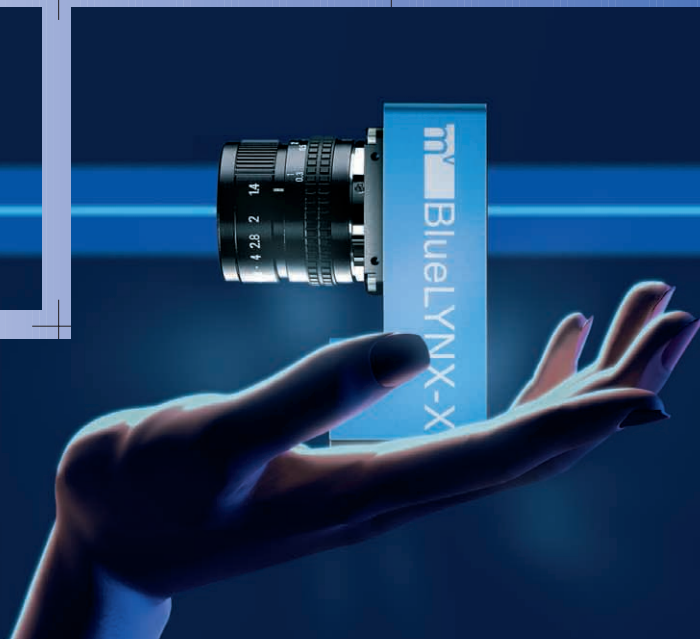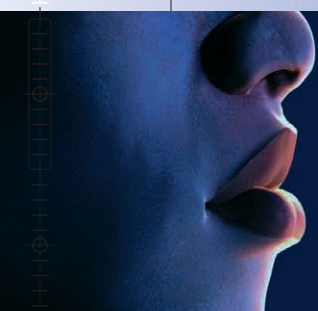# mvBlueLYNX-X

Next generation smart camera

www.matrix-vision.de

Vision
with intelligence

**Compact OMAP™-based image processing system
with integrated LINUX® operating system**

Engineered
& Assembled
in Germany

**GREEN
AUTOMATION**
Engineering sustainability.

RECOGNIZE   ANALYZE   DECIDE

mv MATRIX VISION

What makes an industrial camera an intelligent one? Quite simple: The features of an industrial PC and a frame grabber combined in one small housing. Equipped with a wide range of interfaces to communicate with machines and to connect additional peripherals, as well as a wide selection of CCD and CMOS sensors, you get a compact and smart camera for many Machine Vision applications: the mvBlueLYNX-X.

An OMAP-based system with a hybrid dual-core processor (ARM + DSP) ensures integrated image acquisition and processing at extraordinary speeds.

The mvBlueLYNX-X recipe for success: Clever, fast and green.

The mvBlueLYNX-X is the logical extension of intelligent camera development.

Green Automation on-board. The low power consumption of ≤ 5 Watts makes the mvBlueLYNX-X suitable for green automation applications.

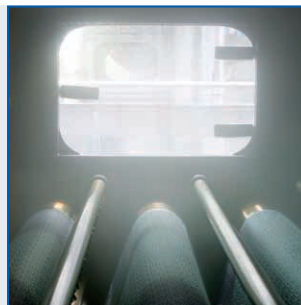RS-232

DIG I/O

SD Micro
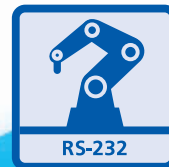
mvBlueLYNX-X in action.

Many areas are using the flexible possibilities of the mvBlueLYNX cameras.

❮ **Machine Vision:** Compact size and low power consumption make integrating the camera easy.

❮ **Robotics:** The smart camera is used to position materials in production. As an autonomous system without any additional PC, a smart camera can simplify the IT infrastructure.

❮ **Health Care:** The camera captures the optical center of the glasses as well as the frame outline and transfers the data to the grinding machine.

❮ **Textile industry:** The camera works as an optical system for "on the loom inspections" in the textile industry.
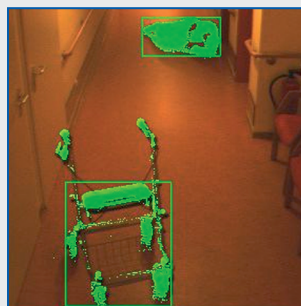
❮ **Safety:** As a closed system, the camera observes corridors and halls and will alarm nursing staff if a person collapses or falls over.
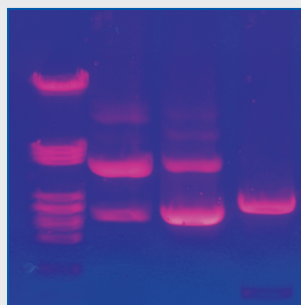
❮ **Medicine:** As image subsystem within fully integrated molecular diagnostic device for gel electrophoresis.

www.matrix-vision.com/lynx-stories.html
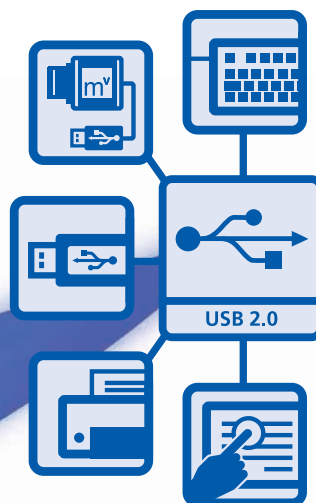
Small camera – many great opportunities.

Despite its small size, the mvBlueLYNX-X offers a wide range of connection possibilities. Besides USB 2.0, USB On-the-go, RS-232 and VGA, the storage can be extended via the MicroSD card slot. With the additional digital I/Os, the smart cameras can be adapted to specific applications easily and individually.

Furthermore, different assembly and OEM options like PoE (Power over Ethernet), landscape or portrait oriented sensor heads, processor controlled lighting, IP65 and plastic foil keyboard are available options.

USB 2.0

USB On-the-go

VGA

www.matrix-vision.com/lynx-features.html

Accessories with system.

- Cables and I/O cables with different lengths
  - ◗ bent
  - ◗ with lock screws
  - ◗ suitable for drag chain
- Power supply with or without I/O cable

- Lens holders
  - ◗ C-mount
  - ◗ CS-mount
  - ◗ S-mount

  optional: I2C support of zoom lenses

- Lenses

- Filters

- Lighting systems

  optional: LED flash rings in different colors

The click starter.

Platform-independent support of your software environment with mvIMPACT.

The comprehensive software library with standard API (mvIMPACT Acquire), tools and camera drivers. Third-party software can be integrated into the open system as well.

Hardware to check.

Flexible testing and setting options with the mv-X I/O-Box.

The box for all developers to configure the mvBlueLYNX camera in testing environments: Connecting, testing, looping into systems and mixing connection variants selectively. Let's go!

mvBlueLYNX-X

Next generation smart camera

- **OMAP™-based architecture**
- **Hybrid dual-core processor (ARM + DSP)**
- **High resolution CCD/CMOS sensors**
- **Resolutions from VGA to 5 Mpixels**
- **>100 full images / sec.**
- **512 MB DDR RAM**
- **≤14 bit ADC**
- **Up to 2/4 digital I/Os**
- **Integrable high-power lighting systems**
- **Low power consumption**
- **LINUX® operating system**
- **Programmable: C, C++; .NET (Mono)**
- **Vision Libs: mvIMPACT, MVTec HALCON™, OpenCV, et al.**

Ideas and products Made in Germany

In the industrial image processing area, MATRIX VISION has become an important partner for customers world-wide.

Our strong-points

Aside from our extensive range of standard products we develop custom-specific solutions which provide maximum utility for the user as a result of continuous improvement.

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