IMAGO
TECHNOLOGIES

Vision Cam AI.go
Industrial AI Camera

INDUSTRIAL AI CAMERA

Vision Cam AI.go

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.

CMOS Sensor – Global Shutter

Optical Size	1/1.8"
Resolution	2560 x 1936 pixels (5 MP)
Pixelsize	$(2.8\ \mu m)^2$
Framerate (full res.)	53 fps
Partial Scan	yes
Color	mono / color

Interfaces

Ethernet TCP/IP, FTP	1.000 Mbit/s
Digital In/Out	2 × Input / 4 × Output, 24V
Mass Storage	1 × µSD Card ≥ 32 GB

Lens Properties

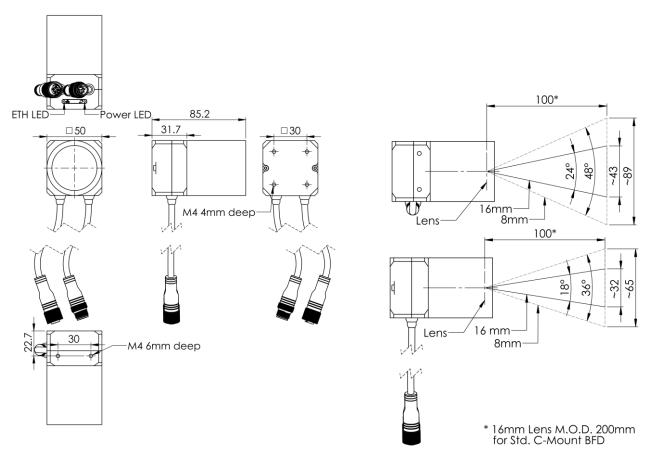| Lens Mount	C-Mount	
Focal length Examples	8mm	16mm
Field of View (H x V)	≈ 48° × ≈ 36°	≈ 24° × ≈ 18°
M.O.D.	100mm	200mm

Mechanical / Electrical

Ethernet Cable	0.5 m , M12 8 pin
I/O & Power Cable	0.5 m , M12 8 pin
Min. Cable Bending Radius	30 mm (recommended)
Power Supply	24 V_{DC} (21 V_{DC} – 28 V_{DC})
Supply Current @24V	0.5 A
Dimension W × D × H	50 mm × 85mm × 50 mm
Weight	370 g (incl. cable, lens and tube)
Temperature Range	+5 °C … +45 °C
Mounting	4 × M4 (Back) , 2 x M4 (Top)

Dimensional Drawing

The smartest embedded vision components

For more than 25 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.