

A brand of Balluff



mvBlueCOUGAR STANDARD SOLUTION FOR INDUSTRIAL JOBS

**Universal Gigabit Ethernet interface camera platform
with GigE Vision and GenICam standards**



AUTOMATION READY – WITH GigE Vision

Easy integration with current GigE Vision and GenICam standards for platform- and manufacturer-independent usage.

Latest standards for more flexibility

With data rates of up to 10Gbit/s and cable lengths up to 100 meters, the mvBlueCOUGAR is designed for Machine Vision tasks with high resolution and low latencies and also for tasks with precise and optimized images like in life science and medicine. The core of the camera consists of groundbreaking smart features to reduce the load of the host system – for more reliable and universal applications.

Modular, open and future-proof

There is a wide range of high quality CCD and CMOS sensors available for different applications even in the basic version of the mvBlueCOUGAR. The open design makes it possible to adapt and enhance the camera easily. Board-level versions can be configured and extended individually to meet demands and tasks.

With these features, the mvBlueCOUGAR is among the most flexible camera platforms on the image processing market with all advantages of the GigE Vision and GenICam standards.

More performance, more security, more flexibility: The smart features of the mvBlueCOUGAR.

Reduces load of the host system

- Flat field correction
- Bayer demosaicing
- Color correction
- Real-time image acquisition control
- Real-time gamma correction
- SmartFrameRecall

Reliable applications

- Large image memory (as FiFo buffer or for camera record mode)
- Resend mechanisms (lossless image transfers)
- Bandwidth control (indispensable in multicamera applications)
- Blockscan mode for line scan applications

Universal applications

- Micro-PLC (e.g. for pulse width modulation)
- Different exposure series
- Different lens holders and filters
- Blockscan mode for line scan applications

IP67 protection is available for the camera series mvBlueCOUGAR-X and mvBlueCOUGAR-XT



mvBlueCOUGAR-X and -X IP67

These GigE Vision camera series are our standard solution for industrial jobs requiring high resolutions, large distances between the camera and analysis unit, and low image transfer latencies. The product version with **IP67 protection** and M12 connectors is suitable for harsher environments.



mvBlueCOUGAR-XD

The GigE Vision camera has two Gigabit Ethernet interfaces for double the bandwidth and is the smallest in its class. Thanks to the high-speed buffer, images can be written to the camera memory faster than transferred, depending on the sensors.



mvBlueCOUGAR-XT

The 10GigE industrial camera series enables high productivity and precision thanks to the performance of state-of-the-art image sensor technology and a net data rate of 1245 MB/s. With **protection class IP67** and industrial plug connections, the camera series is designed for use in harsh environments. As a product version, it is also available with active air cooling.

You find more information on our website: www.matrix-vision.com/mvbluecougar

mvBlueCOUGAR in action

Many areas are using the flexible possibilities of the mvBlueCOUGAR.

■ Pharmacy:

Strict quality guidelines must be observed in the packaging industry. This concerns not only the packaging but also the packaging contents. Fill level, completeness and information on the packaging are checked and documented with the mvBlueCOUGAR.

■ Traffic:

The sensors are characterized by their high dynamic range. This ensures the best results even in varying lighting conditions.

■ Measurement technology:

The integrated temperature sensors in combination with the compact size, high quality images, and high sensitivity make the camera ideal for integration.

■ Automation:

in multi-camera operation in the field of book-binding. The open design with smart and robust digital I/Os makes it possible to integrate customer-specific extensions like an ultra-bright flash illumination.



■ Logistik:

In order to be able to comply with the just-in-time principle in logistics, routes, processes, tracking and identification of goods must all be carried out in the best possible way. mvBlueCOUGAR supports e.g. in the use for pick-by-vision, sorting by address identification or also in the navigation of driverless transport systems.

■ Automotive:

The production halls in the automotive industry are rough and long distances have to be bridged. Thanks to industrial-grade connections, long cables suitable for drag chains and good image quality, the mvBlueCOUGAR is ideal for use in precisely these environments.



www.matrix-vision.com/cougar-stories.html

ACCESSORIES MAKING IT EASY

■ Gigabit Ethernet and I/O cables

bent, with lock screws and suitable for drag chain

■ Power supply with or without I/O cable

■ Lens holders

C-mount, CS-mount, S-mount

■ Lenses

■ Filters

■ Lighting systems



■ Software

Our mvIMPACT Acquire SDK has a user-friendly standard API allowing easy integration into your environment (Windows/Linux).

■ Hardware

Flexible testing and setting options with the mv-X I/O-Box. The box for all developers to configure the mvBlueCOUGAR camera in testing environments: Connecting, testing, looping into systems and mixing connection variants selectively. Let's go!



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