Quick Installation

MOBOTIX 2MP Vandal Bullet Analytics Camera
Mx-VB3A-2-IR-VA

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NOTE!
This guide is only valid for **installing and connecting** the 2MP Vandal Bullet Analytics Camera. For more information on the camera, please refer to the other documents (see).

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.
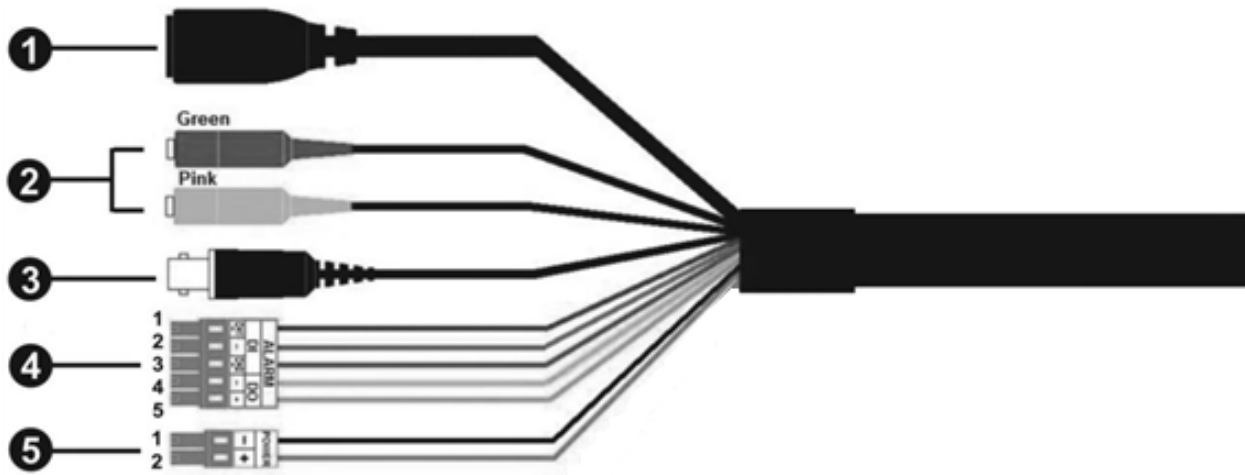
NOTE! Observe the MOBOTIX MOVE Installation Hints document to ensure optimum performance of the camera features.

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.
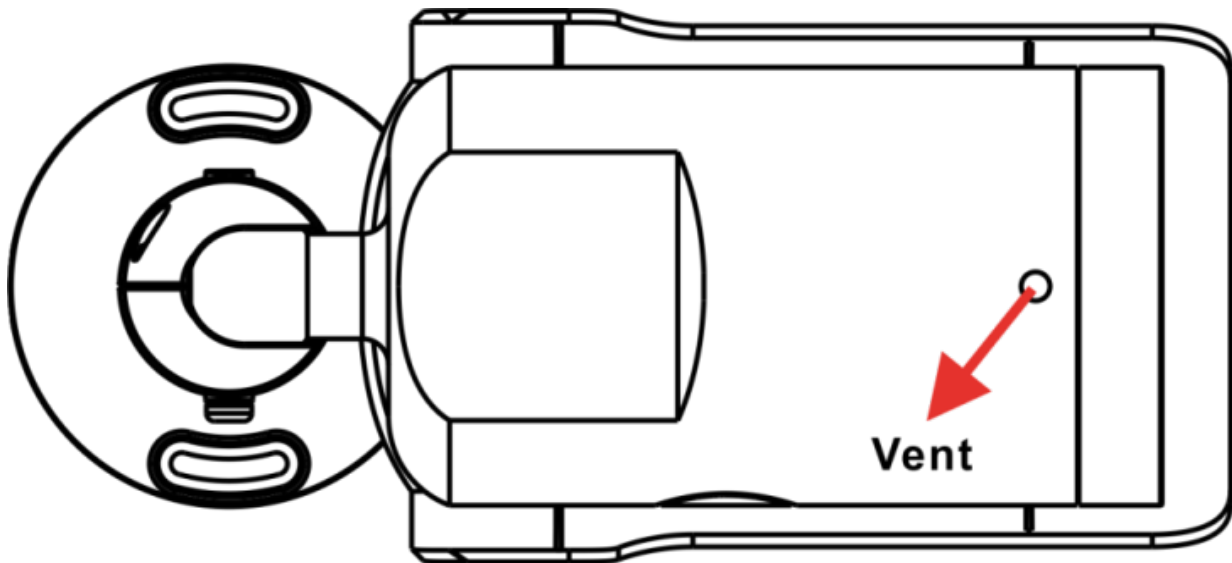
All-in-One Cable

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 **NOT** 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 −	AC 24V 1	Power connection
		2	DC 12V +	AC 24V 2	

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.

Vent

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!
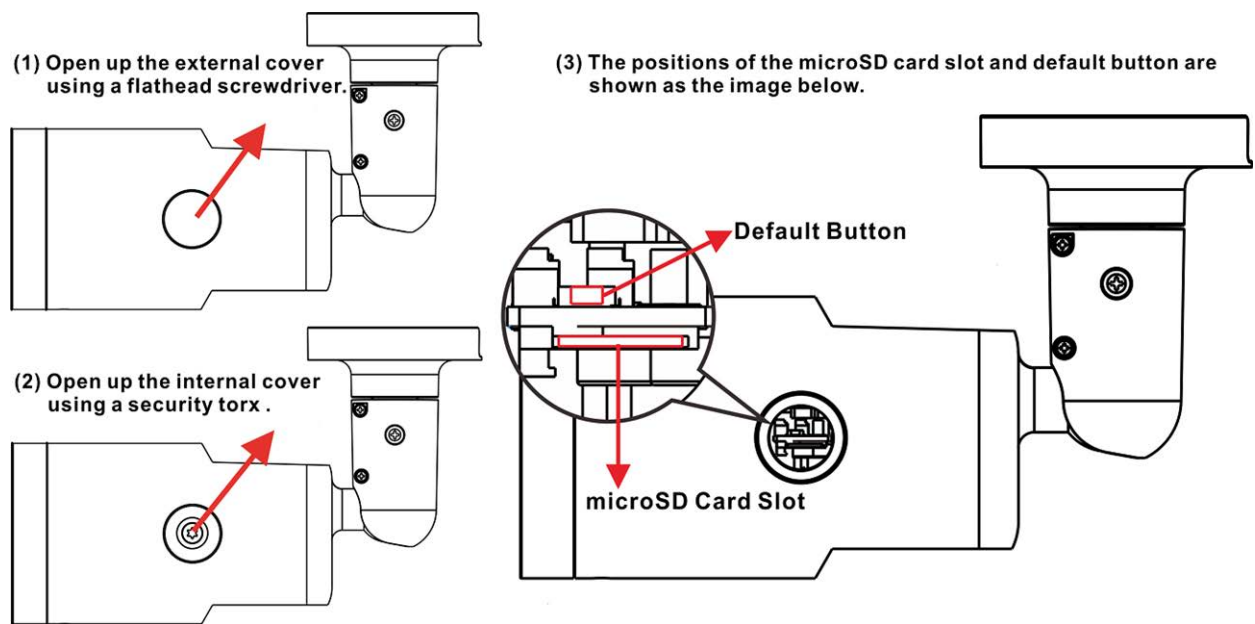
NOTE!
- When installing the camera at low temperatures and/or high humidity, it is highly recommended to remove the desiccants package only right before powering up the camera. This will prevent condensation of moisture behind the front glass.
- If condensed moisture has accumulated behind the front 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**.
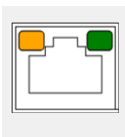
Ethernet Cable Connection

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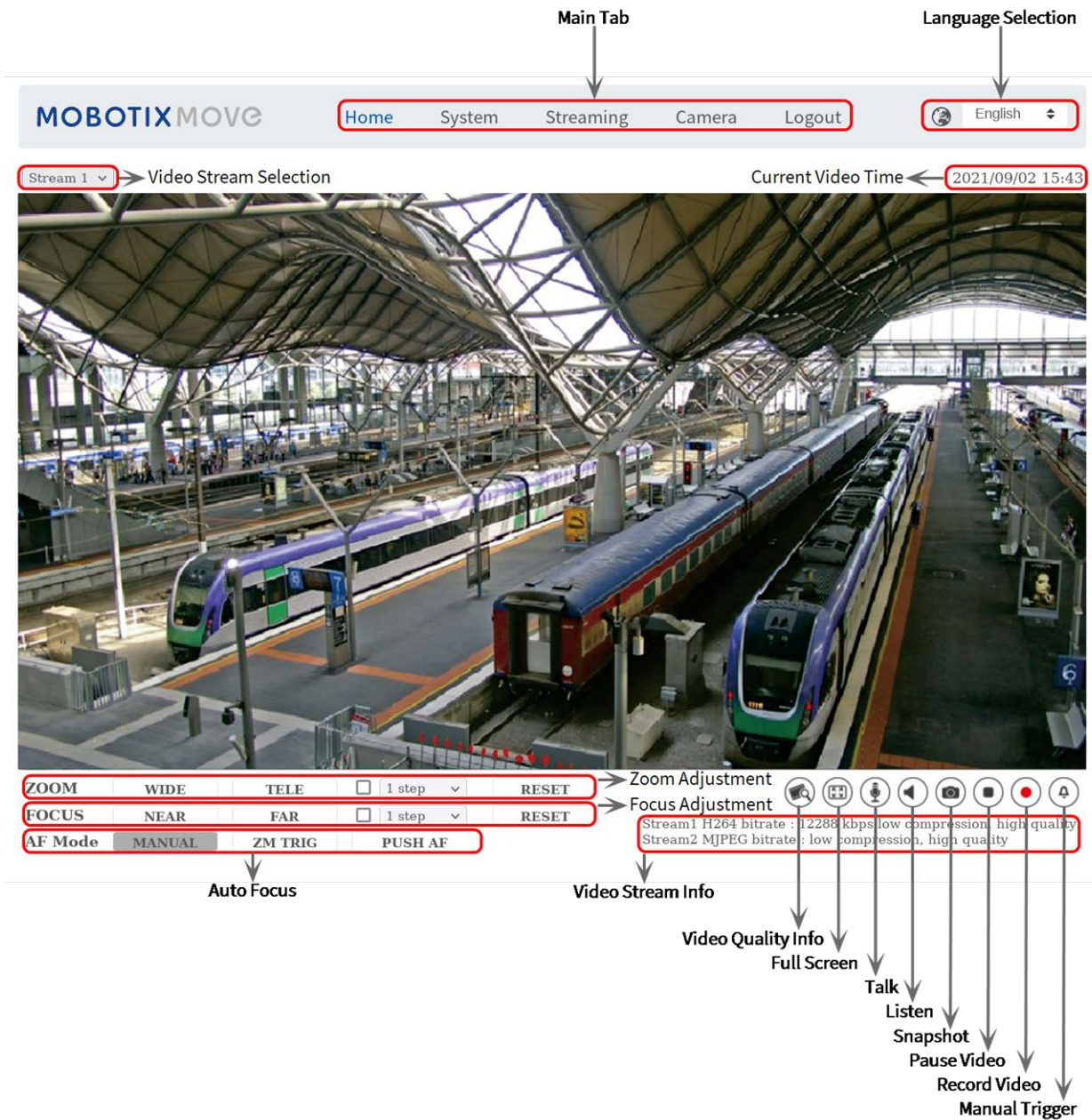
3. You will be prompted to set a new admin user password.

   > **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.

Camera Maintenance

It is recommended that you perform the following maintenance tasks at regular intervals to keep the 2MP Vandal Bullet Analytics 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 silca gel dry pack to prevent condensation accumulating at the front glass.

Further Reading

Manuals and Quick Installation documents	
Technical Specifications	
MOBOTIX MOVE Installation Hints	

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