IMAGO
TECHNOLOGIES

Vision Cam AI.go

INDUSTRIAL AI CAMERA

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The Vision Cam AI.go from IMAGO Technologies is a very flexible complete embedded deep learning based machine vision system. Vision Cam AI.go was developed for end-users with little or no experience in the fields of programming or machine vision – and for professionals able to integrate own rule based pre- or post-processing algorithms. The high flexibility of the deep learning camera Vision Cam AI.go allows the use of the system in numerous industrial areas of application in order to ensure a reliable check of quality features.

Key Features

- Complete embedded deep-learning based machine vision system.
- Provides classification of images or anomaly detection.
- No deep machine vision skills required.
- Learning of images inside the camera - no cloud access required.
- Option to integrate pre- or post-processing with the option to use the Halcon library.
- Intuitive web interface (HMI).
- Easy handling of parameters and settings.
- Simple use of digital Inputs and Outputs.
- Hardware, Software and AI designed in Europe.

Processor

Type	Quad Core ARM Cortex-A53
Processor Clock	4 x 1.8 GHz
DDR RAM	2 GB DDR4
Mass Storage	1 × µSD Card ≥ 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"	1/3"
Resolution	2560 x 1936 pixels	1920 x 1080 pixels
Pixel Size	2.8 µm	2.8 µm
Framerate	53 fps	115 fps
Partial Scan	yes	yes
Color	color	mono

Lens Properties

Lens Mount	C-Mount	C-Mount	S-Mount
Focal length	8mm	-	9 mm
Field of View (H x V)	16mm	-	≈ 34° × ≈ 20°

Mechanical / Electrical

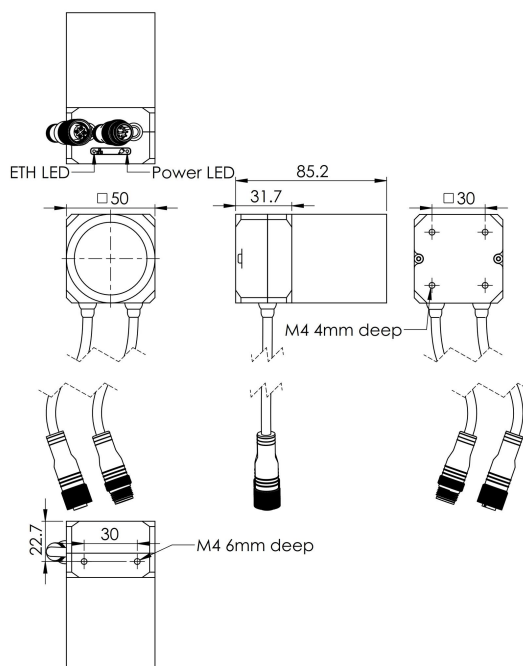| Power Supply	21 VDC − 28 VDC	21 VDC − 28 VDC	21 VDC − 28 VDC
Dimension W × H × D	50 mm x 50 mm x 85.2 mm	50 mm x 50 mm x 85.2 mm	50 mm x 50 mm x 58.7 mm
Weight	390 g	300 g	265 g
Temperature Range	+ 5 to + 40 °C	+ 5 to + 40 °C	+ 5 to + 40 °C
Ethernet Cable	0.5 m, M12 8 pin	0.5 m, M12 8 pin	0.5 m, M12 8 pin
I/O & Power Cable	0.5 m, M12 8 pin	0.5 m, M12 8 pin	0.5 m, M12 8 pin
Certification	IP50, CE	IP50, CE	IP50, CE
Mounting	4 x M4	4 x M4	4 x M4

Documentation

Hompage	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 distunguish our products today.

And we are proud of them.