Quick Installation

MOBOTIX 2MP Speed Dome Low Light Camera

Mx-SD1A-230-LL

NOTE!
This guide is only valid for **installing and connecting** the 2MP Speed Dome Low Light 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, loosen the mounting screws before moving the camera.
- To ensure that the unit is not affected by vibration, twisting, etc. after adjusting the camera, tighten all mounting screws properly.
- This product must not be used in locations exposed to the dangers of explosion.
- Install this product in a well-ventilated spot and do not close off any vent openings.
- 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 LPS requirements and share the same power specifications with the camera.
- If 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

powering the product.

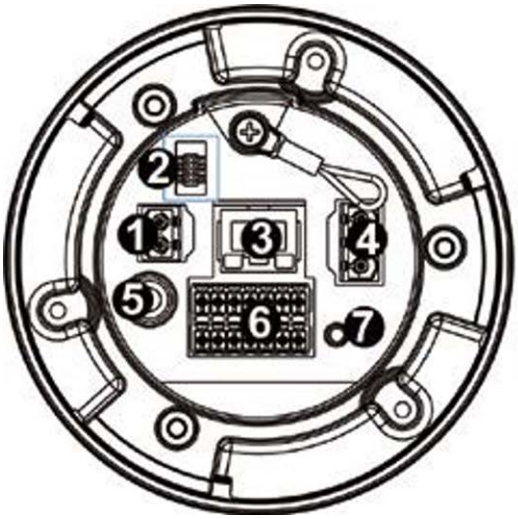
- This equipment is to be connected only to PoE networks without routing to other networks.

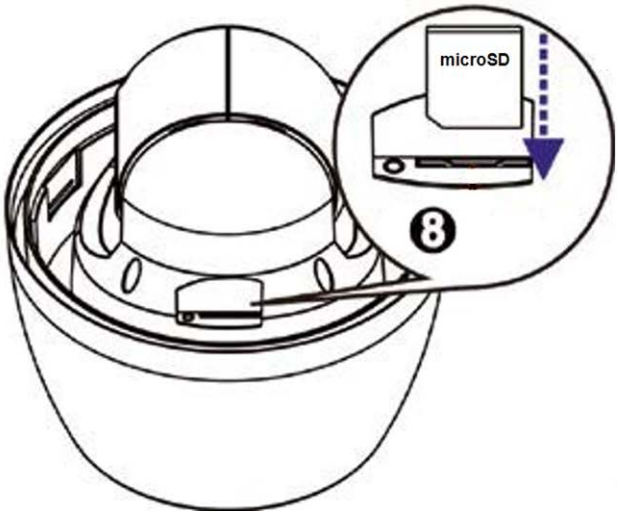
NOTE! Observe the MOBOTIX MOVE Installation Hints document to ensure optimum performance of the camera features.

CAUTION! To prevent damage, loosen all mounting screws before adjusting the camera.

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

Camera Connectors





No.	Connector	Definition
1	Power Connector (DC12V)	DC12V power connection
2	Console Connector	This connector is used to burn firmware into the camera when the camera is returned for repair/maintenance. Please contact the camera manufacturer for further information.
3	RJ-45 Port	For network and PoE+ connections
4	Power Connector (AC24V)	AC24V power connection (see Power Connector, p. 3 below)
5	BNC*	For analog video output (available only with max. 2 activated streams)
6	Audio/Alarm I/O & RS485 Connector**	Audio/Alarm I/O & RS485 connection (see Audio/Alarm I/O & RS485 Connector, p. 4 below)

No.	Connector	Definition
7	Reset Button	Press the button with a proper tool for at least 20 seconds to restore the system.
8	SD Card Slot	Insert the SD card into the card slot to store videos and snapshots. Do not remove the SD card when the camera is powered on.

*Contact the manufacturer for a compatible BNC cable.
**Do NOT connect external power supply to the alarm I/O connector of the camera.

NOTE!

- To purchase a power adapter, please contact MOBOTIX for further information.
- The DC12V power jack and the AC24V power connector cannot be used at the same time without causing unforeseeable damage.

microSD Card Slot/Reset Button

The positions of microSD card slot and default button are shown in the figure above.

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.

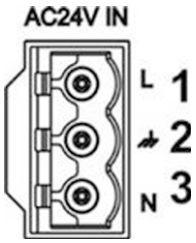
NOTE! It is not recommended to record with the microSD card for 24/7 continuously, as it may not be able to support long-term continuous data read/write. Contact the manufacturer of the microSD card for information regarding the reliability and the life expectancy.

Reset Button

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

Power Connector

Pin	Definition
1	AC24V L
2	GND
3	AC24V N



Camera Cabling

Power Connection

To power up the camera, connect the DC12V or AC24V power adaptor to the power connector of the camera and the power outlet. Refer to the diagram and pin definition below for AC24V power connection.

Alternatively, you can use an Ethernet cable and connect it to the RJ-45 port of the camera and a PoE+ switch (Class 4).

Zero Downtime Power Switching (ZDT)

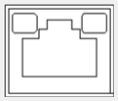
When users connect DC12V power jack and the RJ-45 port at the same time, the power input comes from the DC12V connector. If the DC12V power source fails, the camera will switch power input seamlessly to the RJ-45 port until the DC12V power source is restored.

Ethernet Cable Connection

Connect one end of the Ethernet cable to the RJ-45 connector of the All-in-One cable, and plug the other end of the cable to the network switch or PC.

NOTE!

- In some cases, an Ethernet crossover cable may be needed when connecting the camera directly to the PC.
- 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.



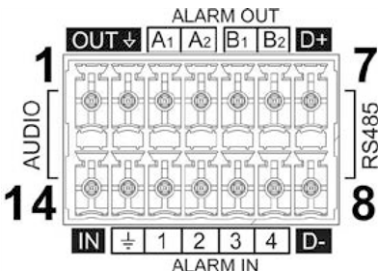
- Green Link LED indicates good network connection.
- Orange Activity LED flashes for network activity indication.

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

Audio/Alarm I/O & RS485 Connector

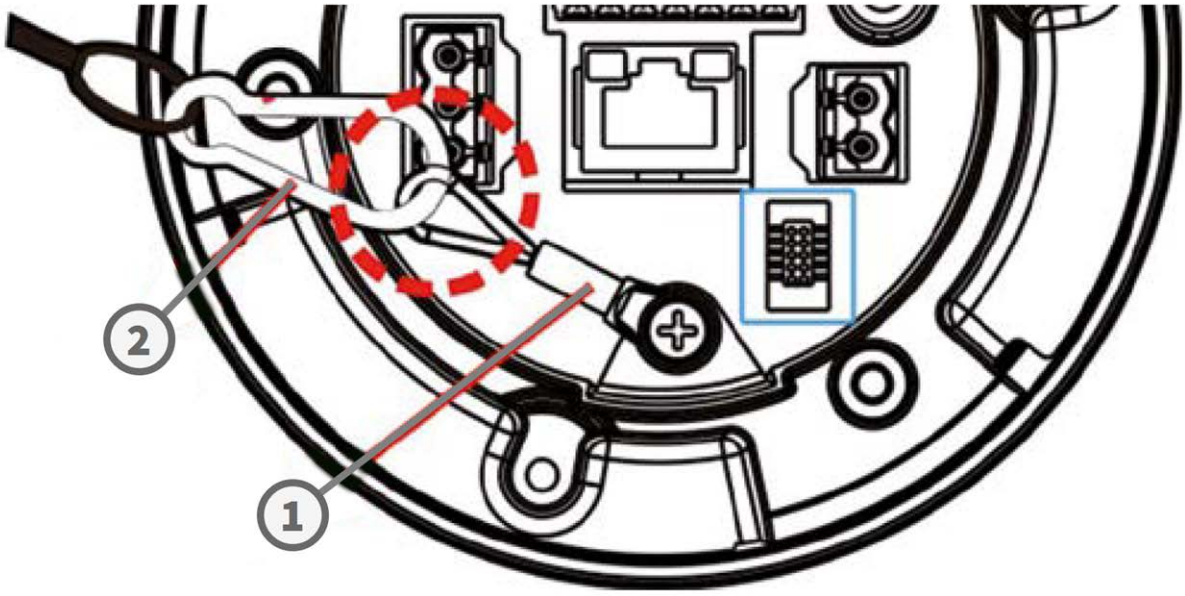
Please refer to the diagram and pin definition tables below for using the audio/alarm I/O & RS485 connection.

Pin	Definition
1	Audio Out
2	GND (Audio I/O)
3	Alarm Out A1
4	Alarm Out A2
5	Alarm Out B1
6	Alarm Out B2
7	RS485 D+
8	RS485 D-



Pin	Definition
9	Alarm In 4
10	Alarm In 3
11	Alarm In 2
12	Alarm In 1
13	GND (Alarm I/O and RS485)
14	Audio In

Camera Installation Notice



NOTE! For safety reasons, it is recommended to hook up the camera's anti-drop ring ① with the anti-drop chain ② of the pendant when installing the camera. For more information about the pendant and anti-drop chain, please contact MOBOTIX.

Accessing the Camera

The 2MP Speed Dome Low Light 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.

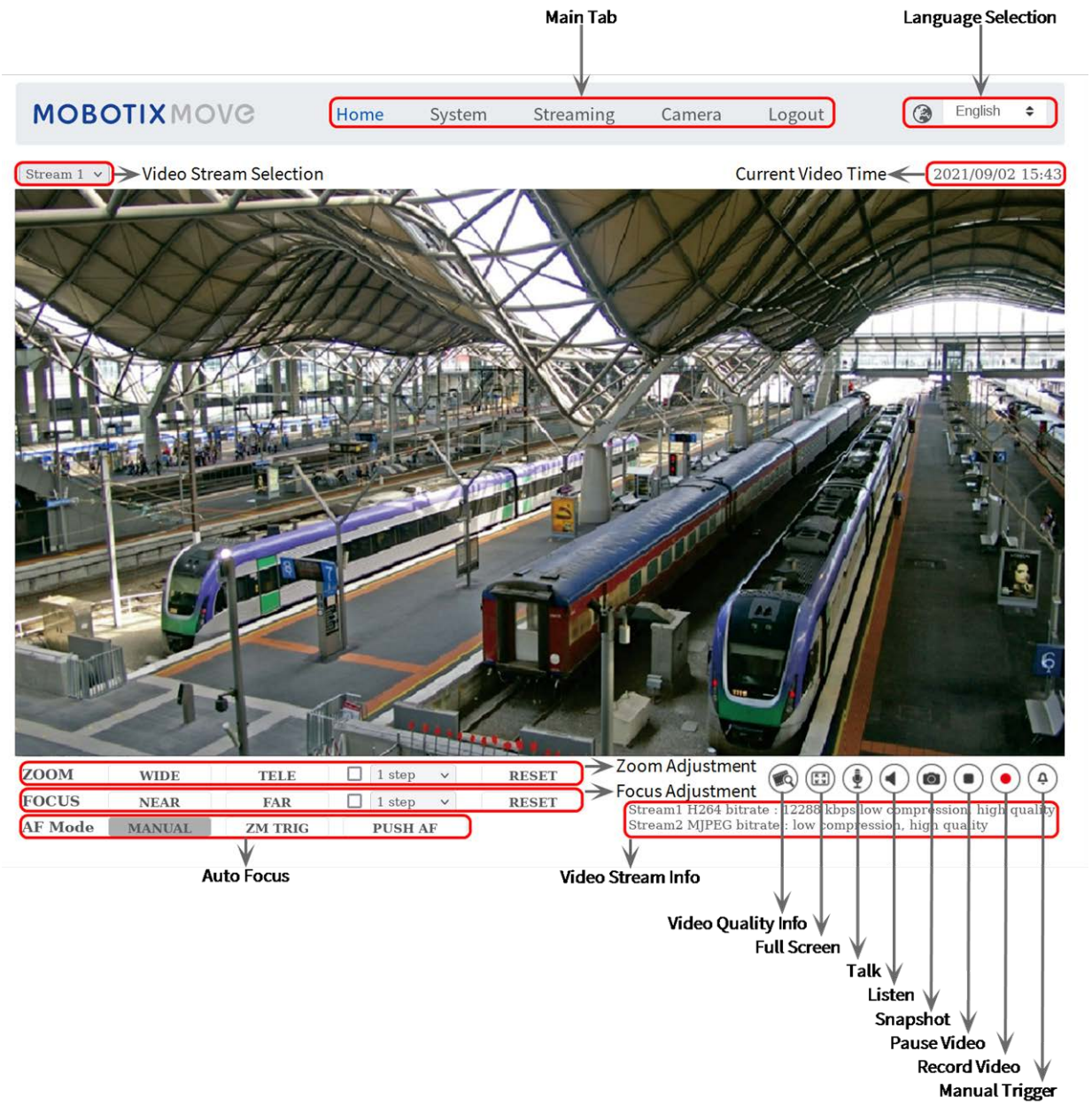
3. You will be prompted to set a new admin user password.

   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.



Camera Maintenance

It is recommended that you perform the following maintenance tasks at regular intervals to keep the 2MP Speed Dome Low Light Camera in good working condition:

- Clean the using plain water and a soft cloth.

  CAUTION! Do not use any detergents or alcohol to prevent damage to 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 .

Further Reading

Manuals and Quick Installation documents	
Technical Specifications	
MOBOTIX MOVE Installation Hints	

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