

Quick Installation

MOBOTIX 5MP Vandal Bullet Analytics Camera

Mx-VB2A-5-IR-VA

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NOTE!

This guide is only valid for **installing and connecting** the 5MP Vandal Bullet Analytics 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.
- To prevent damage when adjusting the camera's field of view, loosen the corresponding screws. Once done, tighten the screws again.
- To ensure that the unit is not affected by vibration, twisting, etc., properly tighten all mounting screws.
- 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.

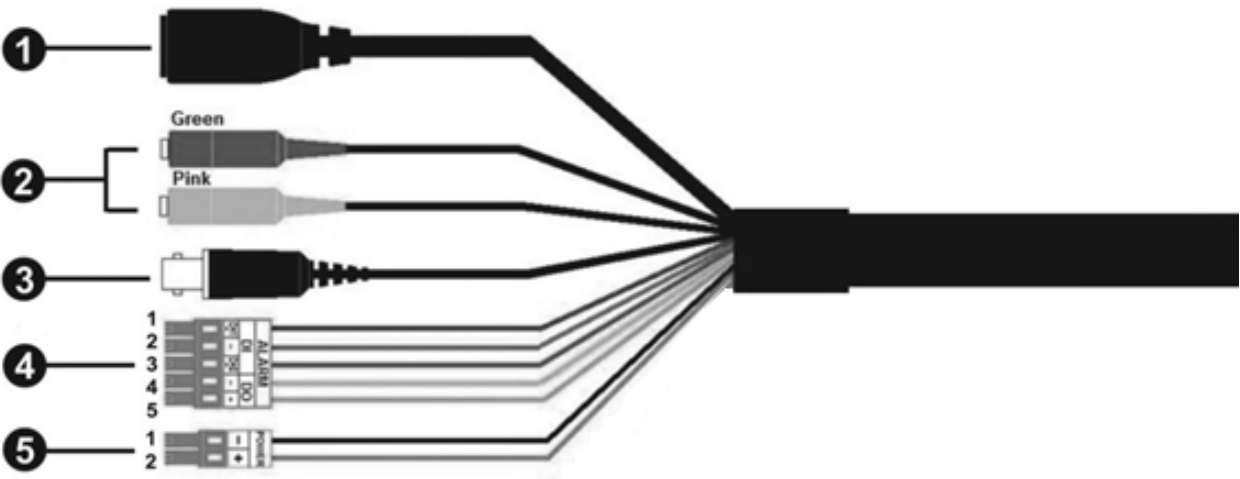
- This equipment is to be connected only to PoE networks without routing to other networks.

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

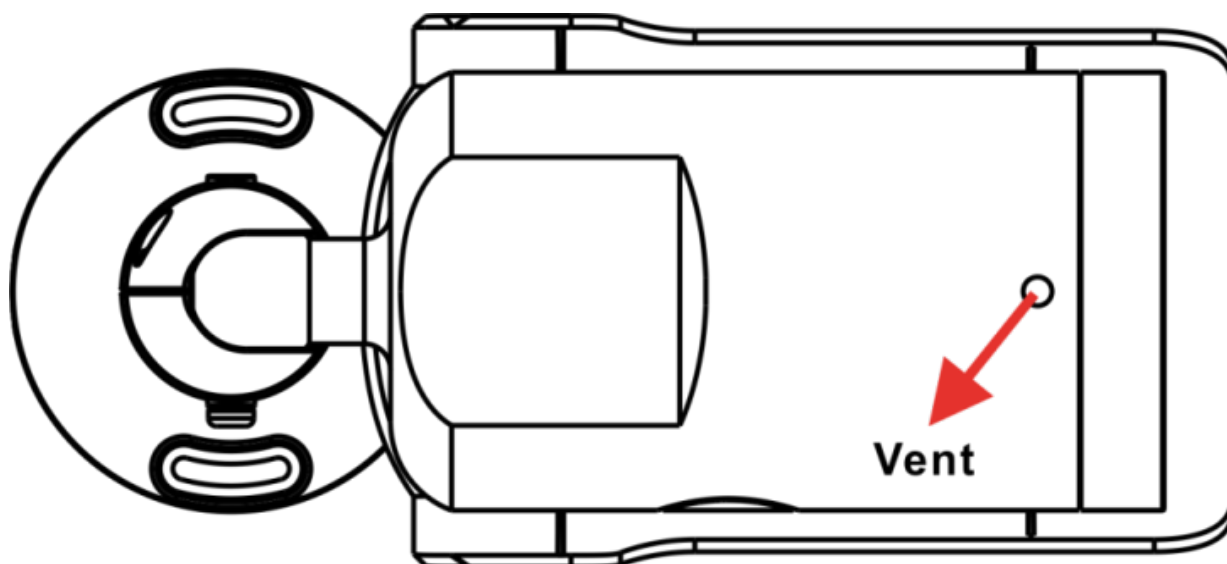


No	Cable	Pin	Definition	Remarks
1	RJ-45	–	For network and PoE connections	
2	Audio I/O	Green	Audio Out / Mic Out (Line Out)	Two-way audio trans- mission
		Pink	Audio In / Mic In (Line In)	
3	BNC	–	For analog video output	

No	Cable	Pin	Definition	Remarks
4	Alarm I/O (5-pin Terminal Block)	1	Alarm In 2+	Alarm connection Do NOT connect external power supply to the alarm I/O connector of the IP camera!
		2	Alarm In -	
		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

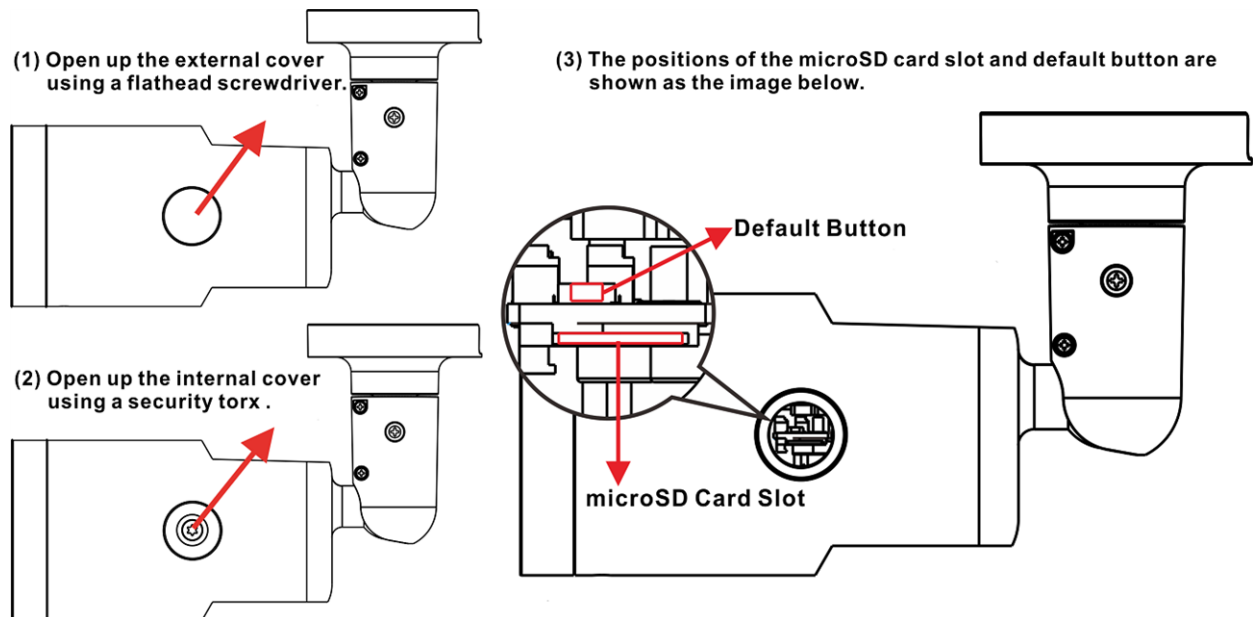
Desiccants Removal

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



microSD Card Slot/Default Button

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. Do not remove the microSD card when the camera is powered on.

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.

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)

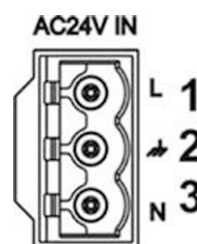
Use a PoE switch (Class 0) and connect the Ethernet cable to the RJ-45 port of the camera.

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.

Diagram and Pin Definition for AC24V Power Connection

Pin	Definition
1	AC24V L
2	GND
3	AC24V N



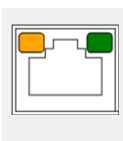
Ethernet Cable Connection

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 5MP 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.

Quick Installation 5MP Vandal Bullet Analytics Camera

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.

The screenshot displays the MOBOTIX MOVE web interface. At the top, a navigation bar includes the logo and tabs for Home, System, Streaming, Camera, and Logout. A language selection dropdown is set to English. Below the navigation bar, a 'Stream 1' dropdown menu is labeled 'Video Stream Selection', and a timestamp '2021/09/02 15:43' is labeled 'Current Video Time'. The main area shows a live video feed of a train station. Below the video feed, there are two rows of control buttons. The first row includes 'ZOOM', 'WIDE', 'TELE', a '1 step' dropdown, and 'RESET'. The second row includes 'FOCUS', 'NEAR', 'FAR', a '1 step' dropdown, and 'RESET'. Below these are 'AF Mode' buttons: 'MANUAL', 'ZM TRIG', and 'PUSH AF'. To the right of the video feed, there is a 'Video Stream Info' section showing 'Stream1 H264 bitrate: 12288 kbps | low compression, high quality' and 'Stream2 MJPEG bitrate: low compression, high quality'. A row of icons for various functions is located below the video stream info, with arrows pointing to labels: 'Zoom Adjustment', 'Focus Adjustment', 'Video Quality Info', 'Full Screen', 'Talk', 'Listen', 'Snapshot', 'Pause Video', 'Record Video', and 'Manual Trigger'.

Annotations in the image include:

- Main Tab** pointing to the navigation bar.
- Language Selection** pointing to the language dropdown.
- Stream 1** pointing to the video stream selection dropdown.
- Current Video Time** pointing to the timestamp.
- Zoom Adjustment** pointing to the ZOOM, WIDE, TELE buttons.
- Focus Adjustment** pointing to the FOCUS, NEAR, FAR buttons.
- Auto Focus** pointing to the AF Mode buttons.
- Video Stream Info** pointing to the video stream information text.
- Video Quality Info** pointing to the video quality information text.
- Full Screen** pointing to the full screen icon.
- Talk** pointing to the talk icon.
- Listen** pointing to the listen icon.
- Snapshot** pointing to the snapshot icon.
- Pause Video** pointing to the pause video icon.
- Record Video** pointing to the record video icon.
- Manual Trigger** pointing to the manual trigger icon.

Camera Maintenance

It is recommended that you perform the following maintenance tasks at regular intervals to keep the 5MP 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 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





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