



MX-OPT-AP2 On-Wall Installation Set

MX-OPT-UP1 In-Wall Installation Set

MxIOBoard-IC for signal inputs/outputs

- Mx6 system platform with H.264 support
- Includes MxAnalytics video analysis tools out-of-the-box
- Recording on internal MicroSD card (SDXC, SDHC installed) • Audio package variant (with microphone and speaker) available
- Sensor for temperature and shock detector(\*) integrated

## **Compact Hemispheric Camera** for Indoor Applications

MOBOTIX 6MP camera for unobtrusive indoor applications. available as Day or Night version with MX-B016 (Hemispheric) or MX-B036 (103°) lens.

www.mobotix.com > Products > Indoor Cameras > i26

Item Count Part Name

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32.854-002\_EN\_09/2017

Mx-i26A

More information:

## **MOBOTIX**

# $\ensuremath{^*:}$ with firmware version 5.0.1 and higher

## i26 Standard Delivery



1.2		
1,2	1	Back cover (installed)
1.3	1	Main board with lens MX-B016 or MX-B036 (installed)
1.4	2	Bayonet catch, blue (installed)
1.5	1	USB plug, blue (installed)
1.6	1	Ethernet plug, blue (installed)
1.7	1	Ethernet patch cable, 50 cm/19.7 in, black
1.8	1	Wall sealing
1.9	2	Screw plug, white
1.10	2	Washer Ø 4.3 mm, stainless steel
1.11	2	Wood screw 4x40 mm, stainless steel
1.12	2	Screw anchor S6
1.13	1	MicroSD card pre-installed (SDHC installed, SDXC supported)
1.14	1	Allen wrench 2.5 mm

Standard Delivery i26 In-Wall Installation Set (Accessory)



2.1	1	Mounting plate, stainless steel	
2.2	1	Cavity wall socket	
2.3	2	Allen screw M4x8 mm, stainless steel	
2.4	2	Washer Ø 4.3 mm, stainless steel	

Standard Delivery i26 On-Wall Installation Set (Accessory)



5.2	Z	wood screw 4x70 mm, staintess steet	

Connection and Initial Operation of the i26



Support > Manuals). Please note that the boot options of this camera have changed compared to its predecessor (see "Boot Options of the i26" on page 2) and the

camera only has one key. Regarding the rest of the **initial operation** of the

You can find detailed information on the **installation** and **connections** of the i26 in the O25 Camera Manual (PDF, available on www.mobotix.com >

i26, please see the Q25 Camera Manual in Chapter 3, «Initial Operation». Use a suitable device for operating the camera key (e.g., an opened paper clip).

### 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 > MxMedia Library >

Inserting/Exchanging the SD Card

«Uninstalling the Camera». 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.

Planning in the document MicroSD Card Whitelist for MOBOTIX Cameras. If the camera has already been installed, follow the instructions in section

1. Remove the cables on the back 4. Remove/insert SD card Release the blue bayonet catch, then remove If a microSD card has been installed, gently press

### the patch cable. If a USB cable is attached, remove this cable in the same way.

Lay aside the wall sealing of the camera. 2. Remove the back cover

Insert a suitable device into the hole at the

top of the back cover as shown until you feel resistance. In order to release the back cover, cautiously

press upward as indicated by the blue arrow.

If you are using a flat-head screwdriver, simply

turn the screwdriver.

Gently pull the back cover a bit backward 1 then lift the back cover upward to remove it 2

Release the main board by gently pressing

the snap-fit hook beneath the main board as



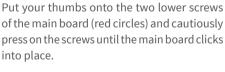
### you hear a *click*. Then release the SD card. The card is protruding slightly and can be easily

5. Insert the main board

removed. Insert the new microSD card and gently press with your finger as indicated by the arrow until you hear the *click*.

with your finger as indicated by the arrow until

Insert the lens into the tunnel of the housing as shown.





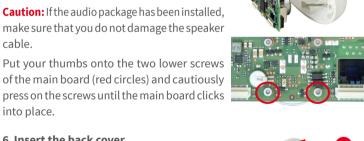
push shut at the top 2 and press until it clicks

# into place.

7. Re-connect the cables Press the wall sealing onto the back of the i26 and make sure that it lies flat all around the rim.

Note that the labels of the sealing are pointing

2. Attach the connection cables





3. Remove the main board

indicated by the red arrow.

Push the main board out of the housing by gently applying pressure onto the lens holder (push upward, since the main board is tilted downward 15 degrees).

Take care that the lens holder does not catch

in the tunnel or the snap-fit hook.

Installing the MxIOBoard-IC

to switch other devices via the signal outputs.

interior from collecting dirt (see red arrow in



For the i26, you can use the optionally available MxIOBoard-IC to attach external sensors using the signal inputs and

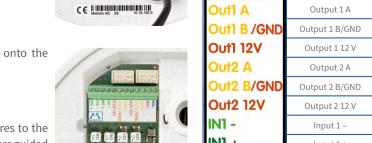
### toward the back of the camera. Insert the Ethernet cable and - if installed - the USB cable into the corresponding sockets and

secure the connectors using the blue bayonet catches.



# 1. Insert the MxIOBoard-IC

On the back of the camera, remove the sticker Attach the connection wires as shown in the terminal connector overview. that protects the receptacle and the camera's **Terminal Connectors** 



MX-

MX+

## Carefully push the module board onto the receptacle.

figure to the right).

cable, for example).

When attaching the connection wires to the MxIOBoard-IC, make sure the wires are guided to the module without tension (you could apply a cable tie and tie the wires to the network



Out-Relay

MxBus functionality is only available with a later hardware release of the camera.

Relay pot.-free

Out2 B/GND	Output 2 B/GND free		Output 2		
Out2 12V	Output 2 12 V	-	12 V		
IN1 -	Input 1 –				
IN1 +	Input 1+		Innerto		
N2 - € 6	Input 2 –		Inputs		
N2 - N2 +	Input 2 +	1			
screws (blue) and the cut-out for the cables out for the cables. Guide the Ethernet cable					

## Use the drilling template on the back for this step. Mark the holes for dowels or (red). If required, drill the holes for the dowels, push them in and cut the cut-o

Installation Without In-Wall Installation Set

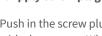
and any other cables that are to be connected through the cut-out.



3. Install the i26

Press the camera and the wall sealing against the wall and align the holes with the holes for the dowels or screws. Insert the screws with washers and tighten them cautiously.





4. Apply screw plugs Push in the screw plugs to close off the holes with the screws. When doing so, make sure

that the notches in the plugs follow the guides.





# 2. Connect the cables

catches.

1. Press wall sealing on i26

Note that the labels of the sealing are pointing toward the back of the camera.

Insert the cables into the appropriate connec-

tors and fasten them using the blue bayonet

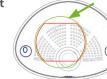




With this type of installation, the mounting plate of the In-Wall Installation Set is screwed onto a cavity wall socket. The i26 itself is screwed onto the mounting plate using Allen screws. There is no drilling for dowels or screws required.

## 1. Cut out the hole for the cavity wall socket

Mark the hole for the cavity wall socket (green circle on drilling template) and cut out the hole.



# 3. Remove the screws

tening switches etc.

Insert the cavity wall socket and tighten the two screws (red arrows) in order to fasten the socket in the wall.

Remove the two screws in the cavity wall socket (red arrows), which are otherwise used for fas-

2. Insert the cavity wall socket



4. Attach the mounting plate

Use the two screws you just removed to fasten

the mounting plate onto the cavity wall socket.



## 5. Press wall sealing on i26

Press the wall sealing onto the back of the i26 and make sure that it lies flat all around the rim. Note that the labels of the sealing are pointing toward the back of the camera.



### 6. Connect the cables

Guide the cables of the camera from behind through the cavity wall socket. Insert the Ethernet cable and – if installed – the USB cable into the corresponding sockets. Secure the connectors using the blue bayonet catches.



# 7. Install the i26

Push the remaining cable into the cavity wall socket, then press the camera and the wall sealing onto the mounting plate. Use the two Allen screws with the washers to fasten the i26 onto the mounting plate (0.4 Nm).



## 8. Apply screw plugs Push in the screw plugs to close off the holes

with the screws. When doing so, make sure that the notches in the plugs follow the guides.



# Initial Operation of the i26

The initial operation starts with connecting the power supply (see section «Network and Power Connection, Additional Cables» in the Q25 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.

out1 B /GND

2 B/GND

**Out1 12V** 

**Out2 12V** 

INT +

Output 1

Output 2



## The camera will automatically detect an installed

1. Configuring and Using the MxIOBoard-IC

MxIOBoard-IC (see Camera Status, System section in browser). The signal inputs can be used right away in the

signal input profiles in the Setup Menu > Event Overview. Likewise, the signal outputs can be used in the signal output profiles in Admin Menu > Hardware Configuration > Signal Out Profiles.



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. 2. Save the configuration

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

## In the live image of the browser, select the Manage Settings quick con-

trol and set Store Entire Configuration as value. The camera stores the configuration in the permanent camera memory so that the settings will be applied at the next camera reboot.

## Boot Options of the i26

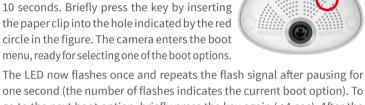
an IP address from a DHCP server. To start the camera in a mode different from the default mode, you can activate the boot menu of the camera. 1. Prepare the Camera

By default, the camera starts as DHCP client and automatically tries to get

- Disconnect the camera's power supply. • Make sure that you have suitable item such as a paper clip at hand,
- but never use sharp or pointed objects! • Reconnect the power supply of the camera.

## 2. Activate the Boot Menu

The red LED lights up 5 to 10 seconds after establishing the power supply and will stay on for 10 seconds. Briefly press the key by inserting the paper clip into the hole indicated by the red circle in the figure. The camera enters the boot menu, ready for selecting one of the boot options. The LED now flashes once and repeats the flash signal after pausing for



go to the next boot option, briefly press the key again (< 1 sec). After the last boot option, the camera returns to the first option (LED flashes once).

1 x	Auto Config- uration	Starts the auto configuration in order to operate this camera as a door station (not supported on all camera models).	Phone ringing
2 x	Factory Defaults	Starts the camera with factory defaults (factory default IP address, users and passwords will not be reset).	Boing
3 x	Automatic IP Address	Starts the camera as DHCP client and tries to obtain an IP address from a DHCP server. If a DHCP server cannot be found or no IP address can be obtained, the camera starts with its factory default address.	Boing Boing
4 x	Recovery System	Starts the camera with the recovery system, e.g., in order to recover from a failed update of the camera software.	Alarm Sound
*Only on ca	meras with aud	io option and installed speaker.	

Meaning

### Press the paper clip longer (> 2 sec) into the hole. The camera confirms the selection by flashing rapidly three times. You can now remove the paper

clip. After 20 sec, the camera will confirm the selection by playing a sound according to the table above. If nothing is selected, the camera will resume its normal boot process after a certain time.

## **Important Notes**

## **Safety Warnings**

of persons.

**Model Variants** 

**Lens Options** 

**Image Sensor** 

Sensitivity

the body to attach wires).

### **Notes on Installing:** · This product must not be used in locations exposed to the dangers of explosion.

- Make sure that you install this product as outlined in the instructions of this Quick Install document. A faulty installation can damage the camera!
- When installing this product, make sure that you are only using genuine MOBOTIX parts and MOBOTIX connection

Only install this product on suitable, solid materials that

provide for a sturdy installation of the fixing elements used. **Electrical installation:** 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 electrical guide-

lines. Make sure to properly set up all electrical connections.

Electrical surges: MOBOTIX cameras are protected against the effects of small electrical surges by numerous measures. These measures, however, cannot prevent the camera from being damaged when stronger electrical surges occur. Special care should be taken when installing the camera outside of

buildings to ensure proper protection against lightning, since

this also protects the building and the whole network infra-**Never touch the lens:** Due to the high performance of the i26, 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. For this reason, the product must not be installed within the reach

**Power off before opening the camera:** Make sure the power

supply to the camera is disconnected before opening the camera

housing (e.g., when exchanging the SD card or when opening

**Technical Specifications i26** Mx-i26A-6D016/036 (daylight image sensor, color

Black&White)

Mx-i26A-6N016/036 (night image sensor, Black&White)

Color sensor (daylight): 0.1 lx @ 1/60s; 0.005 lx @ 1s

1/1.8" CMOS, 6MP (3072x2048), Progressive Scan

Black&White sensor (night): 0.02 lx @ 1/60s; 0.001 lx @ 1s

B016 (180° horizontal image angle)

• B036 (103° horizontal image angle)

(Full-HD), 1280x960 (MEGA)

Mx-i26A-AU-6N016/036 (audio package, night image sensor,

Mx-i26A-**AU**-6D016/036 (audio package, daylight image sensor, color)



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. **Legal Notes** Legal aspects of video and sound recording: You must comply

Network security: MOBOTIX products include all of the nec-

essary configuration options for operation in Ethernet net-

works in compliance with data protection laws. The operator



### with all data protection regulations for video and sound monitoring when using MOBOTIX products. Depending on national laws and the installation location of the i26, 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 applicable regulations and to comply with these laws. MOBOTIX AG is not liable for any illegal use of its products. Disposal Electrical and electronic products contain many valuable materials. For this reason, we recommend that you dispose



### of MOBOTIX products at the end of their service life in accordance with all legal requirements and regulations (or deposit these products at a municipal collection center). MOBOTIX

bottom of every page.

Audio

(only Mx-i26A-AU with

audio package)

Interfaces

product contains a battery, please dispose of the battery separately (the corresponding product manuals contain specific directions if the product contains a battery). Disclaimer MOBOTIX AG does not assume any responsibility for damages, which are the result of improper use or failure to comply to the manuals or the applicable rules and regulations. Our General Terms and Conditions apply. You can download the current version of the General Terms and Conditions from our web-

site at www.mobotix.com by clicking on the COS link at the

products must not be disposed of in household waste! If the





**Image Processing** MxLEO, backlight compensation, automatic white balance, distortion correction PTZ Digital pan/tilt/zoom, continuous up to 8X Alarm/Events Temperature sensor, shock detector (with firmware version 5.0.1 and higher), microphone (Mx-i26A-AU only), additional sensors/IOs ria MxMessageSystem, notification via e-mail, FTP, IP telephony (VoIP, SIP) MxActivitySensor, video motion analysis, MxAnalytics **Intelligent Video Analysis** 

• Microphone/speaker, both 16bit/16kHz (HD wideband audio)

VoIP/SIP telephony, intercom, remote controlling using key codes

User/group management, HTTPS/SSL, IP address filter, IEEE 802.1x,

· Lip-synchronous audio, audio recording

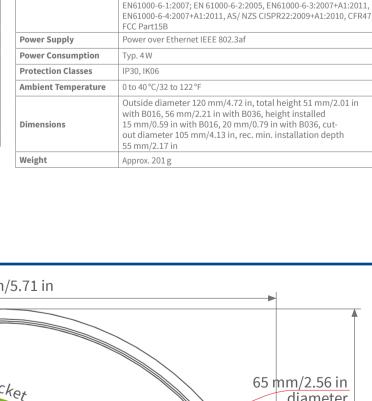
Ethernet 100BaseT (MxRJ45), MiniUSB (MxMiniUSB)

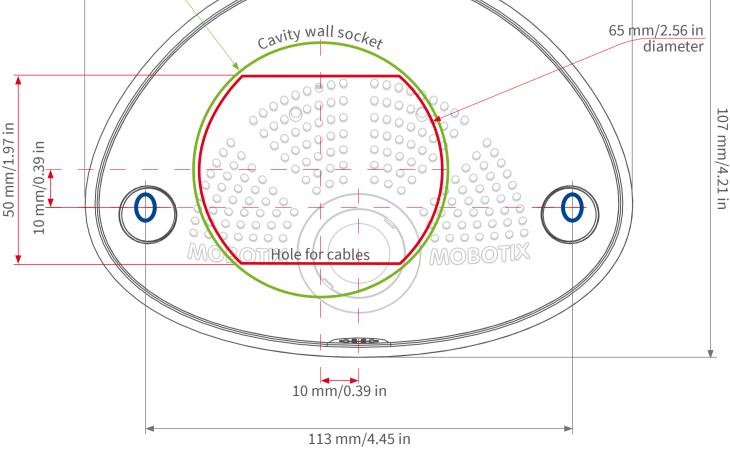
intrusion detection, digital image signature, MxFFS



### Max. Image Size 6MP (3072x2048) **Image Formats** Freely configurable 4:3, 8:3, 16:9 or custom formats (image ing), e.g., 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080

Max. Frame Rate	<ul> <li>MxPEG: 42@HD(1280x720), 34@Full-HD, 24@QXGA, 15@5Mp, 12@6MP</li> <li>M-JPEG: 26@HD(1280x720), 13@Full-HD, 9@QXGA, 5@5Mp, 4@6MP</li> <li>H.264: 25@Full-HD, 20@QXGA</li> </ul>
Video Codec	MxPEG, M-JPEG, JPEG (max. output size 6MP)     H.264 (max. output size QXGA, bandwidth limitation applicable)
DVR	In the camera on MicroSD card (SDXC, SDHC pre-installed) External, on USB device External, on NAS Separate live image and full image recording – MxFFS with archiving function Pre- and post-alarm images Automatic DVR monitoring with error notification
Software	MxManagementCenter
Dimensions/Dri	lling Template
l-	145 mm
68 mm/ 2.68 in dia.	





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Declaration of Conformity: www.mobotix.com > Support > MxMedia Library > Certificates