

MOBOTIX
VERTICALS

INDUSTRIAL PRODUCTION

Intelligent Video Technology Protects
Your Operations And Improves Processes

BeyondHumanVision

MOBOTIX

CONTENTS

Brand New Potential	4
Security	6
Occupational Safety	8
Process Optimization	10
Special Environment	12
Proven in Practice	14
Portfolio — High-End Hardware	16
Potential — Software & Apps	18
Stronger Together	20
So let's get started!	22

How MOBOTIX Technology Can Make Your Life Easier

High-End Video Surveillance – Tailored to You

Beyond **HumanVision** is more than just our motto; this way of thinking comes with genuine added value for you! Video surveillance forms part of a much greater potential for which MOBOTIX provides the basic platform for innovative solutions. MOBOTIX offers **much more than just security solutions** for industry and production.

MOBOTIX does not supply you with surveillance cameras. Instead, we provide you with **perfectly tailored solutions** that are customized for your company and the specific requirements and specifications of your industry. Our expertise and the MOBOTIX high-end technology can only come into effect once we know you, your way of thinking, your environment and your aspirations. Because every project is unique and incomparable. Let's have a talk.



YOUR BENEFITS

- Ensure security at all levels
- Increase the profitability of your company
- Reinforce your quality and your image
- Simplify your life and that of your employees

How about if a burglar actually brought you money?

Tap Brand New Potential With MOBOTIX

Granted, you'd be hard-pressed to find such a generous burglar. With our reliable intrusion prevention systems, we will of course continue to do everything we can to keep unwanted intruders off your property. However, MOBOTIX surveillance systems have long been much **more than just security systems**. They enable **effective optimization of processes** which can **potentially generate savings and increase your profit**. By combining the reliability of MOBOTIX perimeter protection and security with the huge potential to work more effectively, potential intruders are transformed into hard cash.

MOBOTIX meets your exact requirements for industry and production. We are constantly developing and opening up new fields of application for you. For example, through new **intelligent apps, AI support** and **specific technology solutions** that we develop together with our partners. We're here for you!

SECURITY

- Intrusion prevention
- Anti-theft protection
- Access control
- Early fire detection and protection

Protect Objects, Machines and People

Prevent Unauthorized Access and Fundamental Damage

To ensure long-term reliable operation, it is vital that important structures are specially secured and monitored. Unauthorized persons must not be allowed to enter your premises. There are also sensitive areas that only specific people are permitted to access. Last but not least, your property and equipment need to be protected against fire. **Intelligent preventive measures with modern MOBOTIX hardware and software** will protect you against unauthorized access, fundamental damage and the resulting costs.

"One successful MOBOTIX fire protection project experienced a positive side effect — a 5 percent increase in production. Of course, the customer was delighted."

Alexander Iglhaut, ITES GmbH



OCCUPATIONAL SAFETY

- Safe handling of hazardous materials
- Proper use of machines
- Maintenance in dangerous or inaccessible locations

Inside is Winside – Keep Everything Running

Protect People and Make Processes Transparent and Secure

Occupational safety is all about preventing mistakes — both those that result from human error and those due to machine malfunctions. **Intelligent MOBOTIX video systems help** you to monitor internal security processes effectively. For example, they immediately trigger an alarm if people handling hazardous substances fall down. The systems also monitor areas that are inaccessible or too dangerous for the human eye, such as the interior of machines or piping systems. As long as everything keeps moving safely, your business will also continue moving forward.

"Thanks to the camera surveillance, one of our customers identified an operating error in the cleaning of a machine, which ended up saving him several thousand euro."

Thomas Lausten, MOBOTIX CEO



PROCESS IMPROVEMENTS

- Monitoring of production steps
- Controlling stock movements
- Remote maintenance of machines

Save Money and Earn More Money

Improve Operations and Increase Profitability

Innovative MOBOTIX technology can help you to **improve** your **production processes**. You can monitor production lines in a targeted manner, detect faults immediately or count workpieces digitally. This reduces and prevents machine downtimes. Many maintenance inspections can be performed remotely. This saves unnecessary trips and time, which you can invest profitably in other ways. Modern software, such as AI-based apps, opens up new possibilities. The MOBOTIX video technology can be synchronized with the machine control system and can trigger alarms or follow-up processes autonomously, for example. The potential is virtually unlimited.

"Downtimes have been reduced by 25 to 30 percent on average since the MOBOTIX camera system was installed."

Norbert E. Raif, IBC Raif GmbH

A large industrial facility, possibly a steel mill or refinery, with a blue overlay containing text. The background shows a complex network of pipes, structural beams, and machinery. A large, cylindrical component is visible in the foreground, partially covered in dust or residue. The lighting is dramatic, with strong highlights and deep shadows.

SPECIAL ENVIRONMENT

- Dust & dirt
- Moisture & humidity
- Heat & cold
- Wind & weather
- Poor lighting & darkness
- Digital industrial espionage

Formidable Fortresses!

Resistant, Robust and Cyber-safe Video Systems

Industrial and production plants are governed by special external influences. MOBOTIX video systems, **made in Germany**, are designed to cope **reliably with extreme conditions over the long term**.

- The **mean time between failures (MTBF)** of our cameras is **80,000 hours** (> 9 years). This saves maintenance costs.
- **No additional protective housings or air conditioning measures** are required for installation indoors and outdoors.
- Highly sensitive optics, thermal sensors, infrared lamps and intelligent apps **overcome the most difficult optical conditions**, such as darkness or unfavorable weather conditions.

Hold Tight. That Goes for Digital Too: Top Cybersecurity Included

CYBERSECURITY is a top priority at MOBOTIX and is a sensitive subject in every industrial company. After all, your business relies on preserving trade secrets and ideas and protecting them from the competition. MOBOTIX solutions are widely recognized for excellent cybersecurity. **The MOBOTIX Cactus Concept** sets standards in the video surveillance industry that you can rely on.



Discover the MOBOTIX Cactus Concept:
mobotix.com/en/cactus-concept-cyber-security

MOBOTIX

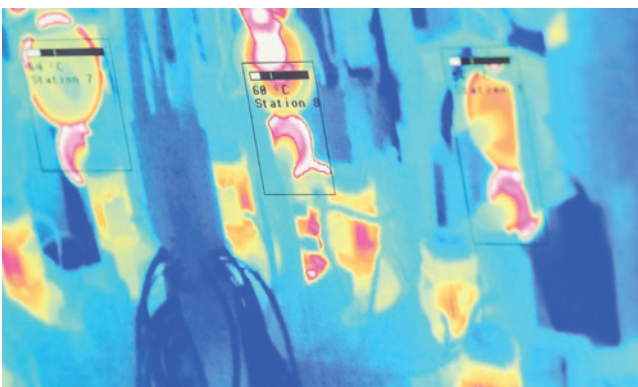
Proven in Practice

Global Success in Industry and Production.

KUHN RIKON, SWITZERLAND

Kuhn Rikon is a Swiss company with over 200 employees and is world-renowned for its pots and pans. In 2015, the company suffered a devastating accident. During mechanical pot polishing, an abrasive spontaneously combusted. Large parts of the production site were burned down and the damage was estimated at approximately 4.6 million euro.

Since then, all zones of the polishing machine have been monitored separately using the MOBOTIX M16 thermal camera, which is intelligently linked to the fire alarm control panel. Three escalation steps have been programmed, which the MOBOTIX camera can trigger independently if required: 1. Heat warning on a display – 2. Pause the machine for an analysis – 3. Switch off and automatically delete the system. The system has been running smoothly since 2018. Other facilities are also now using this solution. Thanks to the simplified control, productivity has even been increased by approx. 5%. Success for KUHN RIKON and MOBOTIX!



- Smooth operation since 2 years now
- 5% increase in production
- System applied to other machines

LOUIS DREYFUS, BELGIUM

Louis Dreyfus is the world market leader in the trade of agricultural products. The company transports concentrate and fresh orange juice from Brazil to all over Europe. The juice is processed and stored at -8 to -18°C.

50 MOBOTIX cameras — DualDome with 360 degree hemispheric technology, Allround Dual and Allround — have been installed to provide an overview of storage, processing and transport areas. The system also ensured occupational and food safety, and prevented break-ins and fires. MOBOTIX cameras have even been installed in the long, narrow tunnels for the pipelines, meaning employees no longer have to make the frequent, strenuous trips to control the line. Monitoring is now carried out centrally from the control center. The MOBOTIX solution has dramatically improved workflows. It also saves costs, as the cameras reduce downtime.



- Coverage of ambient temperatures from -8°C to -18°C
- Remote maintenance saves inspection rounds
- Reduced downtime save costs

BIEBER + MARBURG, GERMANY

The trading company in Giessen manages a stock of over 25,000 tons of steel on a plot spanning 55,000 m². All processes are documented on video. 47 MOBOTIX Allround, DualNight and DualDome cameras are in use to protect the company against theft and intrusion.

But that's not all: The processes are monitored centrally on the screen, which saves time-consuming inspection rounds. Faults are detected directly. Two cameras are mounted on a 12-meter crane. The crane can distinguish between several thousand different qualities and dimensions and can sort them fully automatically. And it can do all this even at temperatures of up to -25°C, as the camera housings are shielded securely. A special concept is being implemented in Giessen using black and white images. These can provide better contrast in difficult conditions, such as twilight or at night. The low network loads also reduce costs.



- Remote maintenance instead of time-consuming inspection rounds
- Fully automatic crane control by means of camera technology
- Black and white images save network costs

HELLERS, NEW ZEALAND

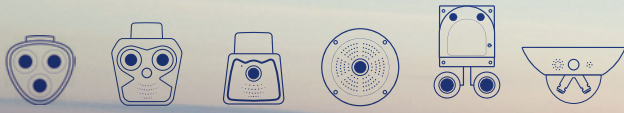
Hellers is the largest producer of bacon and ham in New Zealand. 400 employees produce meat products in a facility that is operational day and night. In 2007, Hellers installed ten M12 DayNight cameras to monitor the parking lots and entry roads and prevent theft. The company was delighted by the quality of the images, ease of installation and usability of the system, which has sparked new potential. Over 70 cameras have now been installed at the company. A number of these are Q24 hemispheric cameras, which can monitor the entire room from a single point — with outstanding image quality, even when zooming.

The cameras have also enabled several minor processes to be optimized. The reduction in the number of hours worked and the adaptation of processes has resulted in remarkable savings. The system was even able to identify incorrect cleaning of a machine, which alone resulted in savings of several thousand dollars.



- Savings well beyond the initial investment
- Incorrect operation detected and several thousand euro saved
- Reliable since 2007 — expanded from 12 to 70 cameras

Outdoor



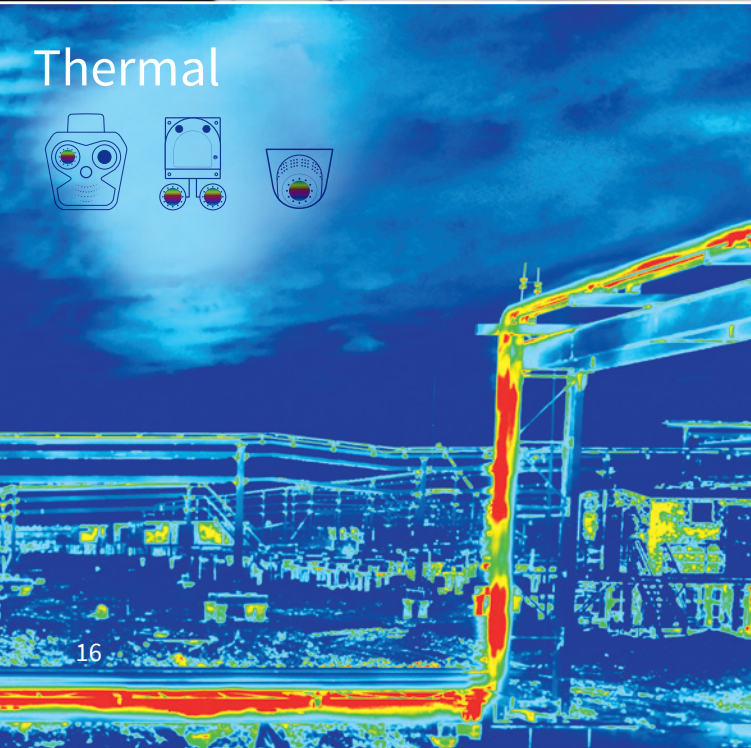
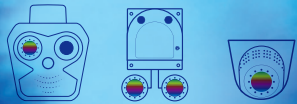
Indoor



MOBOTIX MOVE



Thermal



Access Control



When Potential Becomes Perfection!

Extensive Portfolio for Your Tailor-Made Solutions

There is no such thing as a MOBOTIX standard solution. In cooperation with your MOBOTIX partner, your **project** is **configured to suit your needs** from the comprehensive MOBOTIX portfolio. We discuss your processes with you in considerable detail to define the relevant tasks and how we can monitor them reliably and effectively. This ensures that **the solution is the perfect fit for your needs** and leaves nothing to be desired.

Outdoor

MOBOTIX outdoor cameras are able to withstand ambient temperatures ranging from -40 to 65°C. The maintenance-free housing protects them from moisture, corrosion and dirt. High-quality image sensors produce high-quality video recordings even in low light.

Indoor

Indoors, the hemispheric video system with 360° allround view or 180° panoramic image can monitor an entire room discreetly and without any gaps — with intelligent video analysis tools for object and person statistics, heat maps and behavior detection.

MOBOTIX MOVE

The weather-resistant, mobile IP cameras are equipped with the latest standard features of central video systems. MOBOTIX MOVE is the ideal supplement to the premium IoT video systems in the MOBOTIX 7 and Mx6 series.

Thermal

MOBOTIX thermal cameras register objects and people using a thermal signature, even in total darkness at distances of several 100 meters. They are also used with great success for early fire detection and can issue alarms automatically.

Access Control

With its 360° lens, the technology captures the entire entrance area without any gaps. The system enables keyless doors to be opened securely using an access code, RFID transponder or smartphone, and is even scalable for larger connected systems.



Discover the full potential:
www.mobotix.com/en/products

MOBOTIX



Ok

Ok

Check

Ok

Ok

Digital is Pivotal – Start Your Future

MOBOTIX Apps Enable New Solutions

The MOBOTIX 7 platform includes **special apps** for the M73 high-end camera. The applications take advantage of **artificial intelligence** and **deep learning**. In other words, the software is specifically tailored to individual applications using calculation methods and operating instructions.

The MOBOTIX 7 platform can already cover a significant number of industry-specific applications with its special apps. It is also open for **apps developed by our partners and customers** themselves. This means that practically every conceivable application can be mapped. **The possibilities are virtually endless!**

These MOBOTIX apps are designed for use in INDUSTRIAL PRODUCTION:



MxAnalytics AI

Reliable, object-based counting and behavior detection.



AI-Fire

Early detection of flames indoors and outdoors (e.g. vehicles, containers). For all optical image sensors.



MxActivitySensor AI

Reliable object-based motion detection independent of weather and brightness interference.



AI-Smoke

Smoke detection inside and outside. For all optical image sensors.



AI-Intrusion PRO

Shows intruders crossing one or a sequence of virtual lines. Multiple lines increase system reliability.



AI-Loitering

Detects suspicious behavior of people who remain in certain areas for an extended period of time.



AI-Heat

Identifies frequently visited areas (hot spots) and less frequented areas (dead areas) based on the length of time people spend there.




Visage Technologies Face Recognition

Face recognition using stored image data. With 97% success probability with access control applications.

'Appssolutely' fascinating and everything at a glance:
seven.mobotix.com

MOBOTIX

The background features a dark blue field with glowing, out-of-focus light blue and white circular patterns. On the left side, there are several white icons: a person silhouette, a group of three people, and a circular gauge or dial. Dotted lines connect these icons to various points in the abstract pattern.

MOBOTIX
SOLUTION Partner

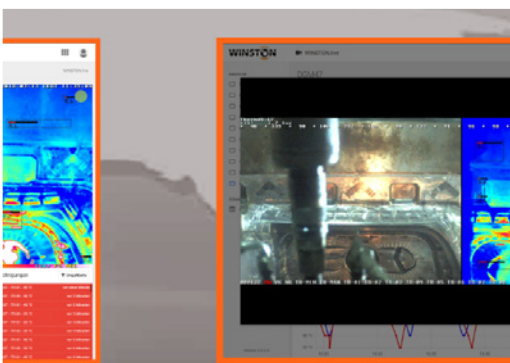
MOBOTIX
TECHNOLOGY Partner

Outstanding Expertise: Impossible Just Isn't in Our Vocabulary

MOBOTIX Partners Develop Specific Solutions

We closely monitor developments and trends in the industry on an ongoing basis. At the same time, we are aware that we cannot maintain an overview of the many requirements on our own. That's why working with experienced experts is extremely important. These are our **qualified MOBOTIX partners**.

Together we meet particular challenges and are continuously developing new industry-specific complete solutions. The **MOBOTIX solution partners** provide their own intelligent application solutions for MOBOTIX technology, such as waterproof special housings or license plate recognition and authentication systems. The **MOBOTIX technology partners** are innovative manufacturers of complementary products that MOBOTIX has integrated into its own product. Together, we can offer you the best solutions for almost any special requirement with our **premium camera technology**.



Positive Processes – Productive Partner Projects

Process optimization – control processes using thermal data

The thermal imaging cameras from MOBOTIX enable individual measuring ranges and temperature alarms to be defined in the image. The results are transferred directly to process control, where temperature analyses and diagrams are created.

Process optimization – preventive monitoring of sensitive equipment

The application enables monitoring of industrial processes and plants, such as reactors or fire behavior of torches. Visual support enables efficient staffing and increases productivity and security.



Intrusion prevention – invisible wall makes intruders visible

In combination with MOBOTIX technology, an additional detector creates an invisible laser wall. This means that buildings, flat roofs, sensitive areas and equipment can be protected extremely effectively against intruders.



LET US TALK

- industry.mobotix.com
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The Way to Your Customized MOBOTIX Solution

Short Step, Long-Term Impact: Let's talk!

MOBOTIX solutions are sold by qualified distributors, dealers and partners around the world.

The professional MOBOTIX installers and service providers for video surveillance and industrial applications have proven industry expertise. Our partners will work with you to design and implement your intelligent MOBOTIX solution to meet your specific requirements.

MOBOTIX — There For You All Along The Line, Including Online!

Of course, we will be happy to help you directly with any questions you may have about your requirements.

- Explicit video system solutions for industry & production
- Complete overview of the powerful MOBOTIX portfolio
- Free download of brochures and documentation
- Practical examples of MOBOTIX solutions



Find out more at:
industry.mobotix.com

MOBOTIX

Intelligent Video Security Solutions Made in Germany

MOBOTIX offers a comprehensive range of solutions for all aspects of video-based security systems. We develop high-quality, decentralized, energy-efficient systems that mean our customers save money on every MOBOTIX system installed.

Our motto **BeyondHumanVision** is also our mission: MOBOTIX is fully committed to making itself the most reliable company it can be, one that protects people and property by using intelligent, cyber-secure video technology to go beyond human vision.

EN_03/20

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