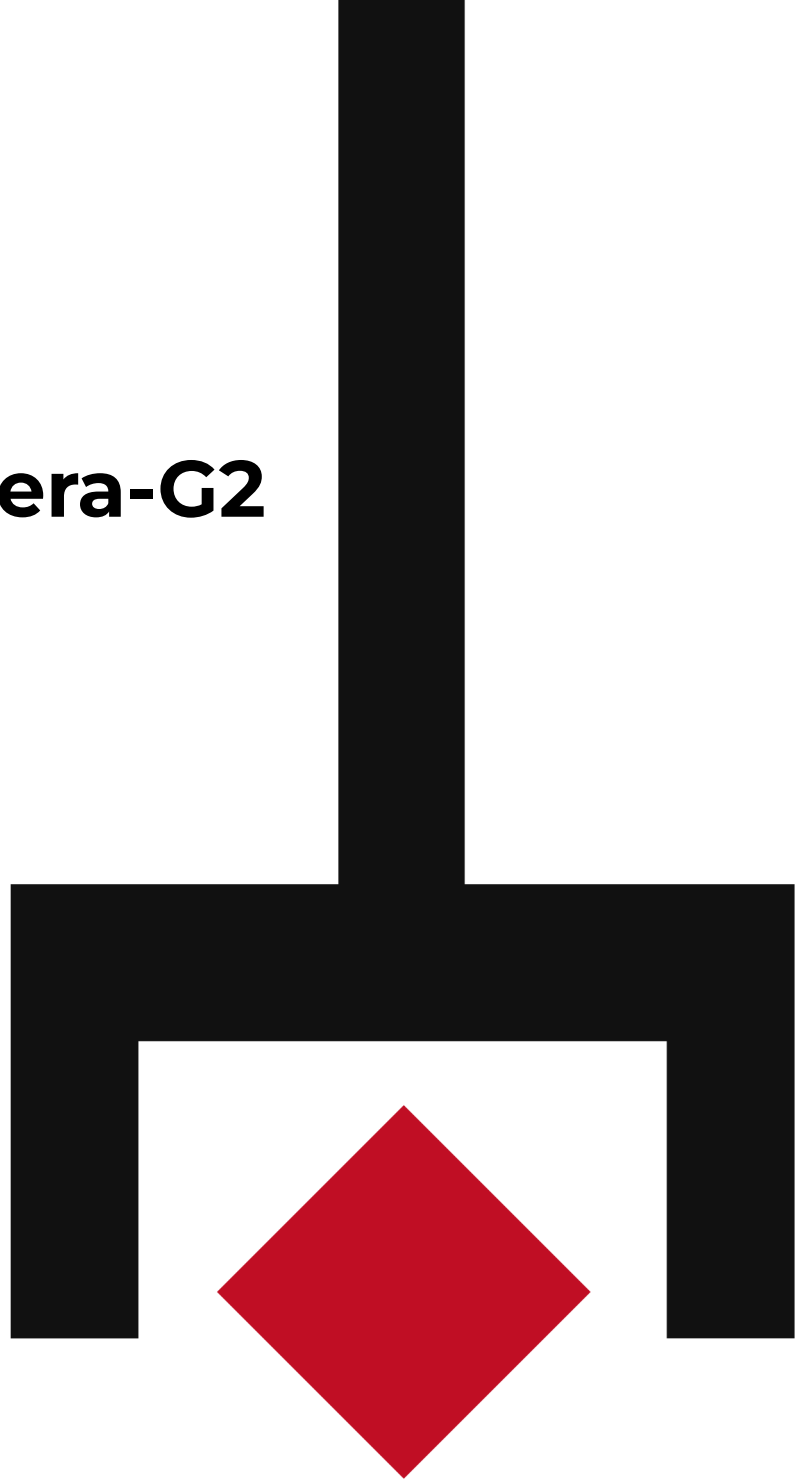




Product specification

Eureka 3D Camera-G2





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1 FEATURE OVERVIEW



1 Feature Overview



The Eureka 3D Camera-G2 is a high-performance stereo vision camera engineered for demanding industrial automation and computer vision applications.

- **AI-Powered Depth Reconstruction:** Advanced AI models for accurate 3D point cloud generation.
- **High-Resolution Imaging:** Captures detailed images at up to 1920x1080 resolution.
- **Industrial-Grade Design:** Robust construction suitable for manufacturing environments.
- **Flexible Configuration:** Adjustable parameters for various working distances and applications.
- **Power-over-Ethernet:** Simplified installation with PoE support.
- **Factory-Calibrated:** Pre-calibrated intrinsic parameters for immediate deployment.

1.1 Supported Models

Parameter	ECA2-156-N	ECA2-156-F
Usage note	Table top picking	Table top picking with low-latency requirement
Focus distance	800 mm	800 mm
Recommended working distance	500-1200 mm	500-1200 mm
FOV @ 0.5m	300 x 255 mm	250 x 305 mm
FOV @ 1.2m	950 x 620 mm	830 x 740 mm
Resolution (max)	1920x1080	1440x1080
Typical capture time	0.5 - 1.2 s	0.1 - 1.2 s

1.2 Communication Protocols

Protocol	Description
GigE Vision	Standard interface for industrial cameras
Power-over-Ethernet	IEEE 802.3af/at compliant

2 HARDWARE SPECIFICATIONS



2 Hardware Specifications

Parameter	Specification
Physical Properties	
Weight	ECA2-156-N: 2.7 kg, ECA2-156-F: 2.6 kg
Dimensions (W×H×D)	250 x 165 x 60 mm
Baseline	156 mm
Mounting	4 x M5x16 countersunk screws (T-nuts not included)
Environmental	
Operating temperature	0°C - 50°C
Storage temperature	-20°C - 60°C
Humidity	95% @ 40°C (non-condensing)
Optical	
Sensor type	CMOS
Resolution	ECA2-156-N: 1920x1080, ECA2-156-F: 1440x1080
Pixel size	3.45 µm x 3.45 µm
Lens focal length	6 mm
Electrical	
Power supply	Power-over-Ethernet (PoE) IEEE 802.3af/at
Power consumption	Max 15W
Interface	Gigabit Ethernet (RJ45)
Trigger modes	Software, Hardware
Performance	
Typical capture time	ECA2-156-N: 0.5-1.2s, ECA2-156-F: 0.1-1.2s
Depth reconstruction	AI-based with downloadable models
Output formats	BGR image, Depth map, Point cloud, Stereo image pair

3 SOFTWARE REQUIREMENTS



3 Software Requirements

Component	Requirement
Eureka Controller GUI	Version 0.94 or later recommended
ML Studio account	Required for downloading AI models and calibration files
AI Models	Downloadable via Eureka IP Configurator