



MOBOTIX 6MP camera for flexible use in indoor applications, install as complete Indoor Camera p25 (Day or Night) with selected lenses or as camera module p25 (Day or Night) with separate lens (MX-B036 to www.mobotix.com > Products > p25

32.356-003 EN 02/2016

Variants of the p25



MOBOTIX p25 (Day) with lens MX-B036

MX-p25-D036

• Includes MxAnalytics video analysis tools out-of-the-box

• Installation is as simple as installing a ceiling spotlight

• Recording on internal MicroSD card (SDXC, SDHC pre-installed) • Signal Input/Output and MxBus via optional MX-Bus-IO-Module

Audio package variant (with microphone and speaker) available

• Sensors for temperature, illumination, shock detection integrated

MX-p25-Day	MX-p25-Night	
6MP (3072x2048) Color	6MP (3072x2048) Black&White	Variant
MX-p25-BOD1*	MX-p25-BOD1-N*	p25 camera module, for lenses MX-B036 to MX-B237 (f/1.8, 103° to 15°, self-mounted*)
MX-p25-D016	MX-p25-N016	p25 Hemispheric with Fisheye lens MX-B016 (f/2.0, 180° horiz. angle of view)
MX-p25-D036	MX-p25-N036	p25 with ultra-wide-angle lens MX-B036 (f/1.8, 103° horiz. angle of view)
MX-p25-D061	Self-mounted* with MX-p25-BOD1-N	p25 with wide-angle lens MX-B061 (f/1.8, 60° horiz. angle of view)
MX-p25-D079	Self-mounted* with MX-p25-BOD1-N	p25 with standard lens MX-B079 (f/1.8, 45° horiz. angle of view)
MX-p25-D119	Self-mounted* with MX-p25-BOD1-N	p25 with tele lens MX-B119 (f/1.8, 31° horiz. angle of view)
MX-p25-D237	Self-mounted* with MX-p25-BOD1-N	p25 with distance tele lens MX-B237 (f/1.8, 15° horiz. angle of view)
ires focusing after self-ma	ounting the lens (see «Initial Opera	ation of the p25»)

p25 Standard Delivery



Item	Count	Part Name
1.1	1	Housing with spring clips and tiltable camera receptacle (installed)
1.2	1	Back cover (installed)
1.3	1	Main board with lens mount (installed)
1.4	1	Lens (only installed in camera models listed in «Variants of the p25»)
1.5	1	Blind cover (only when self-mounting the lens with MX-p25-BOD1)
1.6	1	Ethernet patch cable, 50 cm/19.7 in, black (installed
1.7	1	MicroSD card pre-installed (SDHC installed, SDXC supported)
1.8	1	Flat-head screwdriver, blue
1.9	1	Lens wrench red (only with MX-p25-BOD1 and lenses D036 to D237)
1.10	1	Allen wrench 1.5 mm

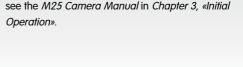
For information on connecting the p25, please see

Connecting the p25



supply to the camera is disconnected before opening the housing!

the M25 Camera Manual, section «Network and Power Connection, Additional Cables». Regarding the initial operation of the p25, please





The steps listed below are only required if the p25 has been ordered with separate lens for self-mounting (see «Variants

Installing the Lens (Only MX-p25-BOD1 Variant)

of the p25»). 2. Install the lens 1. Remove the blind cover

Remove the blind cover that protects the image sensor during shipping from the

lens mount.



Screw the lens into the lens mount. Depend-

ing on the physical length of the lens, you can use your hand and then the red lens wrench (item 1.9). After initial operation of the camera, remember to adjust the focus of the lens (see «Initial Operation of the p25»).



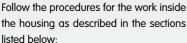
Removing/Installing the Back Cover The steps listed below are only required if you need to access the inside of the camera housing. Make sure the power

Caution: In order to avoid damage from electrostatic discharge, you should touch a grounded device before opening the housing of the camera (e.g., the blank metal at the back of a computer). This will remove any static electricity that

may have built up. 1. Remove the cover 3. If required, enlarge the cable guide



and gently press inward to release the lock. Repeat the process for the two other locks and lift the back cover from the housing. 2. Follow the procedures



→ Installing the MX-Bus-IO-Module

• → Inserting/Exchanging the SD Card



If the cable guide is not large enough for additional cables, enlarge the guide accord-

ingly. Depending on the size required, break out either one or two elements of the cable guide using pliers (see blue markings in the figure). 4. Attach back cover







All camera models can use the integrated microSD card (SDXC) to record video data. In order to exchange the microSD card, please proceed as outlined in the following instruction. For information on reliable SD cards, please see the MOBOTIX website www.mobotix.com > Support > MX Media Library >

Planning in the document MicroSD Card Whitelist for MOBOTIX Cameras. When replacing the SD card, make sure that recording has been deactivated in the browser (Admin Menu > Storage > Storage on External File Server / Flash Device; activate recording again in the same dialog). Follow the instructions in section "Removing/Installing the Back Cover" to access the inside of the camera and to close it again after inserting the SD card.

1. Remove the SD card 2. Insert the SD card Insert the microSD card and gently press If a microSD card has been installed, gently

press with your finger as indicated by the arrow until you hear a *click*. Then release

the SD card. The card is protruding slightly and can be easily removed.



until you hear another *click*. Make sure that the SD card is fully inserted.

with your finger as indicated by the arrow

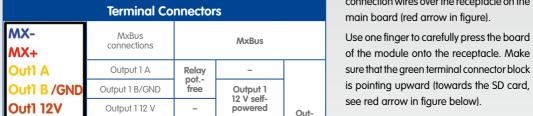




MX-GPS-Box), to attach external sensors using the signal inputs and to switch other devices via the signal outputs. To facilitate the installation of the module, you should attach the connection wires before inserting

and to close it again after inserting the module. 2. Insert the MX-Bus-IO-Module 1. Attach the connection cables Attach the connection cables as shown in the terminal connector overview.

For the p25, you can use the optionally available MX-Bus-IO-Module to attach MxBus devices (e.g., an



IVINT					
Out1 A	Output 1 A	Relay	-		
Out1 B /GND	Output 1 B/GND	pot free	Output 1 12 V self-		
Outl 12V	Output 1 12 V	-	powered	Out-	
Out2 A	Output 2 A	Relay	-	puts	
Out2 B/GND	Output 2 B/GND	pot free	Output 2 12 V self-		
Out2 12V	Output 2 12 V	-	powered		
IN1 -	Input 1 –				
IN1 +	Input 1 +	1			
IN2 - 🚺 🗒	Input 2 –	1	Inputs		
IN2 +	Input 2 +				

Hold the MX-Bus-IO-Module with attached connection wires over the receptacle on the

sure that the green terminal connector block is pointing upward (towards the SD card, Make sure that the MX-Bus-IO-Module is



when adjusting the camera tilt (see figure).





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Follow the instructions in section «Removing/Installing the Back Cover» to access the inside of the camera

Installing the p25

Use the drilling template on the back for this purpose (red circle) or draw a circle with 105 mm/4.13 in diameter for the cut-out. Cut out the hole for the camera, then guide the cables (network cable, USB cable, MxBus and signal input/ output wires) through the hole.



1. Install the p25

Press the spring clips back and insert the p25 into the hole for the camera. The spring clips will snap outwards, thus firmly holding the camera in place.

Make sure that you only press back the spring clips as shown in the image. Do not press them back any further as the springs may snap out of their fixtures otherwise.



2. Roughly align the p25

Turn the camera until it roughly points into the intended direction; once it is running, you will adjust the camera according to the live image (see «Initial Operation of the p25»).



2. Remove the cables

Removing the p25

Initial Operation of the p25

1. Pull out the camera

Pull the camera from its position by gently pulling the camera downward on one side, then the other side. Take care to NOT let the spring clips snap forward (risk of injury!).

Stick the blue screwdriver

image of the camera

the lock screw 2

(item 1.8) into the receptacle for adjust-

ing the camera tilt. Adjust the camera

tilt as needed while watching the live

Lock the camera tilt by slightly tightening

Remove the cables coming from the building (network cable, USB cable, MxBus and signal input/output wires). Pull out the camera.

Screw for locking the



1. Set installed lens (only when self-mounting)

Open Admin Menu > Hardware Configuration > Lens Configuration dialog and select the installed lens. This step is required to select the proper special functions of the installed lens

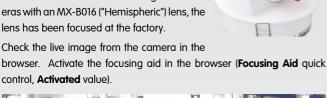


The initial operation starts with connecting the power supply (see section «Network and Power Connection, Additional Cables» in the M25 Camera Manual). The first access follows the procedure described in the same manual in the section «Initial Operation of the Camera». All other tasks require access to the camera's user interface in the browser. Enter the camera's IP address into the address bar of the browser.

2. Adjust lens focus (if required) This step is only necessary if the lens has been

(e.g., for wide-angle lenses).

installed for the first time or exchanged. In cameras with an MX-B016 ("Hemispheric") lens, the lens has been focused at the factory.



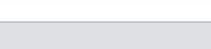


possible. Remove the lens wrench every time you changed the lens focus. Once the focus is adjusted properly, deactivate the focusing aid again (Focusing Aid quick control, Disabled value).

3. Adjust viewing direction

Turn the image in the ceiling until the live image shows the desired viewing direction

Stick the Allen wrench (item 1.10) into the hole of the lock screw and loosen the screw a bit 2.





4. Configuring and Using the MX-Bus-IO-Module

The camera will automatically detect an installed

MX-Bus-IO-Module (see Camera Status, System section in browser). The signal inputs can be used right away in the

applied at the next camera reboot.

#2 B/GNI signal input profiles in the Setup Menu > Event **Out2 12V** Overview. Likewise, the signal outputs can be used in the *signal output profiles* in Admin Menu > Hardware Configuration > Signal Out Profiles. In addition, the signal inputs/outputs have been entered automatically in the Admin Menu > Assign Wires dialog and can be used to control

doors and lights. To use one or both signal outputs not as potential-free outputs (for relays), but as self-powered 12 V outputs, open the Admin Menu > Hardware Configuration > Manage Hardware Expansions dialog. In the MxBus/

IO Board section, click on Connect for each output you want to use as self-powered output. 5. Save the configuration In the live image of the browser, select the **Manage Settings** quick control and set Store Entire Configuration as value. The camera stores the con-

figuration in the permanent camera memory so that the settings will be

• Make sure the power supply to the camera is disconnected before opening the camera housing (e.g., when exchanging the SD card). MOBOTIX products include all of the necessary configuration options

Important Notes

• This product must not be used in locations exposed to the dangers

Lens Options

Safety Warnings

- Make sure that you install this product as outlined in the installation instructions above.
- When installing this product, make sure that you are only using genuine MOBOTIX parts and MOBOTIX connection cables. • Only install this product in suitable, solid materials that provide for a
- sturdy installation of the fixing elements used. When removing the camera from the ceiling, make sure that the spring clips do not snap back (risk of injury!).
- Electrical systems and equipment may only be installed, modified and maintained by a qualified electrician or under the direction and supervision of a qualified electrician in accordance with the applicable electri-

cal guidelines. Make sure to properly set up all electrical connections.

• When attaching modules to the USB connector, the *power consumption*

of all attached modules must not exceed 1 W. • Due to the high performance of the p25, the area of the image sensor can get quite hot, especially when the ambient temperature is also high. This does not affect the proper functioning of the camera in any

way. This camera must not be installed within the reach of persons.

p25 (Differences Compared to M25)

- for operation in Ethernet networks in compliance with data protection laws. The operator is responsible for the data protection concept across
- the entire system. The basic settings required to prevent misuse can be configured in the software and are password-protected. This prevents unauthorized parties from accessing these settings. • Make sure that the operating temperature of 0 to $+40 \,^{\circ}\text{C}/+32$ to $+104 \,^{\circ}\text{F}$ is not exceeded
- **Legal Notes** You must comply with all data protection regulations for video and sound

monitoring when using MOBOTIX products. Depending on national laws and the installation location of the p25, the recording of video and sound data may be subject to special documentation or it may be prohibited. All

users of MOBOTIX products are therefore required to familiarize themselves with all valid regulations and comply with these laws. MOBOTIX AG is not liable for any illegal use of its products. **Technical Specifications**

> **MX-Bus-IO-Module** 2 galvanically separated inputs

MX-B016 to MX-B237 (180° to 15° hor. angle of view)

39 mm/1.54 ir

(AC/DC, 0 to 48 V) Max. Image Size 6MP in 3:2 format (3072x2048) Variant 1 (default): 2 potential-free outputs (max. load per pin: max. 30 W or max. 1 A or max. 48 V AC/DC) Audio package variant (with microphone and speaker) Outputs

Since the p25 is identical to the M25 for the most part, the technical data listed in the M25 Camera Manual in Section «Technical Data» also applies to this product. You can find the M25 Camera Manual as a PDF file on www.mobotix.com > Support > Manuals.

Audio Functions	available and speaker)			
Interfaces	Ethernet 10/100, IPv4/IPv6, MiniUSB; MxBus and inputs/outputs using optional MX-Bus-IO-Module			
Power Consumption	Typ. 4 W			
Operating Conditions	IP20 (DIN EN 60529) 0 to +40 °C/+32 to +104° F (DIN EN 50155)			
Max. Thickness for Installation	Spring clips properly clamp down on materials from 1 to 28 mm/0.04 to 1.1 in			
Dimensions	Outside diameter 120 mm/4.72 in, total height 85 mm/3.35 in, height installed 46 mm/1.81 in, recom- mended min. installation depth 50 mm/1.97 in			
Materials	Housing: PBT GF30			
Weight	approx. 270 g			
		Dimensions/E		
Outside o	diameter 120 mm/4.72 in	Max. thickness for installation— 28 mm/1.1 in		

-		max. 50 mA per output	
	Add. Interfaces	MxBus connections for MOBOTIX peripheral devices	
	Operating Conditions	Same as camera	
	Cross-sectional area of wires at the terminals	0.14 mm² – 0.5 mm² (AWG 21 – 26)	
	Power Consumption	Typ. 0.5 W, max. 1.5 W	
Dri	Drilling Template		

p25 main board Recommended min. instal-lation depthī 50 mm/1.97 in MX-Bus-IO-Module Cut-out diameter Ø 105 mm/4.13 00000 0000 00000 0000 00 0 0 0 0 30 c 300 25 mm/0.98 in 00 0 0 000 00 0 0 000 000 0 00000 000 0 00000 00 0 000000 000 000 0000 Outside diameter 120 mm/4.72 in

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Output 2

uti B /GNE

Out1 12V