



Vision Cam AI

SMART CAMERA WITH DEEP LEARNING ACCELERATOR

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Vision Cam AI is an embedded solution for image processing with which applications from the fields of AI, Deep Learning and Machine Learning can be easily realised. With its integrated Google Edge TPU, the real-time inference system supports the frameworks TensorFlow Lite and AutoML Vision Edge. This makes it ideally suited for tasks such as pattern recognition, classification, anomaly or defect detection in inspection applications, code reading and many other custom applications.

Key Features

- Embedded deep-learning based machine vision system with Coral Edge TPU
- 5MP
- Ultra compact and powerful
- Free programmable
- Simple use of digital Inputs and Outputs



Processor

Type	Quad Core ARM Cortex-A53
Processor Clock	4 x 1.8 GHz
DDR RAM	2 GB DDR4
Mass Storage	1 x μ SD Card \geq 32 GB

Interfaces

Ethernet	1000 Mbit/s
Digital In/Out	2 x Input / 4 x Output, opto-isolated, 24V

Sensor

Optical Size	1/1.8"	1/1.8"
Resolution	2560 x 1936 pixels	2560 x 1936 pixels
Pixel Size	2.8 μ m	2.8 μ m
Framerate	53 fps	53 fps
Partial Scan	yes	yes
Color	mono	color

Lens Properties

Lens Mount	C-Mount
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Mechanical / Electrical

Power Supply	21 VDC – 28 VDC	21 VDC – 28 VDC
Dimension W x H x D	50 mm x 50 mm x 40.8 mm	50 mm x 50 mm x 85.2 mm
Weight	205 g	300 g
Temperature Range	+ 5 to + 40 °C	+ 5 to + 40 °C
Ethernet Cable	0.5 m, M12 8 pin	0.5 m, M12 8 pin
I/O & Power Cable	0.5 m, M12 8 pin	0.5 m, M12 8 pin
Mounting	4 x M4	4 x M4

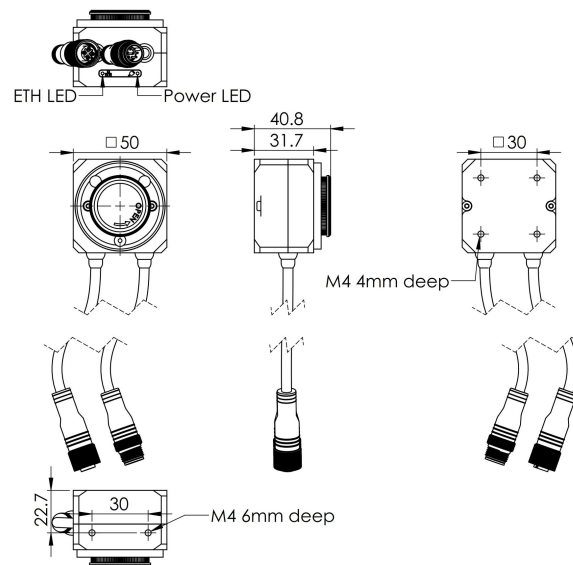
Documentation

Homepage	Link
SDK Documentation	Link
Hardware Manual	Link

LED Strobe

White LED	LED Ring Illumination
Pulse Duration	Synchronized with shutter

Dimensional Drawing



The smartest embedded vision components

For more than 30 years, IMAGO has been supplying machine vision technology to machine builders to improve product quality, make processes smoother, avoid production errors, reduce manufacturing costs and make systems more efficient.



What we do

With the focus on what counts for our customers, we develop hardware components for industrial image processing. Be it in factory automation, the printing industry, for the food and beverage industry, pharmaceutical or logistics industry. IMAGO supplies vision systems, smart cameras, vision sensors and the appropriate software for the optimized use of our products. We pay special attention to miniaturization, high frame rates, increasing computing power and environmentally friendly power consumption. These characteristics already distinguish our products today.

And we are proud of them.