

Hemispheric IP Video Door Station



The HiRes Video Company **MOBOTIX**



Better Overview. Increased Security.

HiRes 180° Panorama View

No blind spots from wall to wall thanks to hemispheric technology

Mobile Remote Access

Worldwide two-way video communication and door opening

Keyless Entry

Door opening via PIN, transponder or MOBOTIX App

Embedded Mailbox

Recording video messages directly at the Door Station

Onboard Long-Term Storage

Automatic recording of all visitors in front of the building

Secure System Design

Efficient protection against theft and unauthorized access



MOBOTIX



Hemispheric Camera with LEDs

- Full two-way communication intercom
- Lip-synchronous sound
- Event-controlled recording
- Outdoor light and doorbell button



Backlit Keypad

- Keyless entry with transponder or PIN
- Check/leave messages
- Open/lock door



Backlit Info Module

- Optionally available with Mx2wire+ unit
- Data transfer and power supply via two-wire connection instead of an Ethernet cable
- For two-wire cables up to 500 m

UNIQUE: ALLROUND VIEW WITH NO BLIND SPOTS AND GLOBAL CONNECTIVITY

MOBOTIX, the world market leader for high-resolution video security systems, is entering the market for intelligent, IP-based access control and home automation systems with its innovative hemispheric T24 IP Video Door Station.

In addition to the **Door Station** (T24-CamCore), the modular T24 system includes the **Access Module** (T24-KeypadRFID), the **Security Door Opener** (T24-DoorMaster) with doorbell and the **Two-Wire Network Module** (T24-Info2wire+).

The new IP telephony standard enables the user to establish a direct connection from the Door Station to any VoIP phone or any computer or smartphone running VoIP software or the **MOBOTIX App**. By setting up the appropriate network infrastructure, the user can establish video connections, remotely open doors or view video messages and review recordings from anywhere around the world.

HiRes 180° Panorama View

With 3.1 megapixels and internal memory, the Hemispheric Door Station records the entire entrance area. No blind spots from wall to wall and from floor to ceiling.

Mobile Remote Access

When the doorbell rings, a connection to a smartphone, tablet or computer is established over the network for two-way video communication and door opening.

Keyless Entry

Who has access and when? Time-controlled access is provided securely via an RFID transponder or PIN.

Embedded Mailbox

If visitors have left audiovisual messages at the door, these can be checked immediately from home or remotely.

Onboard Long-Term Storage

The Door Station records events automatically when someone rings the doorbell or something moves in front of the door.

Secure System Design

All visible and concealed system components are protected: Against theft, manipulation, data access and unauthorized use.

A Module System Made In Germany

The camera module can be used as a compact basic Video Door Station thanks to the integrated doorbell and light buttons. Modules can be combined in different ways upon request. MOBOTIX offers frames for in-wall or on-wall models from one to four modules.



Original HiRes panorama image

Superior Overview

No other video door station in the world can offer this: **MOBOTIX hemispheric camera technology enables the user to view the entire area in front of the building in the video.** This means that the image section can always be focused on any area of interest, regardless of the distance between the Door Station and the door itself. The operator can change the current image section in seconds on the monitor located at the remote station: from an **overview panorama** all the way to a **close-up of the visitor.**

The image is panned and zoomed electronically without any mechanical movement, meaning that there is no wear and tear to the camera and no maintenance is required. In addition, the MOBOTIX system allows users **to return to the recording at a later time and view the entire entrance area**, even if the video at the time of the actual recording was focused on the visitor's face.

vPTZ in the left of the live image



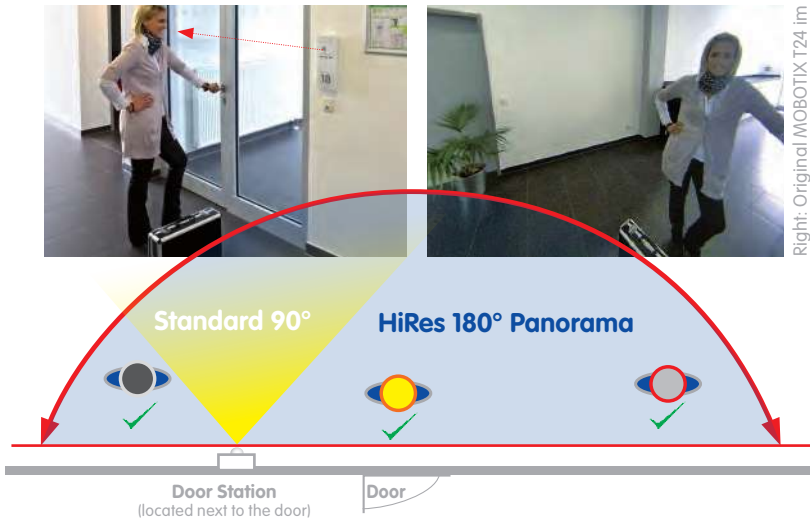
vPTZ in the center of the live image

Virtual PTZ (vPTZ)

The image sections displayed here are corrected by the integrated image correction software. The virtual PTZ feature allows you to enlarge or move the image section just like a PTZ camera, but without any moving parts.

180° Panorama Image Facilitates Installation

Conventional door cameras have a standard 90° lens, meaning that they are only able to record visitors standing directly in front of the lens. However, the Door Station is often mounted next to the door, so the camera's perspective is at an angle to the visitor (see figure below). But even in this case, MOBOTIX T24 delivers perfect images, thanks to its **180° image angle**.



Zoom In Also On Detail

The hemispheric Door Station can do a lot more: For example, it can even record the area on the floor – the often overlooked area directly underneath the Door Station. The T24 does all of this using only its software – **without any mechanical moving parts or motors**, silently, discreetly and without making the visitor feel “observed from bottom to top.”



The high camera resolution of **3.1 megapixels** also means that enlarging details is no problem. On an identification card that is held in front of the Door Station every single letter is legible.



Based On Internet Technology

The Internet technology on which the camera is based makes it possible: The Door Station can be used both at home and **around the world**. The new IP telephony standard enables the user to establish a direct connection from the T24 to any VoIP phone, computer or smartphone running VoIP software. Central control units or computers are not required for operation.

By setting up the appropriate network infrastructure, the user can

- Establish a video connection from anywhere around the world
- Remotely open doors
- View video messages and review recordings

Optional Remote Station

The Door Station is not bound to just one expensive, manufacturer-dependent remote station. It can be connected to any suitable **VoIP videophone** in the world that supports the H.264 (video) and G.711 (sound) standards. It is not necessary to install any software on the videophone. The Door Station displays a basic operating menu created specifically for telephone keypads directly in the camera image. In addition to supporting the intercom feature with video and sound, IP videophones support additional features such as door/light control, image search, quick recording and PTZ functions.

MOBOTIX supplies **MxEasy** software to enable the Door Station to be conveniently operated with a computer. This free-of-charge program, which is offered on the MOBOTIX website, turns any computer (Apple or Windows based) into a multifunctional T24 remote station with an intuitive user interface in no time at all.



Download MxEasy free of charge at
www.mobotix.com

Standardized Network Technology

Connection to the T24 is established using a normal computer network and not using a video cable. This enables you to access the cameras from anywhere in the world via fiber, copper or wireless connection using affordable standard IT components.

Finally, T24 customers can use their iPhone or iPad as a mobile remote station using the new **MOBOTIX App**. A connection can be established over the IP network from anywhere around the world using a WLAN (Wi-Fi) or UMTS.



App for iPad

Grandstream GXV3140
(available from MOBOTIX)

App for iPhone

Laptop with MxEasy
(MOBOTIX software)

MxDisplay

Multi-Purpose Videophone (Video: H.264, Audio: G.711)

The T24 can be connected, for example, to any suitable videophone in the world. In addition to supporting the intercom feature with video and sound, these devices support additional features such as door/light control, image search, quick recording and PTZ functions.



MOBOTIX App

T24 users are able to download the MOBOTIX App to their iPhone or iPad from the Apple App Store in the near future. A connection between these devices and the T24 can be established over the IP network from anywhere around the world via WLAN (Wi-Fi) or UMTS.



Customized For Every End Device

MOBOTIX offers its App for the iPhone, iPad and iPod touch, and the operating elements and resolution are automatically adapted to suit the specific end device.

iPhone And iPad As A Mobile T24 Remote Station

MOBOTIX provides its customers with an **App for the iPhone (for 3GS models and later) and the iPad** via the Apple App Store. The **MOBOTIX App provides fully automatic and mobile notifications** when someone rings the doorbell, and offers options for **two-way video communication** with the visitor and for remotely opening the door.



It is also possible to retrieve voice **mailbox messages**, **live images** and **recordings** from all integrated MOBOTIX Door Stations and cameras.



Innovative Overall Concept

The combination of the hemispheric IP Video Door Station and the MOBOTIX App means that we offer a unique complete system, which guarantees considerable advantages over conventional solutions thanks to its global connectivity and allround view with no blind spots.



The HiRes Video Company

MOBOTIX



Faster Information Allround

Fast information with the T24 status displays in the App. The icons indicate, for example, whether an alarm was set off, the front door is locked or new video messages were recorded.

Always Know What's Going On At Home

The advantages of a mobile remote station are obvious: You always have your smartphone with you and can therefore now be notified if someone rings the doorbell at home while you are out. You can see a live image of the visitor and can **talk to them and open the door remotely**. This is particularly convenient, for example, if you are still stuck in traffic when family members or the housekeeping service are standing in front of your door. Or when the delivery company stops by while you are shopping. You can simply ask the person to leave the delivery with a neighbor rather than having to drive home again.



Increased Security For You And Your Family

Another advantage of the MOBOTIX App is the ability to **turn your alarm system on and off**. In addition to people ringing the doorbell, you will also be notified of other important signals (e.g. motion detectors or window breakage sensor). And all of this happens before you arrive home, thus protecting you and preventing you from coming into contact with any burglars that may still be around.



Wireless Is More Convenient

The wireless remote stations that the MOBOTIX App supports for the iPhone, iPad or iPod touch offer benefits not just for when you are on the move. At home, too, it is useful to be able to take your iPad into the garden or the garage, for example, and still be able to hear the doorbell. Or, in the evening, if you don't want to wake the children, it is useful to be able to **silence the doorbell in the house** and instead receive notifications of visitors at the door on your iPhone set to the vibration alert. Or you can use your iPhone to open an electric-release door that is integrated into the **Door Station without a key**, be it the front door, garage door or driveway.



Many Functions, Easy Operation

The MOBOTIX App enables functions such as live images, two-way communication, access to the latest video messages, switching to other camera images, silencing the doorbell, changing the voice mailbox greeting at the Door Station, searching the recordings of the security cameras, enlarging image sections and adjusting the volume. They all work simply and intuitively, just like the other Apps you use on your iPhone or iPad.



Automatic Event Recording

As the leading manufacturer of high-resolution IP security cameras, MOBOTIX has integrated all of the necessary security features into the Door Station. While standard cameras require the recording function to be switched on and off manually, the modern MOBOTIX system works with intelligent sensor technology and stores data efficiently and automatically without any action on your part. **A recording is started only when, for example,**

...someone rings the doorbell

Residents know who was at the door while they were out. The time of the visit is of course recorded.



...someone was at the door

Who put the package in front of the door and when? A look at the list of recorded events is all that is needed. The motion detector in the Door Station starts the recording automatically.



...when the outdoor light goes on

The recording is triggered by external switch contacts or light sensors or by illumination sensors and IR motion sensors. The camera delivers high-quality images even in the dark since it is connected to the light.



Playing Back Recorded Events

In order to access events from the camera memory, **any integrated remote station can be used**, regardless of whether you are in the house (videophone or computer) or out and connected to the Door Station via a WLAN (Wi-Fi) or UMTS network (iPhone or iPad).



Grandstream GXV3140



MOBOTIX App



MxEasy (PC)

Keeping Track Of All Alarms

The MOBOTIX App offers a range of filters to simplify the search for recorded events. It is possible to search according to time, place or event type. The event that triggered an alarm can be optimally analyzed in the player view.

Full Image Recording Independent Of Live Image

The Door Station's video image that is displayed on the remote station can be seamlessly enlarged and specific image sections can be controlled in split seconds. This is similar to a camera that moves using an electric motor but without the maintenance and wear and tear.



Live image



Stored full image



Analysis in the stored full image

While the **live image** is zoomed in on a particular area of the image, the camera **will continue to record the full sensor image at the same time** (full image without zoom). This feature is not possible with any motorized PTZ camera in the world. But it is extremely important for a **later analysis in the recorded events** ("Look, there was someone below by the door after all!")

Intelligent And Decentralized Storage Technology

The T24 **saves high-resolution video clips with lip-synchronous sound** directly to the **standard 4 GB MicroSD flash card**, without requiring an external storage device or PC and with no additional network load. Old images can be easily overwritten or are automatically deleted after a specified period of time.

A 64 GB MicroSD card can record up to **800,000 panorama images or 66 hours of video**. Flash storage is a mature semiconductor memory technology without any moving parts (and without a mechanical hard drive). Its reliability, simple operation and low costs have made it the storage medium of the future. **MOBOTIX's flash file system (MxFFS)** prevents unauthorized persons from reading the internally stored data, even if the card is stolen.



Factory pre-installed 4 GB MicroSD card

Choose Your Storage Location

Each T24 can be configured so that the camera records either to the internal MicroSD card or to an external network using secure encryption. If required, you can also select the hard drive of the PC as the storage location for the camera.

Inform Visitors Of Your Absence

The MOBOTIX IP Video Door Station makes your day-to-day activities easier with its integrated message function. Residents can leave an audio message that is played back automatically when a visitor rings the doorbell (as with a telephone answering machine that only makes audio announcements but no video recording).



An example: An insurance broker often has appointments with customers. On busy days, he uses the message function on his MOBOTIX Door Station so that he doesn't lose clients, especially unannounced and potential new clients. A visitor who rings the doorbell receives the message that the broker is currently out of the office but that he will be available in person again on the following day from 9 a.m.

Record Messages From Visitors

The MOBOTIX Door Station also allows **visitors to leave a message at the door**. This function also works like a telephone answering machine but with video capability. In addition, **a greeting is automatically played** after the doorbell is pushed (after a specified time), and it asks the visitor to leave a message by holding the blue letter button pushed during the entire message recording.



An example: Now a delivery person or mail carrier can easily let their customers know that someone stopped by and that the package was left with the neighbor.

Leave A Personal Message For The Resident

An additional message function allows visitors to leave **a personal message for a specific contact person**. This message is then only played when the recipients identify themselves using the T24-KeypadRFID.



An example: You can use the function to communicate something to housekeeping staff before they enter to clean the building while you are out. The T24 will immediately play this message when a member of the housekeeping staff opens the door with their RFID card.

Multifunctional Door Station

The convenient message function does not have to be ordered separately from MOBOTIX. This feature comes with each Door Station as standard. The speaker, microphone, camera and memory of the door camera are cleverly used as part of this system.

Hemispheric P Video Door Station in silver. Additional colors (white, dark gray, amber, black) are available.



The Keypad with contactless RFID technology has an integrated message function (blue letter button).

The messages are recorded and played back via the integrated microphone and speaker of the camera module. The data is stored on the camera's MicroSD card.

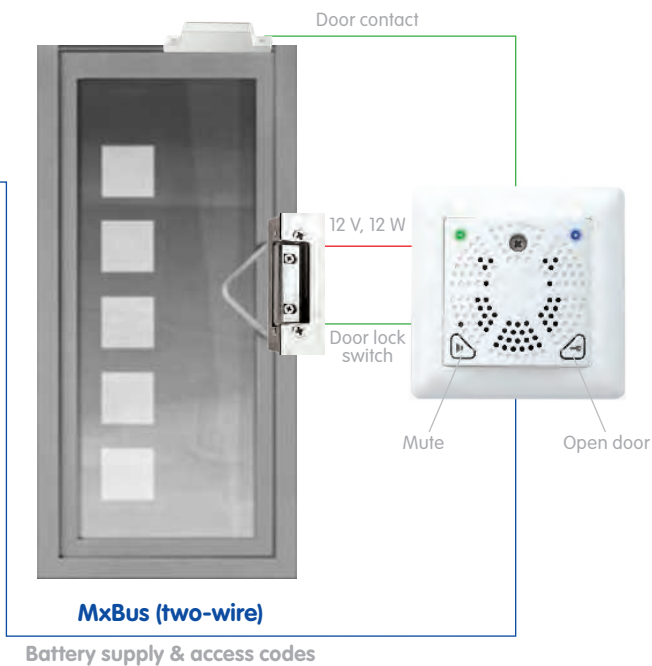


Playing Back Messages On The Keypad

If a visitor left a message for one of the residents, it will be indicated by a flashing LED. The message can be played back at the Door Station after the appropriate person has entered the security code. Video messages can be played back at any of the remote stations.



RFID



Contactless RFID Technology With Transponder

RFID facilitates the automatic identification of visitors and makes it easier to record and save data. An RFID system consists of a transponder (for example, card or key tag) as well as a device for reading the transponder ID (T24 Keypad).

T24-KeypadRFID

Never locked out again! The access module with RFID technology enables **keyless access via the transponder** in the form of a check card or, if you do have a transponder or a house key, by entering a **PIN**. Access requests are encrypted and transferred to the T24-DoorMaster via a two-wire cable and, once the information has been verified, the door opens.



T24-DoorMaster

The **DoorMaster contains all PINs, transponder data and access times for opening the door**. Since this module is installed indoors and, unlike almost all other door stations on the market, no relevant access data is stored outdoors, the Door Station is exceptionally **well-protected against theft and manipulation** (e.g. pulling out the door opener wires from the wall and short-circuiting with a battery).

It is not necessary to connect an extra power source to operate the electrical Door Opener, because the Security Door Opener generates the required voltage with the **integrated rechargeable battery**. Even in the case of a **complete power failure**, the RFID access module – in connection with the rechargeable battery of the DoorMaster – **ensures up to 60 hours of keyless access**.

In addition, the DoorMaster functions as a **doorbell** and the user can select from a wide range of different ring tones.



The access code is encrypted and transferred from the Keypad to the Door Opener and thus, read out and confirmed in the safety of the indoor area before the door is opened

Rechargeable battery for backup power supply: power for Door Opener and Keypad at the outdoor station; door can be opened/locked using PIN/transponder, even during total power failure

Unlock The Door Using An App

Even if you use a T24-Door Station without a Keypad, you can unlock the front door without a key simply using your iPhone/iPad and the MOBOTIX App.



Quick And Cost-Efficient Installation

What does a typical system look like and what kind of cabling is needed? The **system image** shows the schematic structure of hemispheric IP Video Door Station including the DoorMaster, which is installed inside next to the door.

The **network connection and power supply** of the outdoor station are ensured via an Ethernet cable (PoE technology) or alternatively using the **T24-Info2wire+** expansion set via a two-wire **bell wire**, ideal for renovating and old buildings.

MxDisplay



IP videophone



Ethernet & PoE

Ethernet & PoE



Door Station

MxBus

Data and power



T24-DoorMaster

(doorbell, power and backup in the building)

Door contact

Power

Door lock switch

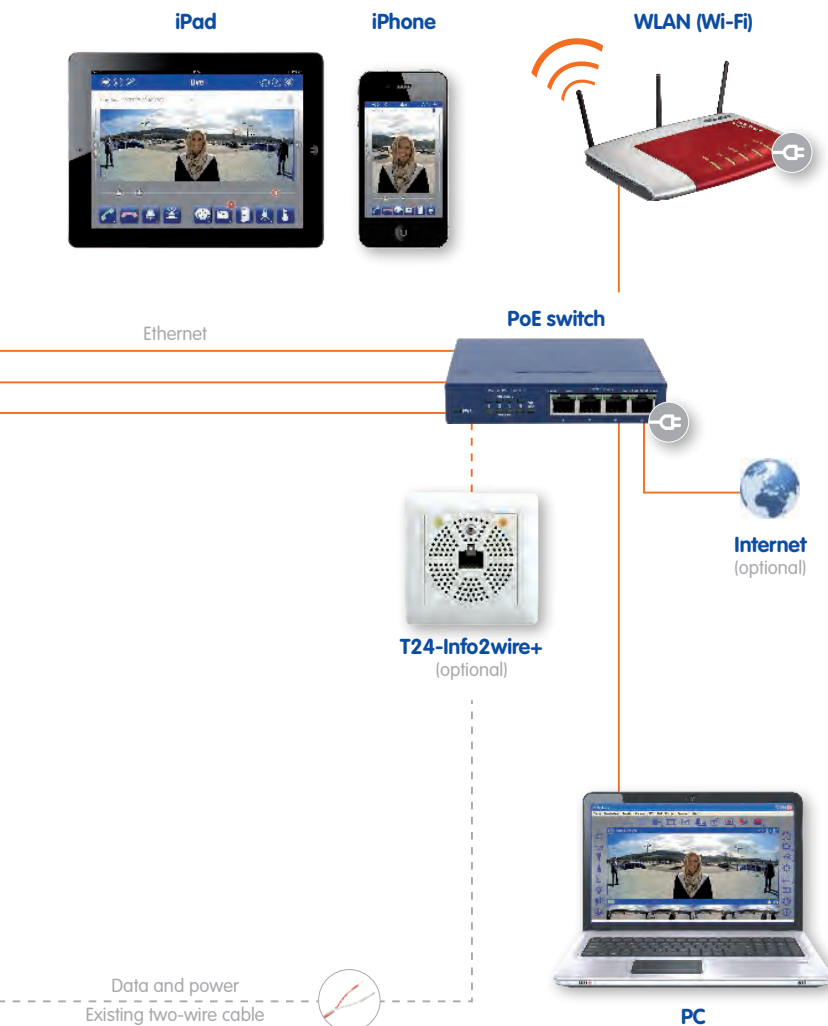


Front door

Simple Network Connection

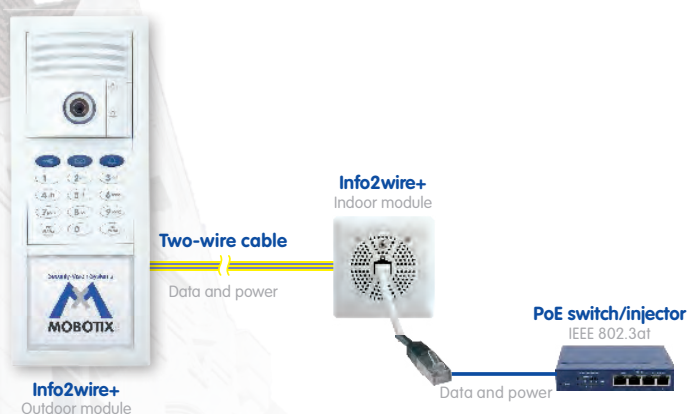
The **outdoor station requires just one cable for data and power** to connect to a PoE switch and thereby to any expandable Ethernet network.

In addition to the outdoor station, you can also install additional modules indoors that can connect to the outdoor station via a switch or MxBus. If the switch is also connected to the Internet, this enables global encrypted access to the Door Station and its functions.



Ideal For Renovating/Old Buildings: MOBOTIX Two-Wire Technology

Are you unable or unwilling to lay a network cable to your front door? No problem, since the two-wire network module available in the modular T24 system (T24-Info2wire+), which can replace the simple info module of the Door Station in the form of an illuminated door sign, supplies power to the IP Video Door Station and establishes the network connection via two standard bell wires.



The existing doorbell or simple door intercom system can be replaced by a versatile MOBOTIX access control system with a high-resolution door camera with little extra effort or cost. This way, the station can be integrated in any older building, either as an on-wall or in-wall version. In most cases, there is no need for the time-consuming and costly process of drilling and laying additional cables.

Automatic Operation At The Push Of A Button

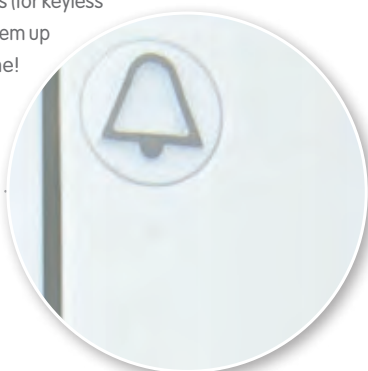
Once the Door Station is installed and connected, it is ready for operation within just a few minutes. The entire T24 system was designed by MOBOTIX to allow it to be **started up quickly and easily by a single user.** You can start up and configure the entire system without the need for a PC, any other special devices or prior detailed knowledge of networks.

Fast, Simple Installation

In new constructions, MOBOTIX recommends connecting a CAT7 cable directly to the Door Station. In renovations or in older buildings, the existing bell wires can be used further together with MOBOTIX two-wire technology.

It's That Simple:

Simply connect all devices in accordance with the connection diagram supplied in the system manual and briefly disconnect the Door Station from the power supply (e.g. pull out the plug). **Press the doorbell button** as soon as the light and bell buttons on the camera module to light up. **The auto configuration begins and the system configures itself in the network.** Now, simply enter a security PIN and any number of RFID cards (for keyless access) by holding them up to the Keypad. Done!



Step-By-Step Instructions

As standard with MOBOTIX, detailed, colorfully illustrated and clear instructions are supplied with the hemispheric IP Video Door Station for installation, start-up and operation (www.mobotix.com > Support).

Low Cost, Low Energy Requirements

The automatic installation enables the user to set up the system quickly and easily without the need for extensive network knowledge. The Door Station consumes very little power (around five watt-hours), which is provided directly via the Ethernet cable.

Customized System

MOBOTIX systems are never too big or too small. The T24 is a modular system for both private and commercial use and can be easily adapted to suit the specific and ever-changing needs of the customer. The hemispheric camera module (T24-CamCore) with compatible installation frame is an affordable, ready-to-use starter Door Station, thanks to its **integrated doorbell and light buttons, the high-quality microphone and the powerful speaker**.



MOBOTIX offers this highly robust and weatherproof outdoor station (IP65, suited for -30°C to +50°C/-22°F to +140°F) in **five attractive colors as an in-wall or on-wall version**. If desired, the sturdy frame can be ordered with an optional **integrated anti-theft device** that prevents the modules from being removed easily.

Planning And Ordering

You can use the T24 **Web Configurator** tool on the MOBOTIX website to plan your individual Door Station. The web configurator can be found at www.mobotix.com under "Products". You can choose the individual components step-by-step so that no individual component is forgotten. After you have finished the configuration, the system creates a preview image of the system as well as a parts list so that a concrete offer request can be sent to the electronics specialist contracted to install the system. Alternatively, you can purchase the products directly from the MOBOTIX website.



Software Included

MOBOTIX customers always receive custom software for system setup and operation, completely free of charge. The T24 can be controlled via any remote station (PC, VoIP phone, iPad/iPhone), even worldwide if an Internet connection is available.



White (PW)
Single frame



Silver (SV)
Single frame



Dark gray (DG)
Single frame



Black (BL)
Single frame



Amber (AM)
Single frame

T24-CamCore
(minimum equipment)



White (PW)
Double frame



Silver (SV)
Double frame



Dark gray (DG)
Double frame



Black (BL)
Double frame



Amber (AM)
Double frame

T24-CamCore and
T24-KeypadRFID



White (PW)
Double frame



Silver (SV)
Double frame



Dark gray (DG)
Double frame



Black (BL)
Double frame



Amber (AM)
Double frame

T24-CamCore and
T24-Info/T24-Info2wire+



White (PW)
Triple frame



Silver (SV)
Triple frame



Dark gray (DG)
Triple frame



Black (BL)
Triple frame



Amber (AM)
Triple frame

T24-CamCore,
T24-KeypadRFID and
T24-Info/T24-Info2wire+

Heat From Sun Is Stronger On Darker Devices

Dark-colored devices heat up more easily in direct sunlight than lighter ones. Therefore, to avoid potential damage, MOBOTIX recommends installing only white or silver Door Stations in unprotected outdoor areas.

Product	Article number	Comment
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T24 Complete Set 1*	MX-T24M-SK-1-PW	Color: White For Ethernet connection
T24 Complete Set 3*	MX-T24M-SK-3-PW	Color: White For Ethernet connection and the secure electrical door opener
T24 Complete Set 4*	MX-T24M-SK-4-PW	Color: White For two-wire connection
T24 Complete Set 2*	MX-T24M-SK-2-PW	Color: White For two-wire connection and the secure electrical door opener

***Contents:** T24-CamCore, T24-KeypadRFID including cards, triple frames with in-wall and on-wall housing, USB flash drive (sets 1 to 4), T24-OPT-ETH, T24-Info (sets 1 and 2), T24-Info2wire+ (sets 3 and 4) and T24-DoorMaster (sets 2 and 4)



T24-CamCore Day	MX-T24M-Sec-D11-PW	Color: White, including lens
T24-CamCore Day	MX-T24M-Sec-D11-SV	Color: Silver, including lens
T24-CamCore Day	MX-T24M-Sec-D11-DG	Color: Dark gray, including lens
T24-CamCore Day	MX-T24M-Sec-D11-BL	Color: Black, including lens
T24-CamCore Day	MX-T24M-Sec-D11-AM	Color: Amber, including lens
T24-CamCore Night	MX-T24M-Sec-N11-PW	Color: White, including lens
T24-CamCore Night	MX-T24M-Sec-N11-SV	Color: Silver, including lens
T24-CamCore Night	MX-T24M-Sec-N11-DG	Color: Dark gray, including lens
T24-CamCore Night	MX-T24M-Sec-N11-BL	Color: Black, including lens
T24-CamCore Night	MX-T24M-Sec-N11-AM	Color: Amber, including lens




T24-KeypadRFID	MX-Keypad1-EXT-PW	Color: White
T24-KeypadRFID	MX-Keypad1-EXT-SV	Color: Silver
T24-KeypadRFID	MX-Keypad1-EXT-DG	Color: Dark gray
T24-KeypadRFID	MX-Keypad1-EXT-BL	Color: Black
T24-KeypadRFID	MX-Keypad1-EXT-AM	Color: Amber



T24-Info	MX-Info1-EXT-PW	Color: White
T24-Info	MX-Info1-EXT-SV	Color: Silver
T24-Info	MX-Info1-EXT-DG	Color: Dark gray
T24-Info	MX-Info1-EXT-BL	Color: Black
T24-Info	MX-Info1-EXT-AM	Color: Amber

Product	Article number	Comment
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T24-Info2wire+	MX-2wirePlus-Info1-EXT-PW	Color: White; Indoor unit: White
T24-Info2wire+	MX-2wirePlus-Info1-EXT-SV	Color: Silver; Indoor unit: White
T24-Info2wire+	MX-2wirePlus-Info1-EXT-DG	Color: Dark gray; Indoor unit: White
T24-Info2wire+	MX-2wirePlus-Info1-EXT-BL	Color: Black; Indoor unit: White
T24-Info2wire+	MX-2wirePlus-Info1-EXT-AM	Color: Amber; Indoor unit: White


T24-OPT-ETH	MX-OPT-IO2	Ethernet terminal board
T24-OPT-IO	MX-OPT-IO1	Extended terminal board




Single frame	MX-OPT-Frame-1-EXT-PW	Color: White
Single frame	MX-OPT-Frame-1-EXT-SV	Color: Silver
Single frame	MX-OPT-Frame-1-EXT-DG	Color: Dark gray
Single frame	MX-OPT-Frame-1-EXT-BL	Color: Black
Single frame	MX-OPT-Frame-1-EXT-AM	Color: Amber



Double frame	MX-OPT-Frame-2-EXT-PW	Color: White
Double frame	MX-OPT-Frame-2-EXT-SV	Color: Silver
Double frame	MX-OPT-Frame-2-EXT-DG	Color: Dark gray
Double frame	MX-OPT-Frame-2-EXT-BL	Color: Black
Double frame	MX-OPT-Frame-2-EXT-AM	Color: Amber



Triple frame	MX-OPT-Frame-3-EXT-PW	Color: White
Triple frame	MX-OPT-Frame-3-EXT-SV	Color: Silver
Triple frame	MX-OPT-Frame-3-EXT-DG	Color: Dark gray
Triple frame	MX-OPT-Frame-3-EXT-BL	Color: Black
Triple frame	MX-OPT-Frame-3-EXT-AM	Color: Amber





Product	Article number	Comment	
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Single on-wall socket	MX-OPT-Box-1-EXT-ON-PW	Color: White
Single on-wall socket	MX-OPT-Box-1-EXT-ON-SV	Color: Silver
Single on-wall socket	MX-OPT-Box-1-EXT-ON-DG	Color: Dark gray
Single on-wall socket	MX-OPT-Box-1-EXT-ON-BL	Color: Black
Single on-wall socket	MX-OPT-Box-1-EXT-ON-AM	Color: Amber
Single in-wall socket	MX-OPT-Box-1-EXT-IN	Color: Blue



Double on-wall socket	MX-OPT-Box-2-EXT-ON-PW	Color: White
Double on-wall socket	MX-OPT-Box-2-EXT-ON-SV	Color: Silver
Double on-wall socket	MX-OPT-Box-2-EXT-ON-DG	Color: Dark gray
Double on-wall socket	MX-OPT-Box-2-EXT-ON-BL	Color: Black
Double on-wall socket	MX-OPT-Box-2-EXT-ON-AM	Color: Amber
Double in-wall socket	MX-OPT-Box-2-EXT-IN	Color: Blue



Triple on-wall socket	MX-OPT-Box-3-EXT-ON-PW	Color: White
Triple on-wall socket	MX-OPT-Box-3-EXT-ON-SV	Color: Silver
Triple on-wall socket	MX-OPT-Box-3-EXT-ON-DG	Color: Dark gray
Triple on-wall socket	MX-OPT-Box-3-EXT-ON-BL	Color: Black
Triple on-wall socket	MX-OPT-Box-3-EXT-ON-AM	Color: Amber
Triple in-wall socket	MX-OPT-Box-3-EXT-IN	Color: Blue

Product	Article number	Comment
		
Double doorbell button module (Siedle)	TM 612-2 PW	Color: White
Double doorbell button module (Siedle)	TM 612-2 SV	Color: Silver
Double doorbell button module (Siedle)	TM 612-2 DG	Color: Dark gray
Double doorbell button module (Siedle)	TM 612-2 BL	Color: Black
Double doorbell button module (Siedle)	TM 612-2 AM	Color: Amber
		
Four-piece doorbell button module (Siedle)	TM 612-4 PW	Color: White
Four-piece doorbell button module (Siedle)	TM 612-4 SV	Color: Silver
Four-piece doorbell button module (Siedle)	TM 612-4 DG	Color: Dark gray
Four-piece doorbell button module (Siedle)	TM 612-4 BL	Color: Black
Four-piece doorbell button module (Siedle)	TM 612-4 AM	Color: Amber
		
T24-DoorMaster	MX-Door1-INT-PW	Color: White
T24-DoorMaster rechargeable battery	MX-Door1-BAT	none
		
RFID transponder card	MX-AdminCard1	1 admin card
RFID transponder card	MX-UserCard1	1 user card
		
IP videophone	Grandstream GXV3140	Color: Black
		
MxEasy & App	—	PC, Mac & iPhone, iPad, iPod touch



Power Supply Devices

Additional devices to those listed here are required to supply power to the Door Station configured by you (e.g. PoE switch, transformer). Please read the T24 system manual or contact our support team for information on this issue (intl-support@mobotix.com).

T24 – A Forward-Looking System

With the T24, MOBOTIX launched a product series on the home automation market that is being continuously and dynamically expanded and improved. Here, we would like to briefly introduce you to our development department and present some of the products that will be produced in the near future. Only the best for MOBOTIX customers: The T24 innovations of tomorrow are also compatible with Door Stations that are purchased today.

T24-BellRFID Doorbell Module

With one, two or four buttons and integrated RFID technology. As an alternative to the Keypad and if hardware door bells are required.

T24-LightSense Radar-Controlled Outdoor Light

Turns on (and off) automatically in the dark **if someone approaches**. The LED backlight module, which is integrated into the outdoor station and supplied with power via the PoE port, is bright enough to enable the door camera to record clear color images at night.

New Frames And Housing For The Outdoor Station

A new **four-piece frame** with matching in-wall or on-wall housing integrates four modules and is equipped with an electromagnetic anti-theft protection mechanism.

A further development is a special **T24 FlatFrame** to ensure that you can integrate the Door Station as

seamless as possible into stainless steel surfaces. The installation set is available for individual modules that can be wired to a specific Door Station.



Convenient Interface Boxes

Users can boost the performance of the entire video system with the new, weatherproof and easy-to-install interface boxes. The boxes introduce useful features such as a central system time or act as power amplifiers for the use of several MxBus modules.

MxDisplay With Touch Screen

The display is a versatile expansion module of the hemispheric IP Video Door Station and fits into the system frames and the housing of the Door Station.

Equipped with **touch screen**, the device functions as **video intercom**, installed in a house, for **MOBOTIX Door Stations**, and **security cameras** - including **switching functions for door opener and light as well as to retrieve mailbox and event recordings**. The device does not require a power connection because it is powered over **PoE standard** via the network cable.



MxDisplay For Indoors And Outdoors (IP65)

The T24 is also weatherproof in accordance with IP65. It can therefore be integrated into the outdoor station as a multifunctional module and enables real doorbell keys or a keypad to be displayed virtually.

DVR: Abbreviation of Digital Video Recorder.

Ethernet: The most common technology for communication within a wired network. It facilitates data exchange between all devices (computers, printers, IP cameras, IP videophones, etc.) connected in a local network (LAN).

Events: An event refers to a situation when something happens or changes. In terms of video surveillance, this means a change in the status of an area that is being monitored. This may be movement of a person, a change in brightness, a drop in ambient temperature, the detection of a noise via a microphone, an electrical signal at a signal input, the manual operation of a button, etc.

Flash memory: See MicroSD card.

Frame rate: The frame rate specifies how many frames per second (fps) are generated and sent by the camera. 16 fps and higher is perceived by the human eye as a fluid video sequence.

G.711: G.711 refers to the process by which analog audio signals are encoded and decoded. This codec (= enCOder-DECoder) is used in classic telephone systems and IP telephony.

H.264: H.264 is the process by which the video image is encoded/compressed and decoded.

HiRes: Abbreviation for High Resolution. Refers to high-resolution images (above one megapixel).

IP network: Data network based on the Internet protocol (TCP/IP).

IP telephone: See VoIP.

LED: Abbreviation of Light Emitting Diode, an electronic semiconductor component built into MOBOTIX cameras and add-on modules that emits light when a current flows through the component in the correct direction.

Megapixel: Images that have more than one million pixels.

MicroSD card: SD Memory Card (Secure Digital Memory Card). A digital storage medium based on flash storage modules.

Motion Detection: "Motion detection": Capturing movement within a specific area. MOBOTIX cameras use algorithms to detect changes from frame to frame in predefined areas, while taking preset conditions into account. If a camera detects a movement, it signals an event and triggers an alarm.

MxEasy: Free MOBOTIX video management software for small and compact camera networks of up to 16 cameras/Door Stations.

MxPEG: Method developed by MOBOTIX to compress and store image and video data with low network load and high image quality. The MxPEG ActiveX control element allows video and audio data from MOBOTIX cameras to be displayed in other applications (including Internet Explorer).

Network: A group of end devices, such as computers, that are connected via cables and share access to data and devices such as printers and IP cameras.

PIR sensor: Passive infrared sensor for motion detection.

PoE: Power-over-Ethernet. A technology for supplying network-enabled devices (for example, IP cameras) with power via an Ethernet cable.

PTZ: Abbreviation for Pan/Tilt/Zoom. Refers to the movement of a video camera to the left and right, up and down, and to the camera's ability to enlarge an image.

Resolution: Indicates the number of pixels used to produce an image. The more pixels an image has, the more recognizable the details remain when the image is enlarged. The resolution is expressed as the number of pixel columns by pixel rows or as a total number of pixels. A VGA image has 640 columns and 480 rows (640 × 480), which equals 307,200 pixels or approximately 0.3 megapixels. The T24 has 3.1 megapixels.

RFID: Radio frequency identification.

Router: Network device that connects multiple networks with one another. The router establishes a physical connection between the devices in different networks (like a hub), analyzes the relevant data packets and forwards ("routes") these packets to the correct target network.

Searches: Monitoring of recordings or searching for a particular event.

SIP: Session Initiation Protocol. Network protocol for setting up, controlling and terminating a communication connection via a computer network. SIP is frequently used in conjunction with IP telephony.

Switch: Hardware used to connect multiple network devices (computers, cameras, printers, etc.) within a network. A PoE switch can also supply the (door) cameras with power over an Ethernet cable.

Transponder: A transponder is a device used for wireless communication (for example, as a key fob or a check card). The device detects the incoming signal and automatically responds to it or forwards it. The term "transponder" is made up of the terms "transmitter" and "responder." Passive transponders do not require their own power source, but they only work over short distances.

VoIP: Voice-over-IP. Telephony using computer networks.

WLAN (Wi-Fi): Wireless local area network connection.

Complete HiRes Video Solutions high-resolution, digital & cost-effective recording



HiRes Video Innovations

Since it was founded in 1999, the listed German company MOBOTIX AG has been regarded as the leading pioneer in network camera technology and its **decentralized concept has made high-resolution video systems cost-efficient**. Whether in embassies, airports, train stations, ports, gas stations, hotels and highways, MOBOTIX video systems have been used for years on every continent.

Technological Leader In The Area Of Network Cameras

In just a short time, MOBOTIX has climbed to the second place in European market share and fourth place worldwide in terms of market share. MOBOTIX has exclusively produced megapixel cameras for years and is the **global leader for high-resolution video systems**. The **decentralized MOBOTIX concept** is characterized by the fact that a high-speed processor is built into every camera and, if required, a digital memory (MicroSD card) can also be integrated for long-term recording.

MOBOTIX cameras can make event-driven recordings without a central PC or DVR and can digitally store videos with sound for long-term use. This is why MOBOTIX solutions represent an unbeatably good value despite their better image quality, even for small-scale installations.

Free Consulting Service

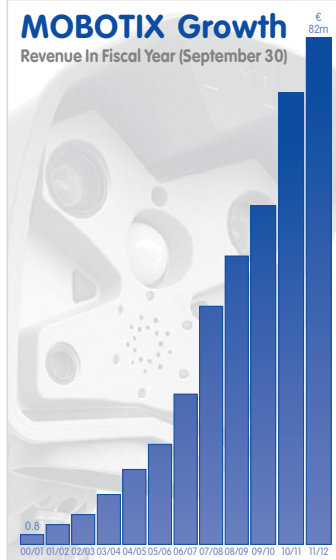
Simply call us or send us an e-mail. We will get in touch with you promptly.

With MOBOTIX, you're in the best hands right from the start. Both our internal project managers and our experienced, highly specialized partners make sure that every system is planned and installed optimally. Our support specialists can help you with any technical questions you may have.

You can also consult
your electrician or IT
technician

MOBOTIX Growth

Revenue In Fiscal Year (September 30)



MOBOTIX Training Programs And Seminars

MOBOTIX has a high-tech training campus at the company headquarters in Langmeil, Germany, for all interested parties, customers, security companies and sales partners. For more information and to apply online, go to: www.mobotix.com



Hemispheric IP Video Door Station



The HiRes Video Company **MOBOTIX**



Better Overview. Increased Security.

HiRes 180° Panorama View

No blind spots from wall to wall thanks to hemispheric technology

Mobile Remote Access

Worldwide two-way video communication and door opening

Keyless Entry

Door opening via PIN, transponder or MOBOTIX App

Embedded Mailbox

Recording video messages directly at the Door Station

Onboard Long-Term Storage

Automatic recording of all visitors in front of the building

Secure System Design

Efficient protection against theft and unauthorized access



MOBOTIX