



Product Update INTL & AMERICAS – March 2019

Latest News In The MOBOTIX Product Portfolio

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1. MOBOTIX NAS: Software Service Releases



Free software updates for using the MOBOTIX NAS devices (available now in the Download Center)

On the MOBOTIX website in the **Download Center**, new versions of the MOBOTIX NAS Device Finder, the MOBOTIX NAS Container Station, the MOBOTIX NAS Recorder Software and the operating system firmware of the NAS devices are available for free download (with bug fixes and stability improvements). Every NAS software component has to be downloaded to a PC (Windows), a network connection between PC and NAS must exist.

Download and Release Notes for MOBOTIX NAS Software:

mobotix.com > [Support](#) > [Download Center](#) > [Software Downloads](#) > [MxNAS](#)

MOBOTIX NAS software components (latest version numbers)	Function of the software
Device Finder MxDeviceFinderPro_6.6.0.1112_Setup-Win32.exe	Software for PC (Windows) for initial set up and maintenance of all MOBOTIX NAS devices (Mx-S-NAS2A-8, Mx-S-NAS4A-16, Mx-S-NAS8A-32)
Container Station* MxContainerStation_1.8.3207_x86.qpkg	(App Center) Software for all MOBOTIX NAS devices (Mx-S-NAS2A-8, Mx-S-NAS4A-16, Mx-S-NAS8A-32) for further installation of Recorder Software (QVRPro)
Recorder Software (QVRPro)* MxQVRProServer_1.2.1.0mx_x86_64.qpkg	(App Center) Software for all MOBOTIX NAS devices (Mx-S-NAS2A-8, Mx-S-NAS4A-16, Mx-S-NAS8A-32) for recording ONVIF-S cameras; the container station must be installed beforehand
2-Bay/4-Bay-OS MxNAS2-4A_4.3.4.0807mx.img	Operating system firmware for the MOBOTIX NAS Mx-S-NAS2A-8 and Mx-S-NAS4A-16; MOBOTIX NAS devices are shipped with operating system firmware already installed, which can be updated via the Device Finder
8-Bay-OS MxNAS8A_4.3.4.0807mx.img	Operating system firmware for the MOBOTIX NAS Mx-S-NAS8A-32; MOBOTIX NAS devices are shipped with operating system firmware already installed, which can be updated via the Device Finder

* Software is stored on a previously installed hard drive (HDD) of the NAS; [the current HDD whitelist can be found here](#) >

MOBOTIX NAS: Video tutorial for initial configuration

mobotix.com > [Support](#) > [Download Center](#) > [Documentation](#) > [Video Tutorials](#) > [MOBOTIX NAS](#)



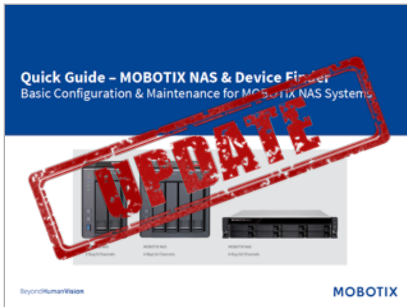
As a simple step-by-step guide to getting started with a MOBOTIX NAS device, our MOBOTIX campus team has produced a looping video that is available in German and English on our website. Here we show you the NAS fast installation as well as the installation of the necessary additional NAS software and finally the integration of MOBOTIX MOVE and ONVIF cameras.

Direct link to the video (english language): <https://youtu.be/bMnoxAcnwZ0>

MOBOTIX NAS: PDF Quick guides

mobotix.com > [Support](#) > [Download Center](#) > [Documentation](#) > [User Manuals](#) > [Accessories](#) > [MOBOTIX NAS](#)

Under this link (please scroll down to the bottom) you will find a total of six different instructions, which explains even technically less experienced users easily understandable and clearly illustrated all the steps from unpacking a NAS device to successful setup in MxManagementCenter.



Please start with the device-specific **Quick Install** (e.g., MOBOTIX NAS 2-Bay/8 Channels) and then continue with the [Quick Guide – MOBOTIX NAS & Device Finder](#). As the further NAS setup of MOBOTIX IoT cameras (eg x16 / x26) runs differently than with the MOBOTIX MOVE/ONVIF-S cameras, there are two quick guides: [MOBOTIX NAS & IoT cameras](#) and [MOBOTIX NAS & MOVE/ONVIF cameras](#).

System overview: Cameras + VMS + NAS recorder – the ONVIF complete solution from MOBOTIX

With the [MOBOTIX MOVE ONVIF cameras](#), the [MxManagementCenter Version 2.x](#) (MxMC version 2.0 and higher) and the ONVIF recording solution [MOBOTIX NAS](#), MOBOTIX offers a complete, ONVIF-based video system solution with perfectly matched individual components (the official MxMC listing on the [ONVIF website](#) will be within the next few weeks). A MOBOTIX integration solution with MOBOTIX MOVE, MxMC and MOBOTIX NAS is ideal ...

... for those who want to use the full program:

Existing or planned MOBOTIX applications with MxMC as VMS solution can now easily and conveniently be extended – to include ONVIF cameras (e.g., [MOBOTIX MOVE SpeedDome SD-340-IR](#) or third party camera) as well as the specially developed central storage solution MOBOTIX NAS.

... for all who want to change intelligently:

The conversion of a third-party video system to a modern MOBOTIX solution with MxMC is now very easy and thus cost-effective. Already existing ONVIF cameras can be integrated from the previous system without disassembly in MxMC (from version 2.0) and continue to be used. In addition, thanks to MxMC, it is now possible to use all the advantages of the intelligent, decentralized and license-free integrable MOBOTIX IoT video systems of the current and future model series and thus to rely on a long-term, future-proof and powerful video system solution.

MOBOTIX MOVE and MxMC licenses for using H.264 video channels



When choosing a camera, it should be kept in mind that the MOBOTIX MOVE cameras are **not decentralized** IoT systems with other functions, but classic, centrally manageable and high-quality ONVIF standard cameras with their own, functionally reduced firmware. For example, MxAnalytics or MxActivitySensor are not available in the MOVE series. However, MOBOTIX MOVE cameras are recommended in all projects where there are strict specifications regarding the camera technologies to be used which are not or not yet compatible with the decentralized MOBOTIX complete video solutions (e.g., camera with ONVIF profiles S+G, WDR, integrated IR lighting, motor PTZ).



MOBOTIX MOVE cameras offer unbeatable (license) cost advantages when used with MxMC 2.x and MOBOTIX NAS. At any MxMC workstation, **any number of MOBOTIX MOVE cameras with H.264** can be integrated into an MxMC workstation indefinitely for a **one-time** fee for an **Integration Starter License**!



MxMC
Int. Starter

If you only want to integrate MOBOTIX MOVE cameras with the video codec MJPEG, no licenses are necessary at MOBOTIX. Since in MJPEG mode the resolution of the cameras means max. Full HD resolution, **up to 10 times** more bandwidth and memory than H.264 and recording export only possible with AVI instead of MKV/MP4, **MOBOTIX recommends an MxMC integration of MOVE and ONVIF-S cameras with the H.264 standard video codec** (does not apply to MOBOTIX IoT cameras as they use the video security and bandwidth-optimized MxPEG+ video codec). Due to the patent protection of H.264, (only small) license fees are incurred, but they are compensated again thanks to reduced storage costs.

In addition to the **Integration Starter License**, with the inclusion of **ONVIF third-party cameras with H.264**, one additional **Integration Channel License** per camera and per workstation is required at the latest from the ninth integrated camera (does not apply to MOBOTIX MOVE). All information about the MxMC license model can be found in the [PDF Compact Guide MxMC 2.0](#).



MxMC
Int. Channel

Unique functionality: MOBOTIX NAS



All three MOBOTIX NAS models have a dedicated background MxMC interface software. This is the only way for a user of MxManagementCenter (Version 2.0 or higher) to play and export the MOBOTIX NAS recordings of all MxMC-embedded ONVIF cameras (MOBOTIX MOVE and third-party ONVIF-S cameras) directly to MxMC. Depending on the model, up to 8, 16 or 32 ONVIF cameras (Profile S only required) can be stored on a single MOBOTIX NAS device. In addition, or as an alternative, also the recordings of the decentralized MOBOTIX IoT cameras of the Mx6 series – and that even without device- and license-related limitation of the number of cameras!

2. EventStreamClient SDK Version 1.1.0 (Beta)



MOBOTIX offers various Developer Tools and Software Development Kits (SDK) free of charge. The EventStream SDK implements the EventStream command protocol that is required to access the MOBOTIX camera EventStream service using C++ applications. This service enables access to live AV streams as well as the camera recordings. Moreover, the EventStream service provides a notification mechanism with which the camera can send event notifications to the client application. All communication is carried out through a single TCP connection. In addition to the required library and header files, the platform-specific packages also include C++ examples as well as documentation of use.

The EventStream Client SDK - including documentation - is now available in **version 1.1.0** (beta) for Windows, Linux, macOS and **for the first time also for Android and iOS** at MOBOTIX under:

[mobotix.com > Products > Software > Tools & SDK](https://www.mobotix.com/Products/Software/Tools%20%26amp%20SDK)

(please fill out the online form for ordering)

New in this version:

- Access to the RAW data of a MOBOTIX thermal camera (temperature value per pixel, pixel pitch: 17 µm)
- Android and iOS versions of the SDK for programming your own apps for MOBOTIX IoT cameras

3. Over 20 % Off For MxMultiSense Outdoor

Motion detection sensor (PIR), noise sensor, temperature sensor and illumination sensor in one single module



With the weatherproof MxBus device **MxMultiSense**, MOBOTIX offers an accessory product to increase indoor and outdoor security, that is now reduced to only € 99 / \$ 119 MSRP *. The device detects movements with its PIR sensor and additionally reports the noise level. Furthermore, the temperature and illuminance measured by the module can be used for individual functions.

All four sensors can be linked with each other via event logic or activated simultaneously, whereby even the low power consumption of 0.1 watts is not exceeded. The **MxMessageSystem** controls other devices (such as turning on the light through an MX-232 IO box when MxMultiSense measures a sufficiently strong audio signal, such as clapping hands).

- **Passive Infrared Motion Sensor (PIR):** Max. coverage* (H x V): 100° x 60° (max. distance up to 1 m), 80° x 40° (up to 5 m), 10° x 10° (up to 8 m); Max. distance*: 9 m (tangential horizontal or diagonal movement), 7 m (tang. vertical movement), 4 m (radial movement directly to/from PIR)
- **Temperature Sensor:** Measures ambient temperature with a time delay of max. 15 min; display accuracy ±0.1 °C
- **Illumination Sensor:** Registers illumination levels from 0 to 44200 lx (Lux); max. coverage (H x V): 100° x 100°
- **Noise Sensor:** Detects sounds > 50 dB SPL (Sound Pressure Level, tested with a distance of 70 cm), longer distances possible; adjustable trigger corresponds 50 to 110 dB SPL

The MOBOTIX Video Tutorial for MxMultiSense can be found here: https://youtu.be/Ua2WlVb_Q0s

MxMultiSense: Ordering Information

Order Number	EAN	Description	MSRP*	Available
MX-MULTISENSE1-EXT	4047438028905	Weatherproof multi-sensor module (IP66) with four environmental sensors: passive infrared sensor PIR, brightness sensor, temperature sensor and acoustic sensor (level of sound waves) • Camera connection and supply via MxBus: power consumption approx. 0.1 W, MxBus cable length up to 100 m / 330 ft. • Status LED • Compact device using a S15 sensor module housing • Easy installation without accessories (e.g., in suspended ceilings) • Compatible with all mounts for S15 sensor modules and standard mounts for recessed spotlights • Ambient temperature -30 to 60°C / -22 to 140°F • Up to seven MxMultiSense devices can be connected to one camera • Housing color: white	99 € 129 € 119 \$ 149 €	now

* MOBOTIX MSRP prices are recommended net sales prices ex works EXW from the factory in Germany. In certain countries, MOBOTIX distributors may set higher sales prices due to import specifications/duties.

4. Product Phase Outs: MxMultiSense Indoor, MxDisplay+ Outdoor

As the weatherproof MxMultiSense module is now available at the lower price of the **MxMultiSense indoor version**, we are taking this indoor version out of the MOBOTIX product range **as of now**. Except for the improved tightness



and temperature resistance, the MxMultiSense outdoor version is identical to the indoor variant.

We also decided to delete the two **weatherproof** variants (in black and white) of our **MxDisplay+** door station video interface from the MOBOTIX product range. Orders are only possible until the end of May 2019.

The two MxDisplay+ in white (MX-DISPLAY3) and in black (MX-DISPLAY3-b) developed for **indoor use can still be ordered** (MSRP: 699 € / 849 \$).

Product Phase Outs (EoL – End of Life)

Order Number	EAN	Description	MSRP*	EoL (Order Stop)
MX-MULTISENSE1	4047438028851	Multi-sensor module for indoor use with four environmental sensors: passive infrared sensor PIR, brightness sensor, temperature sensor and acoustic sensor (sound pressure) • Ambient temperature: 0 to 40°C / 32 to 104°F • Color: white	99 € 119 \$	now
MX-DISPLAY3-EXT	4047438028776	Weatherproof MxDisplay+ for mounting outdoors or in rooms with special requirements • Operating conditions: IP65, -30 to 60°C (-22 to 140°F) • Remote station for MOBOTIX Door Stations and video systems • Full duplex hands-free talking • HD sound with echo/noise suppression and automatic volume control • Ambilight sensor • 3 inputs, 1 relay output, connection for external temperature sensor and MxBus • Ethernet, RFID and WiFi • MxBus and Bluetooth available with upcoming software update • 1x admin card • Mounting parts • Frame and in-wall housing to be ordered separately (e.g., FlatMount Frame MX-OPT-FlatMount-EXT-PW) • Color: white	799 € 949 \$	1 June, 2019
MX-DISPLAY3-EXT-b	4047438028783	Weatherproof MxDisplay+ • Color: black	799 € 949 \$	1 June, 2019

* MOBOTIX MSRP prices are recommended net sales prices ex works EXW from the factory in Germany. In certain countries, MOBOTIX distributors may set higher sales prices due to import specifications/duties.

5. Video Tutorials On MOBOTIX Website And On YouTube



Do you already know all of our video tutorials that we linked to our YouTube channel on the MOBOTIX website? Here, MOBOTIX professionals explain how to set up and operate the products.

Here are the MOBOTIX video tutorials:

[mobotix.com > Support > Download Center > Documentation > Video Tutorials](https://www.mobotix.com/Support/DownloadCenter/Documentation/VideoTutorials)

There are currently video tutorials on the following products:

- **MxManagementCenter:** Setup & Configuration, Quickstart, Integration MOVE/ONVIF, Advanced Config
- **Doorstation:** Configuration T26 and KeypadRFID, Configuration T26 and BellRFID
- **Extensions:** MxMultiSense, MxProximityBox
- **Mounts:** AudioMount, DualMount, PT Mount, SurroundMount
- **Software:** Genetec Integration, MOBOTIX App
- **Additional Hardware:** BellRFID, M15 (M16), MxDisplay, Polarisation Filter, **MOBOTIX NAS**

Subscribe to our YouTube channel: <https://www.youtube.com/user/MobotixAG>



6. MOBOTIX eCampus



With eCampus, MOBOTIX offers you a great e-learning platform (registration required). It lets you decide when and where to view and edit training content. Simply open the page in the browser and select the desired offer. You can expect great video tutorials, best practice scenarios, clear diagrams and much more!

Further information on eCampus can be found here on our website:

[mobotix.com > Support > Trainings > Online Courses](https://www.mobotix.com/Support/Trainings/OnlineCourses)

7. Current MOBOTIX Press Releases

#1: Stay On The Safe Side With Intelligent IP Video Systems From MOBOTIX



Langmeil, Germany, February 21st 2019 – MOBOTIX, the leading manufacturer of premium-quality secure IP video systems, is responding to the latest news about the use of non-secure hardware and software in IT or network infrastructures. Global players from the U.S. have already reacted and banned certain manufacturers from public contracts. Australia has also forbidden the use of products from certain manufacturers that are under

suspicion of facilitating unauthorized access to data or not being able of warding off hacker attacks via cells on SoCs (System on a Chip).

Thomas Dieregswiler, Head of Product Management at MOBOTIX, confirms that with certain Systems-on-Chips no reliable protection can be guaranteed when using them. Especially when the basic software is used by third-party SoC vendors, it is difficult to assess the risks for these vendors. SoCs are chips onto which functions of a programmable electronic system (such as an IP-based video surveillance system) are integrated.

MOBOTIX only uses high-performance industrial FPGAs (Field Programmable Gate Arrays) from well-known American manufacturers for its hardware and image generation chains, providing reliable protection for the user. An FPGA is used for the continuous processing of digital signals such as audio and video signals, neural networks and Deep Learning Algorithms / Artificial Intelligence and makes the system far more invulnerable to hacker attacks and espionage software.

“We use proprietary MOBOTIX software on these processors and retain full control over what the entire system does and is capable of,” Thomas Dieregswiler explains. This approach is a core component of the MOBOTIX “Cactus Concept,” a company-wide overall strategy for cyber-secure products and solutions. Alongside numerous technical measures, such as the use of FPGAs, control over the entire value-adding chain is a key factor in implementing the MOBOTIX “Cactus Concept.” “We haven’t detected any hacker attacks on our security systems to date,” Thomas Dieregswiler emphasizes.

In order to prevent security gaps from arising in the first place, the MOBOTIX Security Team regularly checks hardware and software, also in cooperation with internationally recognized penetration test houses. In addition, MOBOTIX offers trainings and webinars to train partners and customers on the topic of security and to raise their awareness for IT security issues.

Thus, MOBOTIX provides end-to-end solutions that offer significantly more protection than the industry standard: A consistent security concept including encryption "Made in Germany", which was successfully tested by SySS GmbH, the market leader in Germany in the field of penetration testing.

#2: Specialized in Deep Learning: MOBOTIX and Konica Minolta Develop New Camera Platform



Langmeil, Germany, February 25th 2019 – MOBOTIX and Konica Minolta are currently developing a new camera platform that specifically meets the requirements of deep learning methods and will lead to innovative recurring revenue models for both companies:

The new MOBOTIX camera platform, jointly developed with Konica Minolta, is based on the distributed intelligence in our camera system and is crucial for artificial intelligence and at the same time the key for the communication of our products with other sensors and devices in the network to enable "Beyond Human Vision" solutions. These solutions include the reliable detection of threats through the combination of different sensor technologies as well as the independent initiation of measures to counter such threats.

The state-of-the-art analysis methods located on the camera itself helps users increase process efficiency and develop new business and revenue models. Future software updates will enable completely new functions based on deep learning methods, such as the recognition of human behavior, moods or voices. In order to make this possible, a so-called "plug-in concept" is being further developed that goes far beyond what is available on competing products. This allows customers to easily create new features similar to developing apps for mobile devices while taking full advantage of the system's performance, including full CPU and GPU power and programmable logic. Examples could be analysing customer behaviour in retail situations and detect emergency situations in elderly homes and hospitals or analyse quality in production lines. The first products based on the new camera platform will be launched in the first quarter of our financial year 2019/20.

8. Updated MOBOTIX Company Profile

About MOBOTIX AG

MOBOTIX is a leading manufacturer of premium-quality, intelligent IP video systems and sets standards for innovative camera technologies and decentralized security solutions with the highest level of cybersecurity. MOBOTIX was founded in 1999 and is based in Langmeil, Germany. MOBOTIX has an in-house research and development department, an in-house production facility in Germany and operates distribution companies in New York, Dubai, Sydney, Paris and Madrid. Customers worldwide trust in the durability and reliability of MOBOTIX hardware and software. The flexibility, built-in intelligence and unparalleled data security of the company's solutions are appreciated in many industries. MOBOTIX products and solutions help customers in industries such as industrial manufacturing, retail, logistics and healthcare. With strong and international technology partnerships, the company will continue to expand its universal platform and develop new applications in the future.

- Visit us online at: www.mobotix.com
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- Follow us on Twitter: https://twitter.com/MOBOTIX_DACH
- Subscribe to our YouTube channel: <https://www.youtube.com/user/MobotixAG>

9. Quick Overview: New MOBOTIX Technology Partnerships



MOBOTIX has long been regarded as a pioneer of security technology. With our technology partnerships we can offer you the best solutions and open up new horizons for your security applications.

We are currently excited about the integration of MOBOTIX video systems into the video management software (VMS) of the following partner companies. If required, please contact these partner companies directly for further details.

MOBOTIX Technology Partner (<https://www.mobotix.com/en/technology-alliance-partner>)

Partner Companies	Integration Solution	Additional Information
ONSSI	Integration of MOBOTIX MOVE into the VMS Ocularis	onssi.com/ocularis/ onssi.com/supported-devices-50/
Genetec	Integration of door station T26 / T25 in Sipelia Communications Management	genetec.com/solutions/all-products/security-center/sipelia-communications-management
Luxriot	Integration of the MOBOTIX Mx6 IoT cameras and MOBOTIX MOVE into the VMS Evo	luxriot.com/product/ip-camera-software/luxriot-evo/