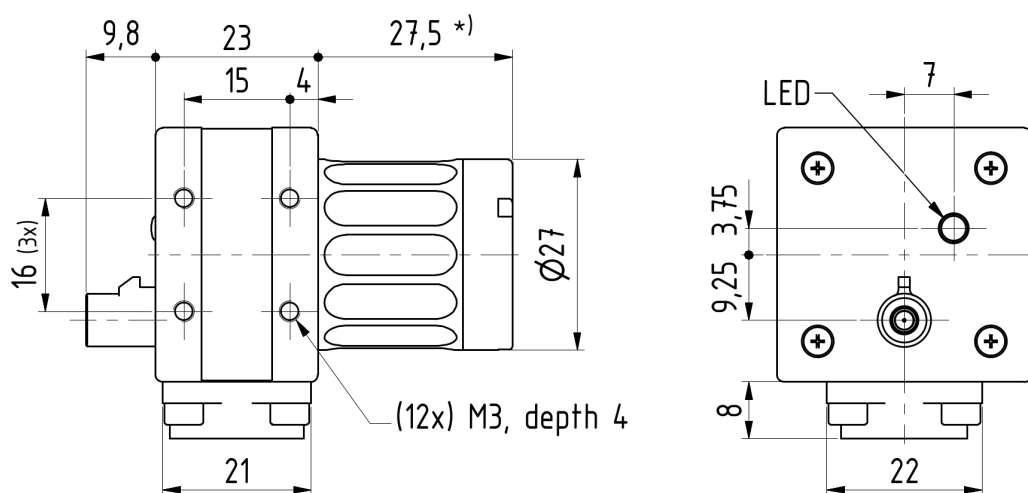
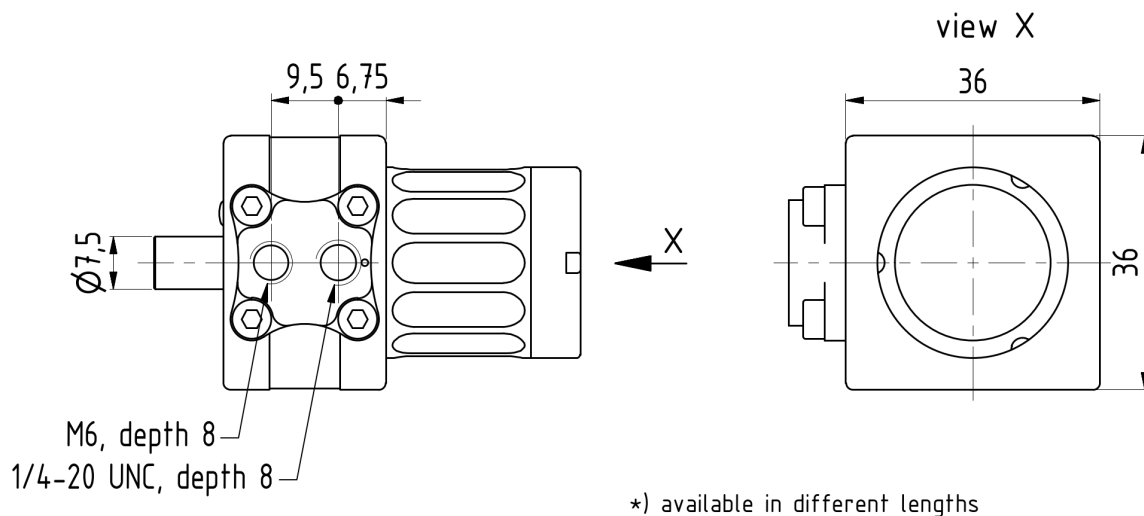
*) available in different lengths



Scale: 1 : 1
 Dimensions: mm
 Tolerances: DIN ISO 2768-m
 275-20-1-01-00-c (w/o tripod-adapter)



3.2 AcM 36DR0234-I67 with Tripod Adapter



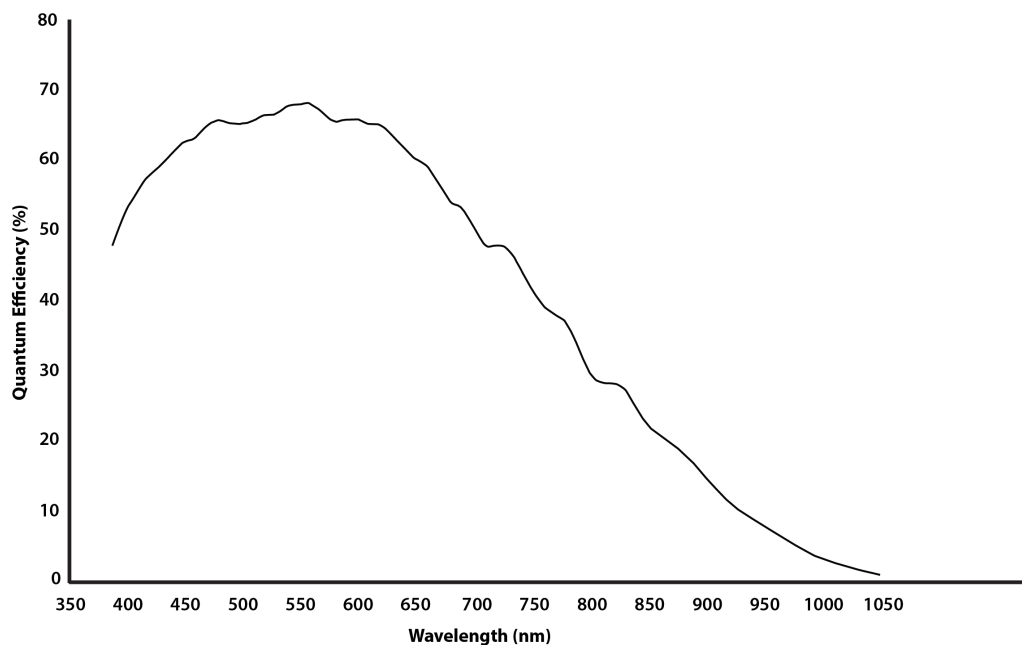
Scale: 1:1
 Dimensions: mm
 Tolerances: DIN ISO 2768-f
 275-20-1-01-00-c



4 Spectral Characteristics

4.1 Spectral Sensitivity - AR0234CS

Sensor: ON Semiconductor AND9658/D - *courtesy of ON Semiconductor*



5 I2C Devices

There are multiple I2C devices on the AcM 36DR0234-I67 sensor board. The following table describes the parts and their I2C addresses:

Address (7-bit)	Device	Description
0x10	AR0234CS	Image Sensor
0x40	MAX9295A	GMSL2 Serializer
0x44	LCMXO3L-1300E	I2C Mapping and Sensor Control FPGA
0x50	AT24C256C	EEPROM



6 Software Support

The Imaging Source provides driver packages for camera access on supported platforms. The driver documentation for the JetPack driver can be found here: [theimagingsource-drivers Documentation](#).

6.1 Further Assistance

For more detailed information, register settings and using the camera on other platforms, please contact [The Imaging Source](#).



AcM 36DR0234-I67

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Last update: October 2025

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All weights and dimensions are approximate. Unless otherwise specified, the lenses shown in the context of cameras are not shipped with these cameras.

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