Data Sheet - ViM 43GR2020



Visus Series

ViM 43GR2020

- AR2020 CMOS Sensor
- 19.7 MP
- GigE Vision compliant
- Trigger and I/Os
- C Mount

The Visus series camera ViM 43GR2020 with a OnSemi AR2020 sensor delivers 9 frames per second with a resolution of 5120x3840 (19.7 MP).

The Imaging Source's Visus series GigE cameras are built to meet the demands of modern machine vision, delivering performance, efficiency, and integration flexibility. With a compact industrial housing and streamlined internal architecture, Visus series cameras enable high-performance imaging with a reduced hardware footprint.

The series offers seamless integration into existing GigE Vision and GenICam-based workflows, minimizing engineering overhead and accelerating time to market. Lower power draw and efficient thermal design reduce system complexity and help keep integration simple. Whether you're designing high-throughput inspection systems or scaling industrial automation, Visus series cameras provide a reliable and future-proof platform to support your machine vision applications.

The GigEVision 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	GigE Vision
Resolution	5120x3840
Dynamic Range	10 bit
Frame Rate at Full Resolution	9

Optical Interface	
IR-Cut filter	No
Sensor Type	OnSemi AR2020
Shutter Type	Rolling
Sensor Format	1/1.8 inch
Pixel Size	1.4 µm
Lens Mount	C

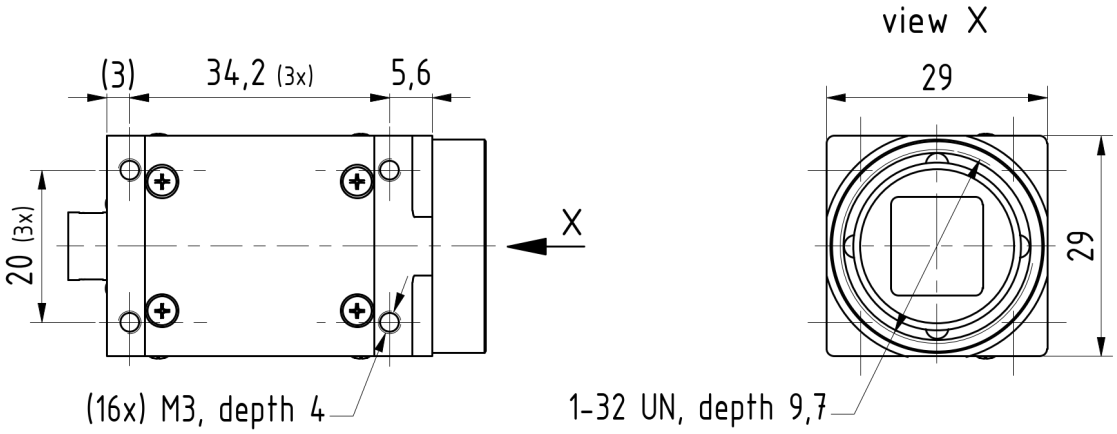
Electrical Interface	
Interface	GigE
Supply Voltage	8 VDC to 25 VDC or PoE: 48 VDC to 56 VDC
Current Consumption	approx 150 mA @ 12 VDC
Power Consumption	approx 2.3 W PoE

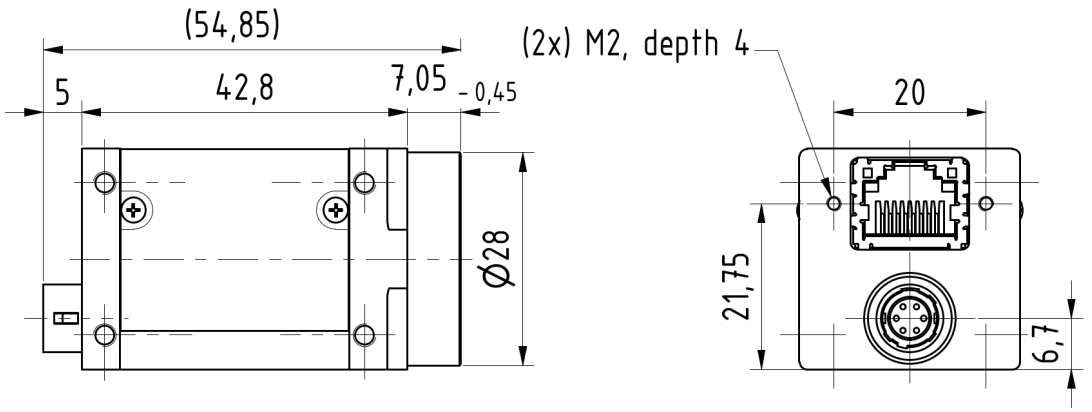
Mechanical Data	
Dimensions	H: 29 mm, W: 29 mm, L: 44 mm
Mass	63 g

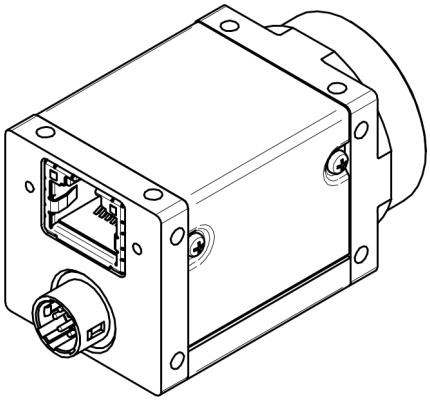
Environmental Conditions	
Housing Temperature (operating)	0 °C to 55 °C
Temperature (storage)	-20 °C to 80 °C
Humidity (operating)	20 % to 80 % (non-condensing)
Humidity (storage)	20 % to 95 % (non-condensing)

2 Dimensional Diagrams

2.1 ViM 43GR2020 C-Mount without Tripod Adapter







Scale: 1 : 1
Dimensions: mm
Tolerances: DIN ISO 2768-m
310-24-03-00-00-b

3 Spectral Characteristics

3.1 Spectral Sensitivity - AR2020

Sensor: onemi AR2020 *courtesy of onsemi*

