

A brand of Balluff



mvBlueCOUGAR-X MINI SIZE MAX PERFORMANCE

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



EASY INTEGRATION – WITH GigE Vision®

Ultra compact by using state-of-the-art components – ultra compatible with current GigE Vision® and GenICam™ standards for platform and manufacturer-independent usage.

Latest standards for more flexibility

Thanks to the current GigE Vision® and GenICam™ standards and its compact size, the next generation Gigabit Ethernet camera family mvBlueCOUGAR-X can be integrated into various applications. With data rates of up to 1,000 Mbit/s and cable lengths up to 100 meters, the mvBlueCOUGAR-X 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 – resolutions up to 31 Mpixels – even in the basic version of the mvBlueCOUGAR-X. 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-X is among the most flexible and upgradable systems 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-X.

Reduces load of the host system

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

Reliable applications

- Large image memory up to 256 MB (as FiFo buffer or for camera record mode)
- Resend mechanisms (lossless image transfers)
- Bandwidth control (indispensable in multicamera applications)
- Temperature sensors (enhanced temperature range) and timestamps (camera synchronization)

Universal applications

- Micro-PLC (e.g. for pulse width modulation)
- Different exposure series
- Different lens holders and filters
- Models with IP65 or for higher environmental temperatures



2 links 4 more speed!

The new Dual GigE camera family mvBlueCOUGAR-XD joins together ultra fast and high resolution CMOS and CCD sensors with the well-known features of the mvBlueCOUGAR-X camera in the smallest housing in its class.

Let there be light!

Camera with integrated flash – easier than ever: reliable control of high power LEDs directly via the camera. Optimal images guaranteed.

mvBlueCOUGAR in action

Many areas are using the flexible possibilities of the mvBlueCOUGAR-X.

- **Pharmacy:**
mvBlueCOUGAR-X checking packaging within the pharmaceutical field.
- **Traffic:**
mvBlueCOUGAR-X used in traffic control systems. The mvBlueCOUGAR-X sensors are characterized by their high dynamic range. This ensures the best results even in varying lighting conditions.
- **Measurement technology:**
mvBlueCOUGAR-X as a compact optical system in coordinate measurement machines. The integrated temperature sensors in combination with the compact size, high quality images, and high sensitivity make the camera ideal for integration.

- **Automation:**
mvBlueCOUGAR-X in multi-camera operation in the field of book-binding. The open design of the mvBlueCOUGAR-X with smart and robust digital I/Os makes it possible to integrate customer-specific extensions like an ultra-bright flash illumination.
- **Safety:**
mvBlueCOUGAR-X provides more safety at construction sites. Reliable person tracking in 3D – regardless of the environmental lighting. The driver will be alerted within 300 ms after the event.
- **Automotive:**
mvBlueCOUGAR-X reading Data Matrix codes on plastic components.



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 drivers and tools have a user-friendly standard API allowing easy integration into your environment (Windows®/Linux®). Together with the platform-independent smart vision software mvIMPACT Configuration Studio you can then achieve complete inspection programs – intuitively and quickly.
- **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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