

# Quick Installation

## MOBOTIX 2MP Vandal Bullet ALPR Camera Mx-VB1A-2-IR(-D)-ALPR

© 2023 MOBOTIX AG

### NOTE!

This guide is only valid for **installing and connecting** the 2MP Vandal Bullet ALPR Camera. For more information on the camera, please refer to the other documents (see [Further Reading, p. 8](#)).

### Important Installation Notes

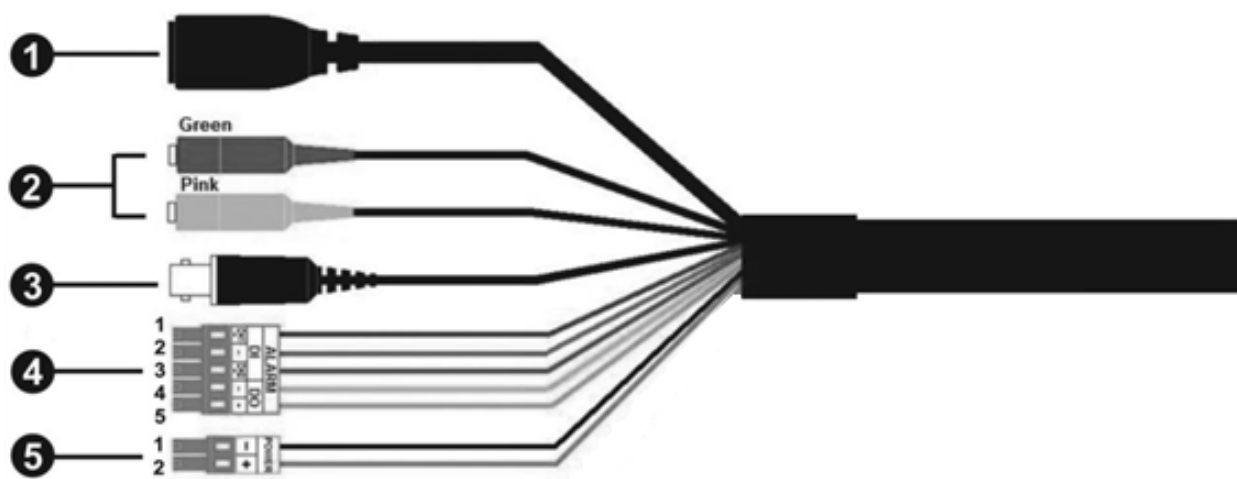
- This camera must be installed by qualified personnel and the installation should conform to all local codes.
- This product must not be used in locations exposed to the dangers of explosion.
- Do not look directly into the infra-red LEDs that may be active on the product.
- Do not use this product in a dusty environment.
- Protect this product from moisture or water entering the housing.
- Install this product as outlined in this document. A faulty installation can damage the product!
- Do not replace batteries of the camera. Risk of explosion may occur if the battery is replaced by an incorrect type.
- This equipment is not suitable for use in locations where children are likely to be present.
- External power supplies must comply with the Limited Power Source (LPS) requirements and share the same power specifications with the camera.
- When using a Class I adapter, the power cord shall be connected to a socket-outlet with proper ground connection.
- To comply with the requirements of EN 50130-4 regarding the power supply of alarm systems for 24/7 operation, it is highly recommended to use an uninterruptible power supply (UPS) for backing up the power supply of this product.
- This equipment is to be connected only to PoE networks without routing to other networks.

**NOTE!** Observe the [MOBOTIX MOVE Installation Hints](#) document to ensure optimum performance of the camera features.

**CAUTION!** To prevent damage when adjusting the camera's field of view, loosen all corresponding screws. Once finished, tighten these screws again.

**NOTE!** To ensure that the unit is not affected by vibration, twisting, etc. after adjusting the camera, properly tighten all mounting screws.

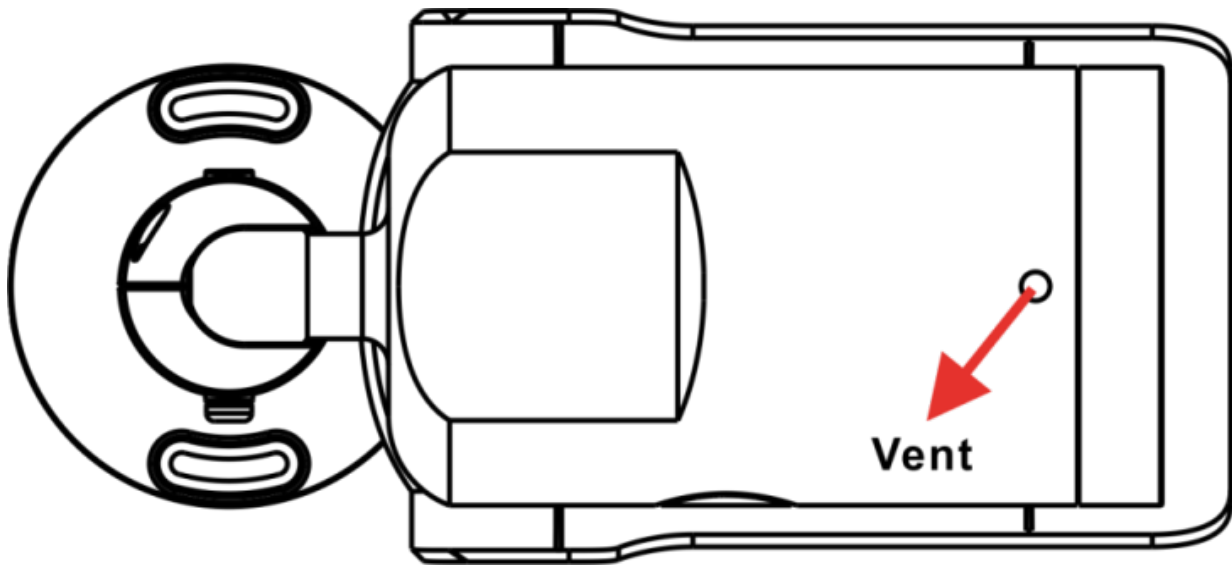
### All-in-One Cable



No	Cable	Pin	Definition	Remarks
1	RJ-45	–	For network and PoE connections	
2	Audio I/O	Green	Audio Out / Mic Out (Line Out)	Two-way audio transmission
		Pink	Audio In / Mic In (Line In)	
3	BNC	–	For analog video output	
4	Alarm I/O (5-pin Terminal Block)	1	Alarm In 2+	Alarm connection
		2	Alarm In -	Do <b>NOT</b> connect external power supply to the alarm I/O connector of the IP camera!
		3	Alarm In 1+	
		4	Alarm Out -	
		5	Alarm Out +	
5	Power (DC 12V / AC 24V) (2-pin Terminal Block)	1	DC 12V –	Power connection
		2	DC 12V +	

### Desiccants Removal

Before installation, remove the desiccants package that covers the vent at the bottom of the camera body. The location of the desiccants package is shown below.



**CAUTION!** Removing the desiccants package will activate the venting system and humidity can enter the camera housing if the camera is not powered up immediately after installing!

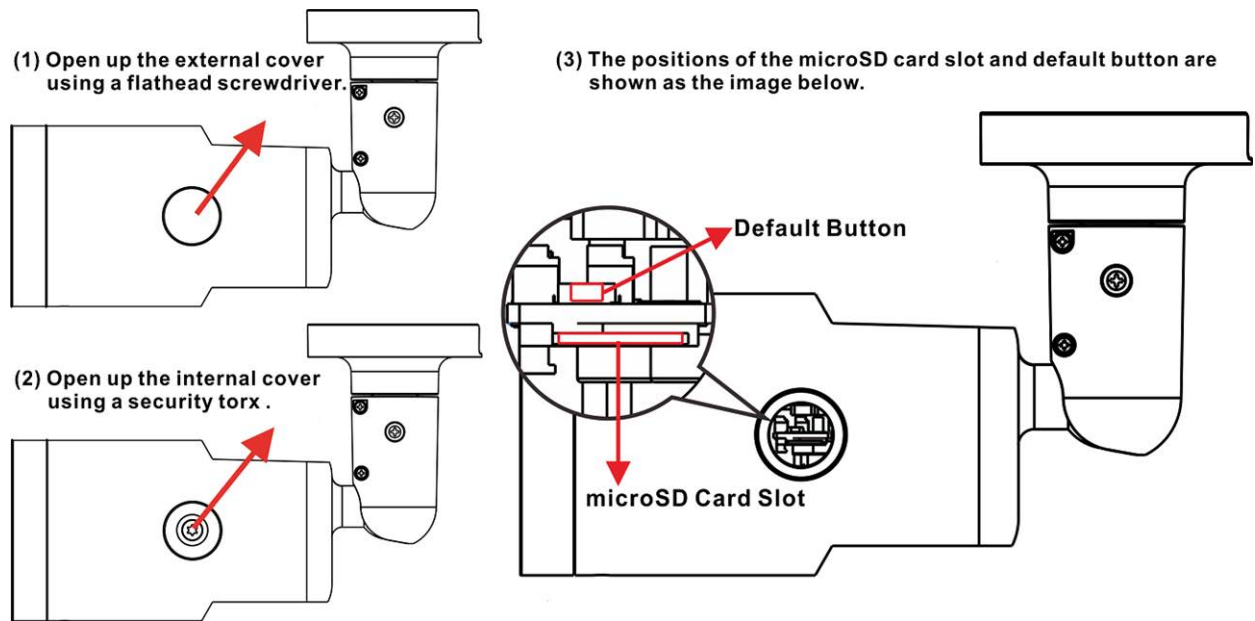
#### NOTE!

- When installing the camera at low temperatures and/or high humidity, it is highly recommended to remove the desiccants package only right before powering up the camera. This will prevent condensation of moisture behind the front glass.
- If condensed moisture has accumulated behind the front glass, the moisture will vanish after some hours of operation; activating the integrated IR lights will speed up the process.

### microSD Card Slot/Default Button

**CAUTION!** Always power down the camera before performing the following steps!

The positions of microSD card slot and default button are shown as below.



### microSD Card Slot

Insert the microSD card into the card slot to store videos and snapshots.

#### NOTE!

- It is not recommended to record with the microSD card for 24/7 continuously, as it may not be able to support long term continuous data read/write. Contact the manufacturer of the microSD card for information regarding the reliability and the life expectancy.
- Remember to format a new microSD card as shown in [Formatting the SD Card](#) below.

### Default Button

Press the default button with a proper tool for at least 20 seconds to restore the system.

## Connecting Power

### Using Power over Ethernet (PoE)

Use a PoE switch (Class 0) and connect the Ethernet cable to the RJ-45 port of the camera.

### Using AC24V or DC12V

To power up the camera, connect **either the DC12V or the AC24V** power adapter to the power connector of the camera and the power outlet.

**CAUTION!** Never connect both DC12V power and AC24V power since this **will cause unforeseeable damage**.

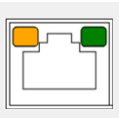
## Ethernet Cable Connection

Connect one end of the Ethernet cable to the RJ-45 connector of the camera and plug the other end of the cable into the network switch or PC.

### NOTE!

- The length of the Ethernet cable should not exceed 100 m/300 ft.
- Check the status of the link indicator and the activity indicator LEDs of the switch. If the LEDs are unlit, please check the LAN connection.
- In some cases, an Ethernet crossover cable may be needed when connecting the camera directly to the PC.

## Ethernet Connector LEDs



- Green **Link** LED indicates good network connection.
- Orange **Activity** LED flashes for network activity indication.

**NOTE!** The ITE is to be connected only to PoE networks without routing to the outside plant or equivalent description.

## Accessing the Camera

The 2MP Vandal Bullet ALPR Camera supports all current browsers without requiring any additional plug-ins or add-ons (e.g. for H.264/H.265/MJPEG support).

### Camera Login

The default IP address of the camera is: 10.x.x.x. By default, the camera starts as DHCP client and automatically tries to get an IP address from a DHCP server.

1. Enter the camera's IP address in the URL bar of the web browser and hit "Enter".
2. Enter the default username (**admin**) and password (**meinsm**).

**NOTE!** User names and passwords are case sensitive.

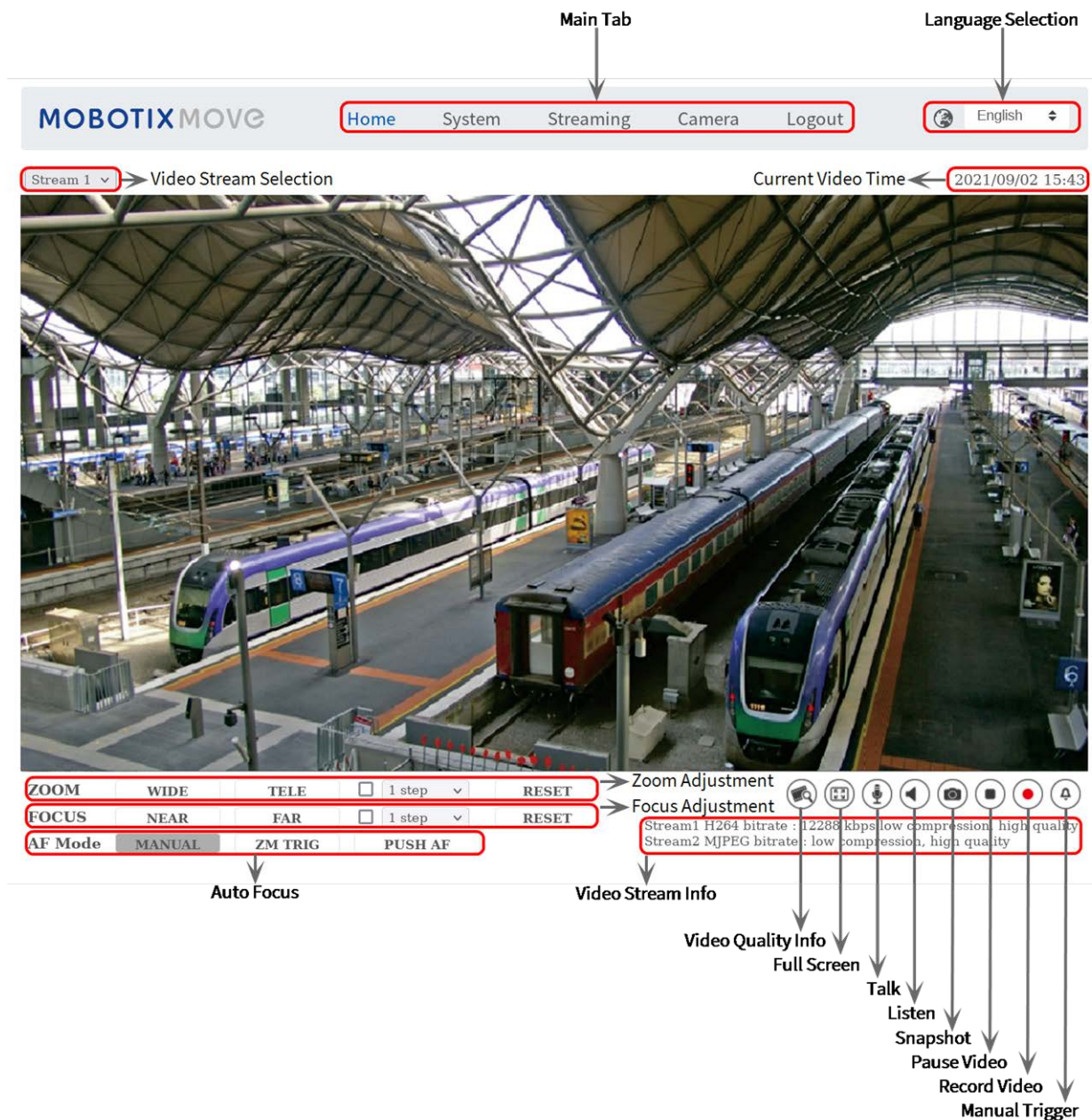
3. You will be prompted to set a new admin user password.

**NOTE!** The password can have between 6 and 16 characters (at least one digit, no special characters allowed).

4. After setting a new password, you will be prompted to log in again. Remember to use the new password.

### Browser-Based Viewer

The main page of the IP camera user interface is shown as the figure below. The function buttons vary depending on the camera model.



### Formatting the SD Card

After inserting a new or replacing a used SD card, the card must be formatted before the camera can use it to record video streams.

1. Connect to the camera.
2. Open **System > Storage Management > SD Card**.
3. In the **Device Setting** section, click on **Format** to start the formatting process.

Once formatting has finished, the camera can use the SD card for recording.

**NOTE!** New MOBOTIX ALPR cameras include a pre-installed and pre-formatted SD card!

### Camera Maintenance

It is recommended that you perform the following maintenance tasks at regular intervals to keep the 2MP Vandal Bullet ALPR Camera in good working condition:

- Clean the front glass using plain water and a soft cloth.

**CAUTION!** Do not use any detergents or alcohol to prevent damaging the coating!

- Check the mounting and make sure that all screws are properly tightened to prevent the camera from falling down.
- When opening the camera, add a silica gel dry pack to prevent condensation accumulating at the front glass.

## Further Reading

Manuals and Quick Installation documents



Technical Specifications



MOBOTIX MOVE Installation Hints





