

Mod.
1099

urmet

DS1099-160

WIFI 3MP IP PoE CAMERAS SERIES

BULLET

1099/214B

1099/216B



USER MANUAL

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INTRODUCTION

Dear Customer,

Thank you for purchasing this product. We invite you to read this manual carefully before starting any operation. The software can be updated at any time. Consequently, the contents of this instruction manual are subject to change without prior notice.

Notes:

- IPC standard for Internet Protocol Camera.
- Select: left click.
- Double click: left click twice.
- Default IP address of the IP camera enabled in absence of DHCP: 192.168.1.168.
- Default username of the camera IP: admin (lower case); Password: admin (lower case).
- Default web port: 80. Default web port: 6066. Command port: 6060.
- To avoid IP address conflicts, it is advisable to connect and configure one IP camera on the network at a time.
- The content of this manual could be different from your current version. Please contact Urmet Technical Customer Care if you encounter problems during operations. The manual will be regularly updated without prior notice.

1 PRODUCT DESCRIPTION

URMET devices Ref. 1099/214B, Sch. 1099/216B are wireless IP cameras which may be controlled entirely by connecting to the TCP/IP network.

1.1 Technical specifications

- High-performance CMOS sensor.
- Optimised H.264/H.265 video compression algorithms; multi-stream transmission for high-definition images on broadband and narrowband media.
- Simultaneous connection
- With integrated web server, Internet Explorer can be for real-time monitoring, setting and managing from the website.
- Mobile software based on the following platforms: iOS (iPhone), Android (Smartphone).
- Possibility to record on micro-SD card (not included) or on IP HVR/NVR device (not included).
- Remote system updates supported.
- LAN and Internet supported.
- ONVIF protocol supported.
- Various network protocols supported, such as HTTP, TCP/IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS.
- Alarm function supported on movement detection (the user can set area and sensitivity).
- Privacy area function supported.
- Wireless connection function.
- Snapshot function. Image uploading from email.
- Automatic reset function supported. Can be connected automatically in case of network interruption.

Note: the specifications of the various products may be subject to minor changes.

1.2 Opening the package

Check that the packing and the contents are not visibly damaged. Contact the retailer immediately if parts are either missing or damaged. Do not attempt to use the device in this case. Send the product back in its original packing if it is damaged.

ACCESSORIES PROVIDED

- 1 WIFI IP camera
- 1 URMET quick guide on paper
- 1 Addendum QR code URMET APP V-Stream on paper
- 1 OSS Notice on paper
- 1 aerial (1099/214B, 1099/216B)
- 1 first installation kit containing fixing screws and/or hex wrench and/or tools for opening the device
- 2 hex wrenches (1099/214B, 1099/216B)

※ IMPORTANT NOTE:

Accessories may vary without prior notice.

1.3 WARNINGS

Power

- Make sure that the rating plate data corresponds to the power specifications before connecting the device to the mains.
- Arrange a suitable circuit breaker and fuse upstream of the devices.
- Disconnect power by means of the circuit breaker in the event of a failure and/or bad operation.

Safety precautions

- Keep the device away from rain and humidity to prevent the risk of fire and electrocution. Do not introduce material (solid or liquid) inside. If this should accidentally occur, disconnect the device from the mains and have it inspected by qualified personnel.
- Never open the device. In all cases, contact a qualified personnel or authorised service centre for repairs.
- Keep the device away from children to prevent accidental damage.
- Do not touch the device with wet hands to prevent electrical shock or mechanical damage.
- Do not use the device if it should fall or the external casing is damaged. Risk of electrocution if the device is used in such conditions. Contact the retailer or authorised installer.

Installation precautions

- Do not install the camera in environments exposed to rain or humidity. Use specific boxes if required.
- Avoid pointing the lens directly towards the sun or intense sources of light also when the camera is off. The subject must not be backlit.
- Do not point the camera towards reflecting objects or mirrors.
- Some lighting systems (e.g. coloured fluorescent lights) may false the colours.
- Do not arrange this device on an unstable surface, such as a tottering or slanted table. The device could fall causing injury or mechanical failures.
- Stop using the device if water or other material should penetrate inside: risk of fire and electrocution. Contact the retailer or authorised installer.
- Do not cover the device with a cloth while it is running to prevent deforming the external casing and overheating the internal parts: risk of fire, electrocution and mechanical failure.
- Keep magnets and magnetised objects away from the device to prevent faults.
- Do not use the device in presence of smoke, vapour, humidity, dust or intense vibrations.
- Wait for a while before operating a device immediately after transporting it from a cold place to a warm place and vice versa. Wait on average for three hours: this will allow the device to adapt to the new ambient (temperature, humidity, etc.).

Precautions

- Make sure that the device is intact after removing it from the package.
- Check that the working temperature is within the indicated range and that the environment is not excessively damp.
- Do not point the camera towards the sun to prevent damaging the sensor.

Cleaning the device

- Rub delicately with a dry cloth to remove dust and dirt.
- Dip the cloth in neutral detergent if dirt cannot be removed with a dry cloth alone.
- Do not use spray products to clean the device. Do not use volatile liquids (such as petrol, alcohol, solvents, etc.) or chemically treated clothes to clean the device to prevent deformation, deterioration or scratches to the paint finish.
- Disconnect the device from the mains before cleaning or maintenance.

Image recording

- This device was mainly designed to transmit and possibly record images, not as a burglar alarm. Urmet S.p.A. cannot be held liable for loss or damage following theft sustained by the user.
- Test recording before using the device to make sure that is working correctly. Please note that Urmet S.p.A. is not liable for loss of stored data consequent to loss or damage caused by incorrect installation, use, improper use or malfunctioning of the device.
- This device contains precision electronic components. Protect the device from shocks to ensure correct recording of images.

Privacy and Copyright

- The IP camera is a CCTV system device. Recording of images is subject to the laws in force in your country. Recording of images protected by copyright is forbidden.
- Product users shall be responsible for checking and respecting all local rules and regulations concerning monitoring and recording video signals. The manufacturer **SHALL NOT BE LIABLE** for use of this product not in compliance with the laws in force. For more information see <http://www.garanteprivacy.it>.

Firmware upgrades

- It is advisable to periodically check the Urmet website in the product-specific section for software and/or firmware updates (go to www.urmet.com in the Products section "VIDEOSORVEGLIANZA AREA", type the reference product code in the search field and move to DOCUMENTATION AND RESOURCES).

Network configuration

- The camera is set to DHCP mode. If the network on which it is installed does not support dynamic addresses (DHCP), the camera will automatically activate the default IP address 192.168.1.168. The "Easy Tool" Urmet software can be used to change the default IP address and other network configurations of the camera to prevent conflicts with other devices on the network. Always check the warnings for restrictions concerning the address which can be assigned to the camera.

Network connections

- When connecting a PC (using Software Client or Browser), any video channel on the PC will be using "unicast" connection (TCP, RTP, UDP).
- The device can support a limited number of "unicast" connections so it is possible to show the video on maximum 4 remote devices (of which 2 smartphones at the most) at the same time depending on the available network band.

Reset button

- Press for at least 3 seconds: the camera is completely reset and goes back to default settings.
IMPORTANT NOTE: the camera loses network configuration and the WiFi interface returns to Access Point mode.

2 SIMPLIFIED EU DECLARATION OF CONFORMITY

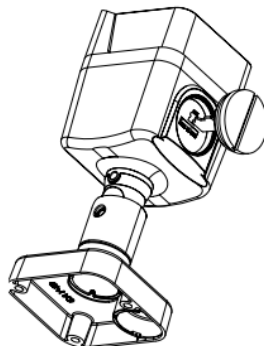
Hereby, URMET S.p.A. declares that the radio equipment types: cameras 1099/214B, 1099/216B, are in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.urmet.com

3 INSTALLATION

3.1 1099/214B→ WIFI BULLET FIXED LENS CAMERA

It is advisable to proceed as follows for correct camera installation and configuration:

1. Make sure that no units are powered before starting the installation procedure. Fit the aerial on the camera. It is advisable to install and configure one camera at a time if you are installing multiple cameras on the same network.
2. Connect the camera to the network (see section 4). It is advisable to check that the WiFi signal received by the camera is higher than or equal to 60.
3. Position the camera in a point on the wall or other surface and adjust the bracket to frame the required scene.
4. If you want the camera to record and store video files on a micro SD card (not included), plug the card into the slot when the camera is powered off (see the picture below). Power on the camera and use the camera's wepgabe or the app to format the card before starting the recording function.

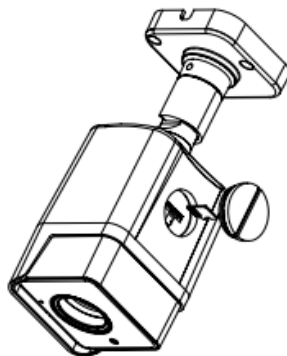


5. If you are using a NVR/HVR device, assign a static IP address to the camera and use the NVR/HVR menu to add the camera to a recording channel.

3.2 1099/216B → WIFI BULLET VARIFOCAL CAMERA

It is advisable to proceed as follows for correct camera installation and configuration:

1. Make sure that no units are powered before starting the installation procedure. Fit the aerial on the camera. It is advisable to install and configure one camera at a time if you are installing multiple cameras on the same network.
2. Connect the camera to the network (see section 4). It is advisable to check that the WiFi signal received by the camera is higher than or equal to 60.
3. Position the camera in a point on the wall or other surface and adjust the bracket to frame the required scene. Make sure that the frame and the zoom level is correct. Adjust the bracket again and lock it in its final position.
4. If you want the camera to record and store video files on a micro SD card (not included), plug the card into the slot when the camera is powered off (see the picture below). Power on the camera and use the camera's webpage or the app to format the card before starting the recording function.



5. If you are using a NVR/HVR device, assign a static IP address to the camera and use the NVR/HVR menu to add the camera to a recording channel.

4 HOW TO CONFIGURE THE CAMERA IN A NETWORK

In this section explanation is provided to configure the camera in the network and to connect it remotely from the smartphone App or from a PC.

IMPORTANT NOTE: the camera is provided with two different network boards, one for the wire connection and one for the WiFi connection, each with its own MAC address and its own IP address.

4.1 HOW TO ADD THE CAMERA TO A WIFI NETWORK FROM THE APP

The camera can be quickly configured on the WiFi network using a smartphone, to do so refer to the Quick Guide of the Urmet App [V-Stream](#):



V-Stream

Alternatively, the camera can be also configured on the WiFi network without making use of the smartphone, i.e. using a PC in either way: by temporarily wiring the camera to the LAN (see § 4.4) or in ACCESS POINT mode (see § 4.5).

4.2 HOW TO ADD THE CAMERA TO A WIFI NETWORK USING A SMARTPHONE BROWSER

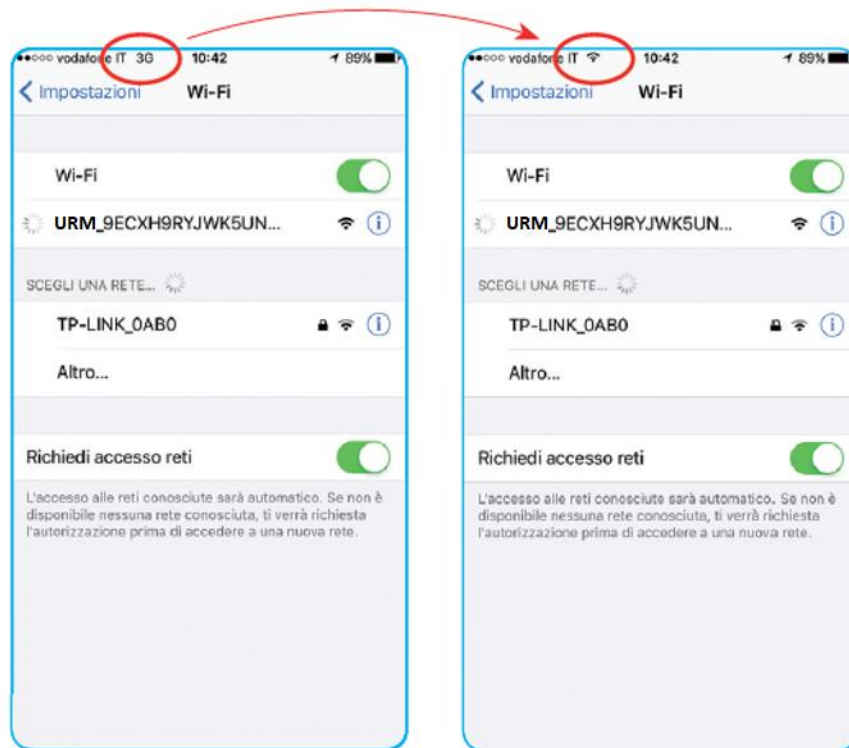
The camera can be easily configured on the WiFi network using the smartphone browser:



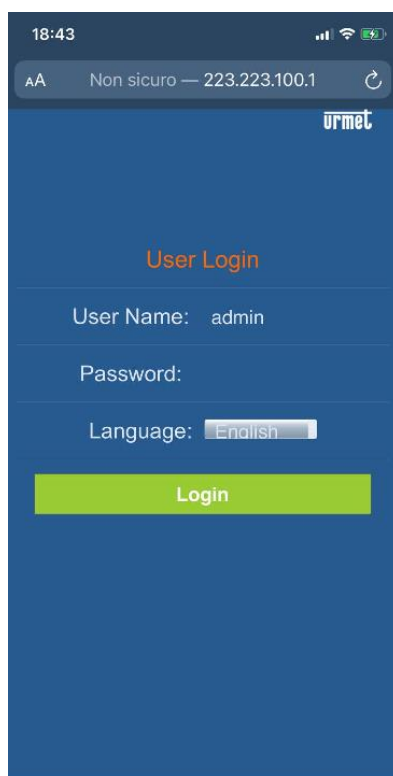
Open the WiFi settings of the smartphone and select the SSID of the camera in AP (Access Point) mode, the SSID is of the **URM_** type as in the image below :



Wait for the connection icon to change from 3G (or other) to Wi-Fi. This may take a few minutes.

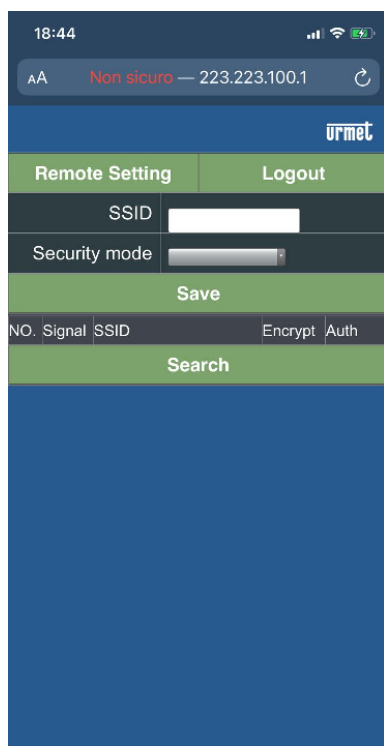


Once the smartphone is connected to the camera's Wifi, using any smartphone browser, open the camera's web page at the address <http://223.223.100.1> by logging in with User Name: **admin**, Password: **admin**

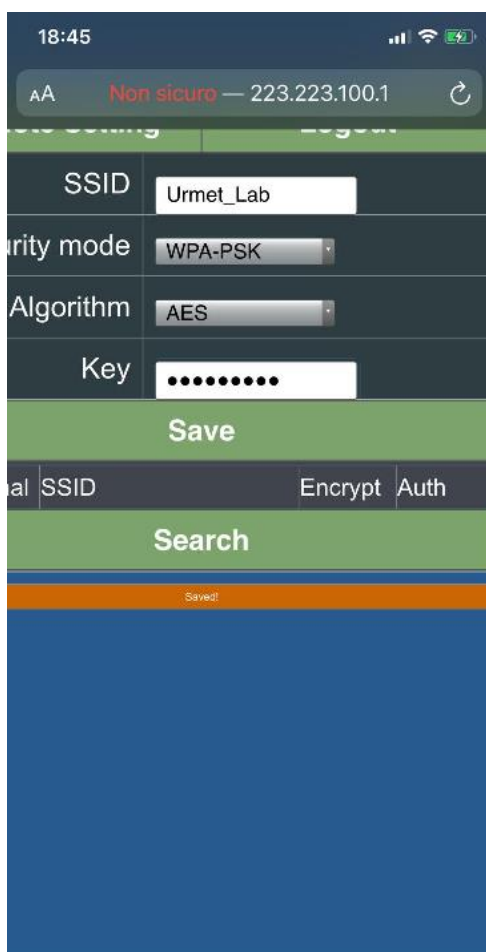


After logging in, the Wi-Fi management page of the camera opens directly, pressing the **Search** button displays the list of Wi-Fi networks detected by the camera.

IMPORTANT: if your smartphone offers to switch to another Wi-Fi network to access the Internet, refuse the change to stay on the current Wi-Fi network and keep the connection with the camera.



Select the Wi-Fi corresponding to the internet router to which you want to connect the camera and enter the router's Wi-Fi network password, then press **Save** and wait for the message **Saved!** lower in the page:



At this point the smartphone automatically gets disconnected from the camera which is no longer in AP (Access Point) mode, the camera is therefore connected to the internet router.

IMPORTANT: from factory settings the camera works in DHCP mode therefore it automatically receives a dynamic IP address assigned by the router.

Use the URMET V-Stream APP available on the Stores to add the camera by scanning the local network or the QR code label on the device and view images on smartphones through the internet:



To connect to the camera also from a PC workstation, use the “EasyTool” software (see following sections).

4.3 HOW TO ADD THE CAMERA TO A CABLED NETWORK AND CONNECT FROM THE APP

Use a LAN cable to connect the camera to the internet router then power the camera, it will get a dynamic IP address assigned by the router's DHCP service. If the DHCP service is not available on the network, the camera will automatically assign the default IP 192.168.1.168 to itself.

Download the URMET App V-Stream from the store and use it to connect to the camera by simply scanning its QR code label, then it will be possible to display the camera's pictures on the smartphone through the internet:



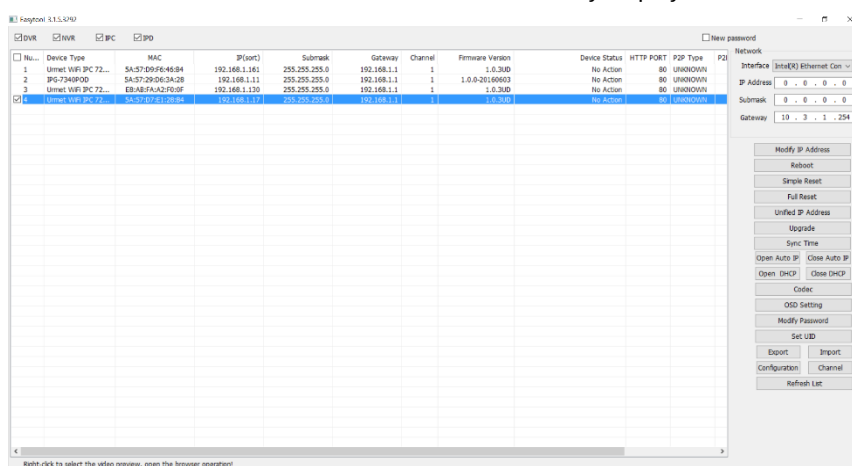
Use the software “Easy Tool” to search and to connect to the camera from a PC (see below sections).

4.4 HOW TO ADD THE CAMERA TO A WIFI NETWORK USING LAN CABLE AND PC

Use a network cable to connect the camera to the LAN and power it. The camera will receive an IP address assigned automatically by the DHCP service of the network. If the DHCP service is not available on the network, the camera will automatically assign the default IP 192.168.1.168 to itself.

The following steps are needed for configuration:

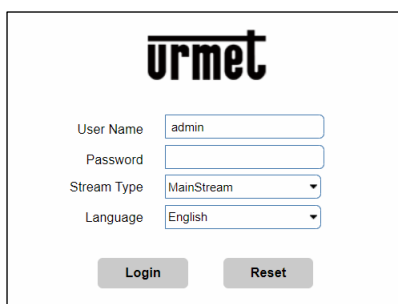
1. Start “EasyTool” on the PC by selecting : the IP address, subnet mask, gateway and MAC address of each IP camera active on the LAN will be automatically displayed, as shown in the figure below.



2. After having detected the IP camera, right-click and select “Open in IE” to open a Web page on IE.

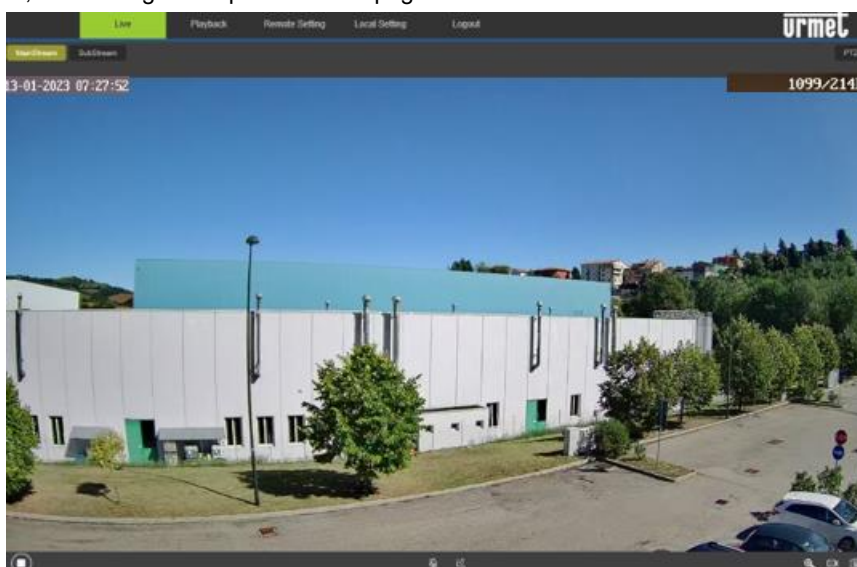
See the applicable section in the complete manual if installation of an ActiveX component is required.

You can select user name (default: admin), password (default: admin), stream type (Main/Sub Stream) and language on the login page.

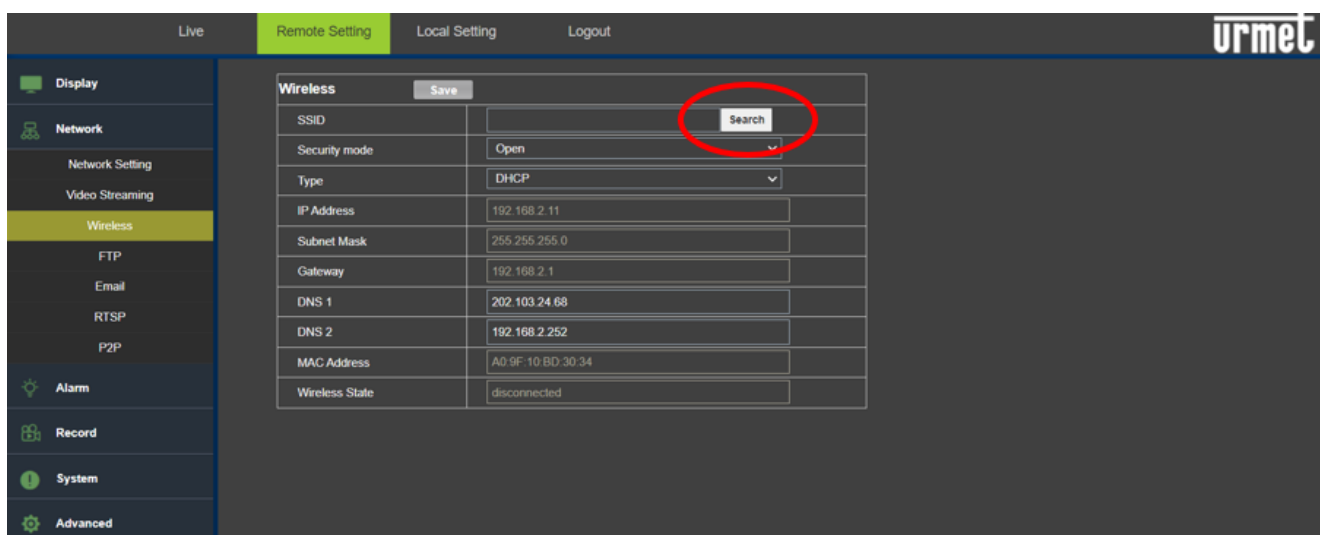


The login page features the 'urmet' logo at the top. Below it, there are four input fields: 'User Name' with 'admin' entered, 'Password' (empty), 'Stream Type' with a dropdown menu showing 'MainStream', and 'Language' with a dropdown menu showing 'English'. At the bottom, there are two buttons: 'Login' and 'Reset'.

- At this point, select "Login" to open the LIVE page.



- Select the "Remote Setting" menu and then the "Wireless" menu under "Network" on the left.



The 'Remote Setting' page shows the 'Wireless' configuration section. A red circle highlights the 'Search' button. The configuration fields include: SSID, Security mode (Open), Type (DHCP), IP Address (192.168.2.11), Subnet Mask (255.255.255.0), Gateway (192.168.2.1), DNS 1 (202.103.24.68), DNS 2 (192.168.2.252), MAC Address (A0:9F:10:BD:30:34), and Wireless State (disconnected). A 'Save' button is located at the top of the configuration area.

- Press the "Search" button to open the following page showing all the available WiFi networks and the signal power detected for each one:

NO.	Signal Strength	SSID	Encrypt	Auth
1	89	TP-LINK_A1E30E	AES	WPAPSK
2	100	URMET_ufficio	AES	WPAPSK
3	100	PLEXA INTERNI	TKIP	WPAPSK
4	100	MikroTik-7EBF4D	AES	WPAPSK

6. Select the SSID of the WiFi network you want to connect the camera to, enter the network key and save the configuration by pressing the “Save” button. It is advisable to check that the WiFi signal received by the camera is higher than or equal to 60.

Wireless	
SSID	UFFTVCCext Search
Security mode	WPA-PSK
WPA Algorithm	TKIP
Key	***** (50 Max)
Type	DHCP
IP Address	192.168.2.11
Subnet Mask	255.255.255.0
Gateway	192.168.2.1
DNS 1	202.103.24.68
DNS 2	192.168.2.252
MAC Address	A0 9F 10 BD 30 34
Wireless State	disconnected

7. Disconnect the network cable from the camera to switch it to WiFi mode. Press the “Refresh List” button of “EasyTool” to check that the camera appears again when it is connected to the WiFi network.
8. If you want the camera to record and store video files on a micro SD card (not included), plug the micro SD card into the slot when the camera is powered off. Power on the camera and use the camera’s wepgabe or the app to format the card before starting the recording function.
If you are using a NVR/HVR device it is advisable to assign a static IP address to the camera: see § 4.6 of this guide to perform this operation.

4.5 HOW TO ADD THE CAMERA TO A WIFI NETWORK USING AP MODE AND PC

This mode is used to configure the wireless network interface of the camera without wiring it to the network and using a PC. It is an alternative to § 4.4.

The camera is automatically set to Access Point mode if it was never configured in a WiFi network. A PC with wireless network board is needed to configure it. In this case, network configuration may be performed after having fitted and powered the camera in its final position.

The following steps must be performed for configuration:

1. Search from the available WiFi networks on the PC. The camera has a “URM_...” SSID. Select this SSID to connect the PC to the camera.
2. Run steps from 1 to 6 described above in § 4.4. When asked for the camera’s Wi-Fi network password, enter: 01234567
3. When the camera connects to the configured WiFi, it stops working in Access Point mode and disconnects from the PC. For this reason, the PC must be connected to the LAN before pressing the “Refresh List” button of the “EasyTool” program and detect the camera again in the network.
4. Run step 8 described above in § 4.4.

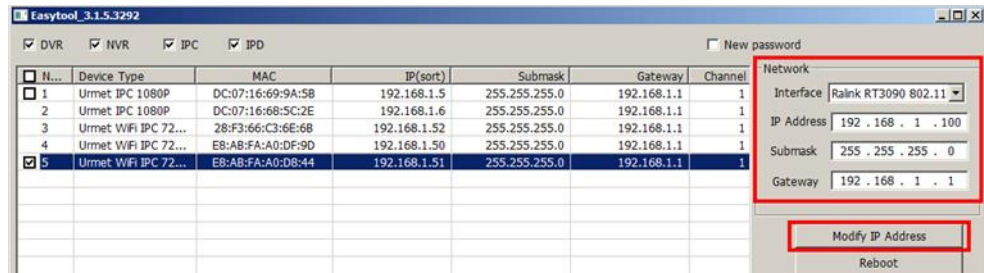
4.6 STATIC IP ADDRESS ALLOCATION

The network parameters of the camera, such as IP address, subnet mask and gateway may be set and modified using “EasyTool” provided or on the camera web page.

If the camera has to be recorded by a HVR/NVR device it is advisable to set a static IP address after having appropriately connected and configured the camera in the network (see previous sections). Make sure that the IP address you want to assign to the camera is not already used in the network. It is better to use an address outside the range of addresses assigned by means of DHCP.

To assign the static IP address, select the camera after having detected it in “EasyTool”. As shown in the figure below, fill in the static network parameter to be assigned (the fields are filled in automatically by selecting the correct network interface from those available on the PC) in the specific section of the tool.

Press “Modify IP Address” to change the IP address of the device and wait for a few instants.

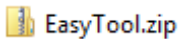


Press the “Refresh List” button of “EasyTool” to refresh the list and view the camera with the changes made.

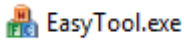
IMPORTANT NOTE: to set/edit the network parameters of the camera (IP address, subnet mask, gateway) it is advisable to use EasyTool or the web page of the camera. It is not advisable to set/edit the network configurations of the camera in the NVR/HVR menus on which the camera was added; make sure that the NVR/HVR device is updated to the latest firmware version.

5 EASYTOOL

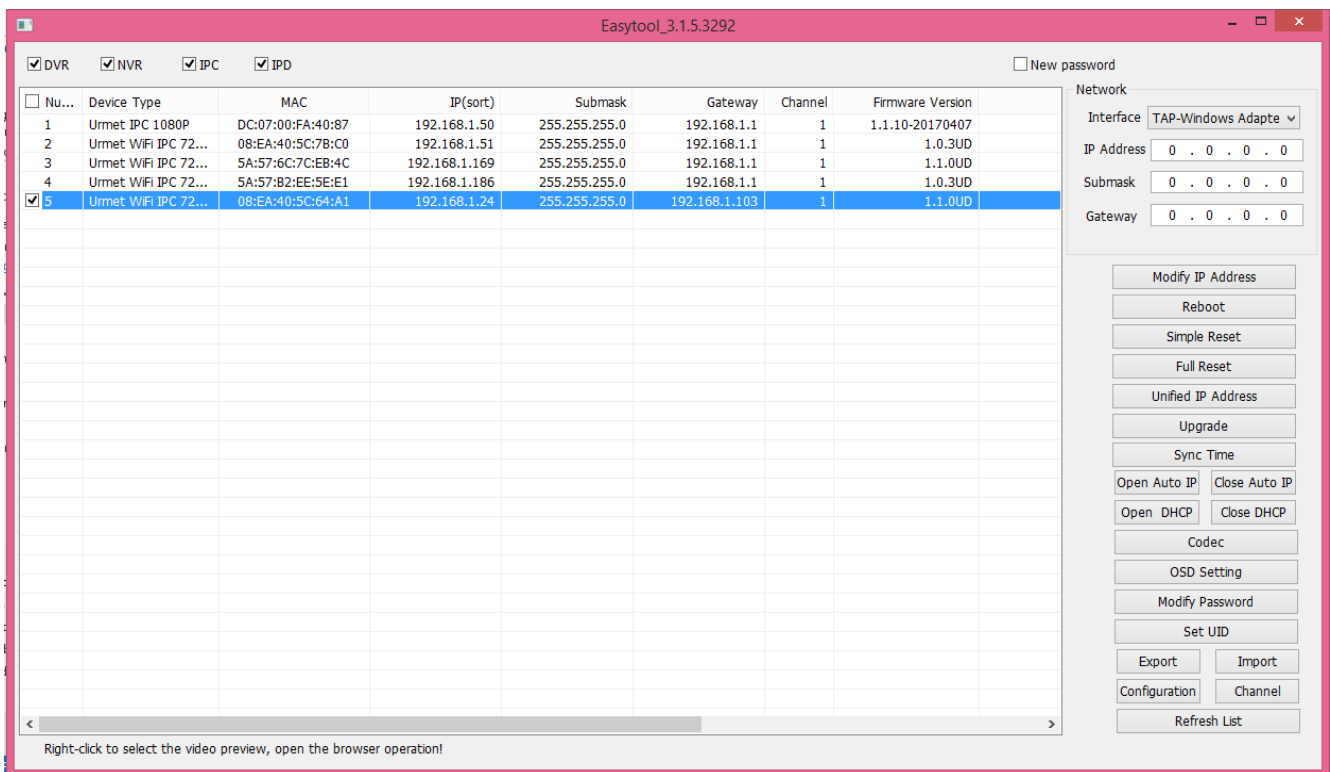
The software can detect the IP address of the IP camera on the LAN. Firstly, download the easytool.zip file from the Urmet website and unzip it.



Install and run EasyTool.exe.



Start “Easy Tool” by selecting : the IP Address, Subnet Mask, Gateway and MAC Address will be automatically shown for each IP camera, as shown in the following figure.



If the searched IP and the IP address of the PC are not on the same network segment, the IP address, the subnet mask and other IP camera parameters can be changed by using Easy Tool.

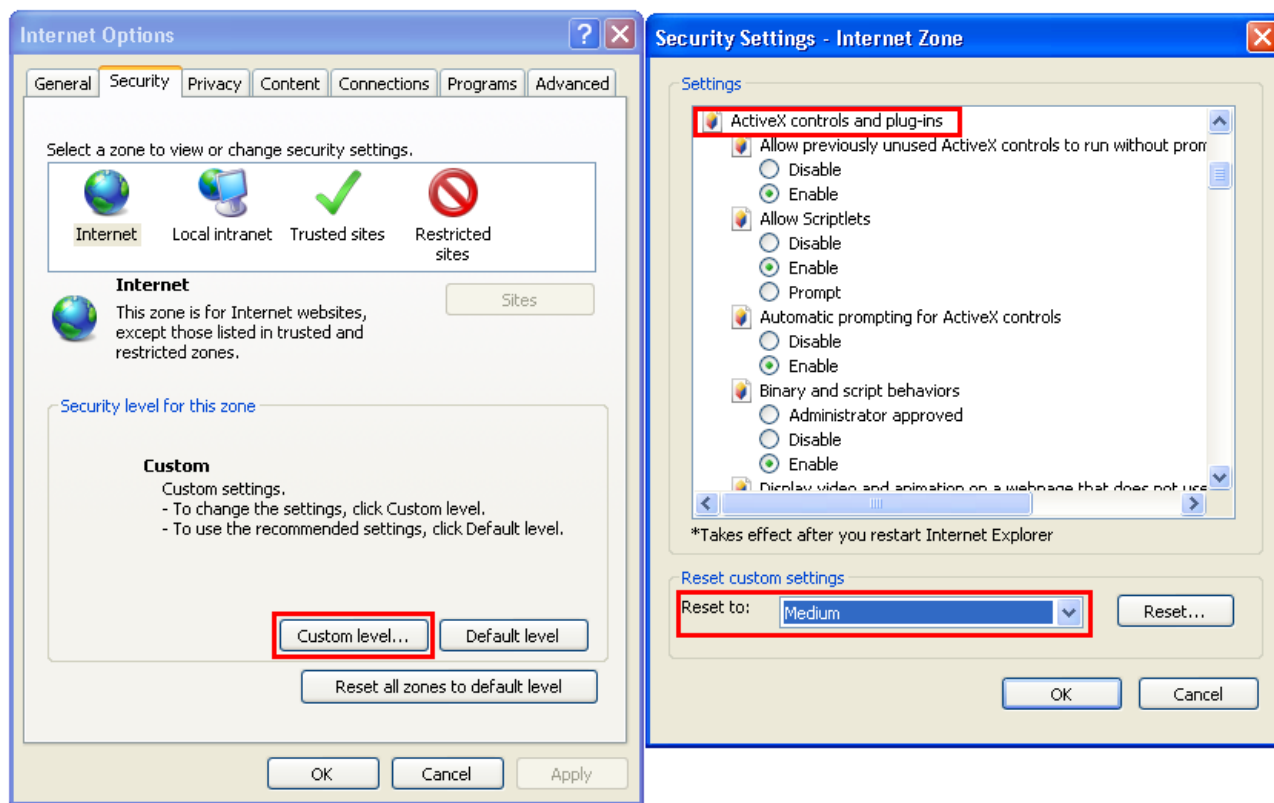
Firstly, select the device the IP address of which you want to change and enter the new IP address, Subnet Mask and Gateway values (Subnet Mask and Gateway may be inherited from the PC) and the username/password. Click on **Modify IP Address** to change the IP address of the device.

※IMPORTANT NOTE

The default IP address of the IP camera is “192.168.1.168”, the default username is “admin”, the default multimedia port number is “6066” and the default command port is “6060”.

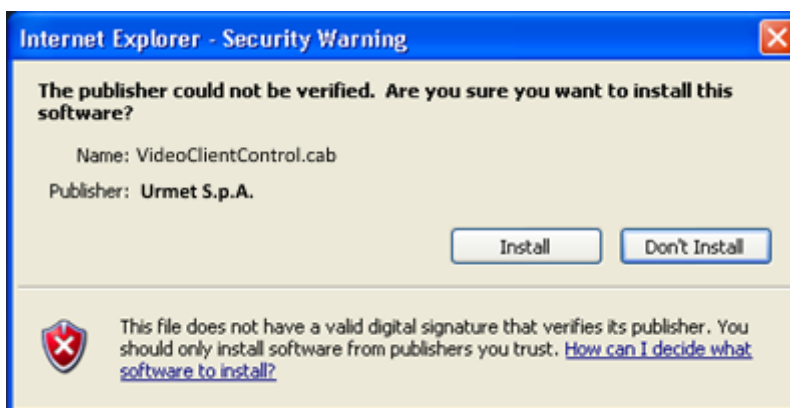
6 ACTIVEX CONTROL CONFIGURATION

You will need to install the plug-ins when inspecting the IP camera using Internet Explorer (Edge running in IE mode) for the first time. Set the browse protection level to install the plug-in. Select the menu [Tools/Internet Options/Security/Custom Level] and for "ActiveX controls and plug-ins" select "Enable" or "Prompt", as shown in the following figure. For safety, reset the default protection setting in IE after having viewed the IP camera image.



Plug-in installation method:

Enter the IP address of the IP camera on the IE address bar to inspect the IP camera. The controls will be loaded automatically on the IP camera.



The plug-in installation window will appear. Click on "Install" to complete the installation automatically.

7 CONNECTION FROM OTHER WEB BROWSERS

The camera web page can be accessed using a browser other than Internet Explorer, simply by keying in the IP address of the camera on the navigation bar of the browser.

In this case, no additional components need to be installed and the displayed stream live consists in MJPEG video stream for which selecting Main/Sub is not effective on the login home page.

IMPORTANT NOTE:

all the controls present on the lower bar of the live video (after login):



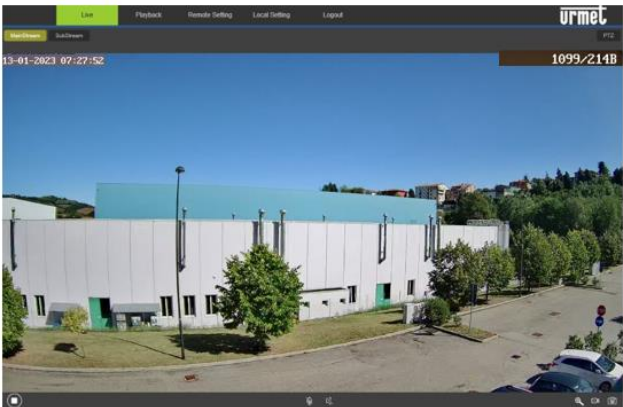
are available only if the Internet Explorer is used as browser after installing the ActiveX control of the camera on the PC. These controls are not available when connecting to the web page of the camera using different browsers from IE.

8 IP CAMERA WEB PAGE CONFIGURATION

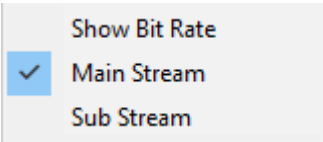
8.1 LIVE

Open Edge running in Internet Explorer mode or other browser and enter the IP address of the IP camera (e.g.: <http://192.168.1.168>). The login window appears. Observe the following figure:

The user can select the Stream Type on the access interface (this selection is only effective for Internet Explorer). Enter User name (default: admin) and Password (default: admin), select Language and click on “Login” to access the Live interface, as shown in the following figure.



Right-click (on Internet Explorer with ActiveX only) to select the stream to be displayed (Main Stream, Sub Stream) and to view the bitrate.



Other Live interface buttons (on Internet Explorer with ActiveX only):



: this is used to search and playback the video files recorded in the camera's SD memory card (not included).



: This is used to access the device setup menu to set the various customised parameters;



: Snapshot, file type, saving path etc.;



: Close and go back to the login page;



: PTZ interface to control ZOOM and FOCUS (only for Autofocus camera models)

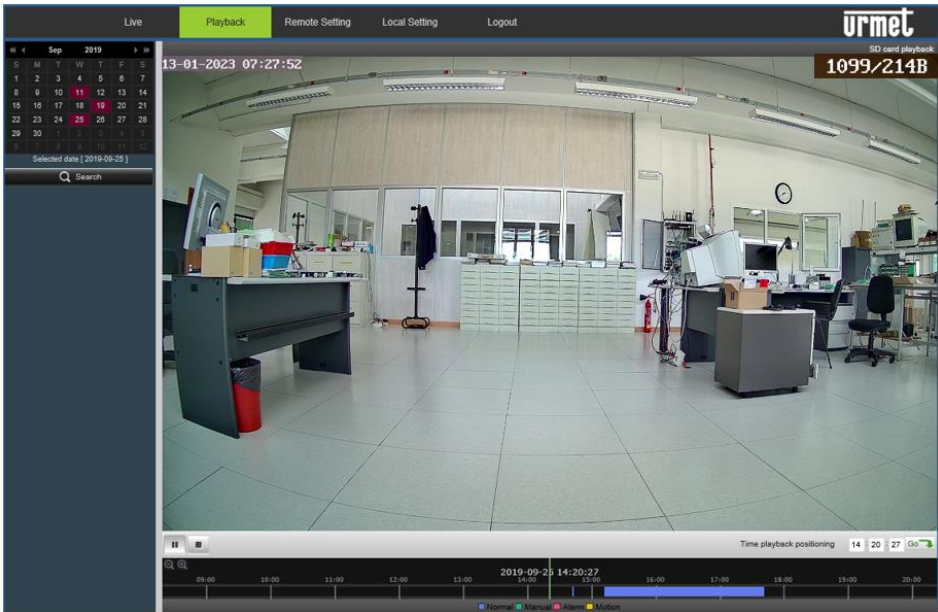


: Control button preview. From left to right, the buttons are: Start/Stop live video, Switch On/Off the PC Mic (to send audio to the camera), Switch On/Off the PC Audio (to receive audio from the camera), digital zoom, Start/Stop video recording on PC, Snapshot.

8.2 PLAYBACK



Click on to access the Playback interface:



Select one of the red dates within the selected month and push the button  to display the video recorded files on the time bar. Different colors refer to different recording Type (Normal, Manual, Alarm, Motion).

Use the button  to start playing back the video.

To quickly position the playback time cursor on the time bar during the playback you can use the function:



and push **Go** while the video is playing.

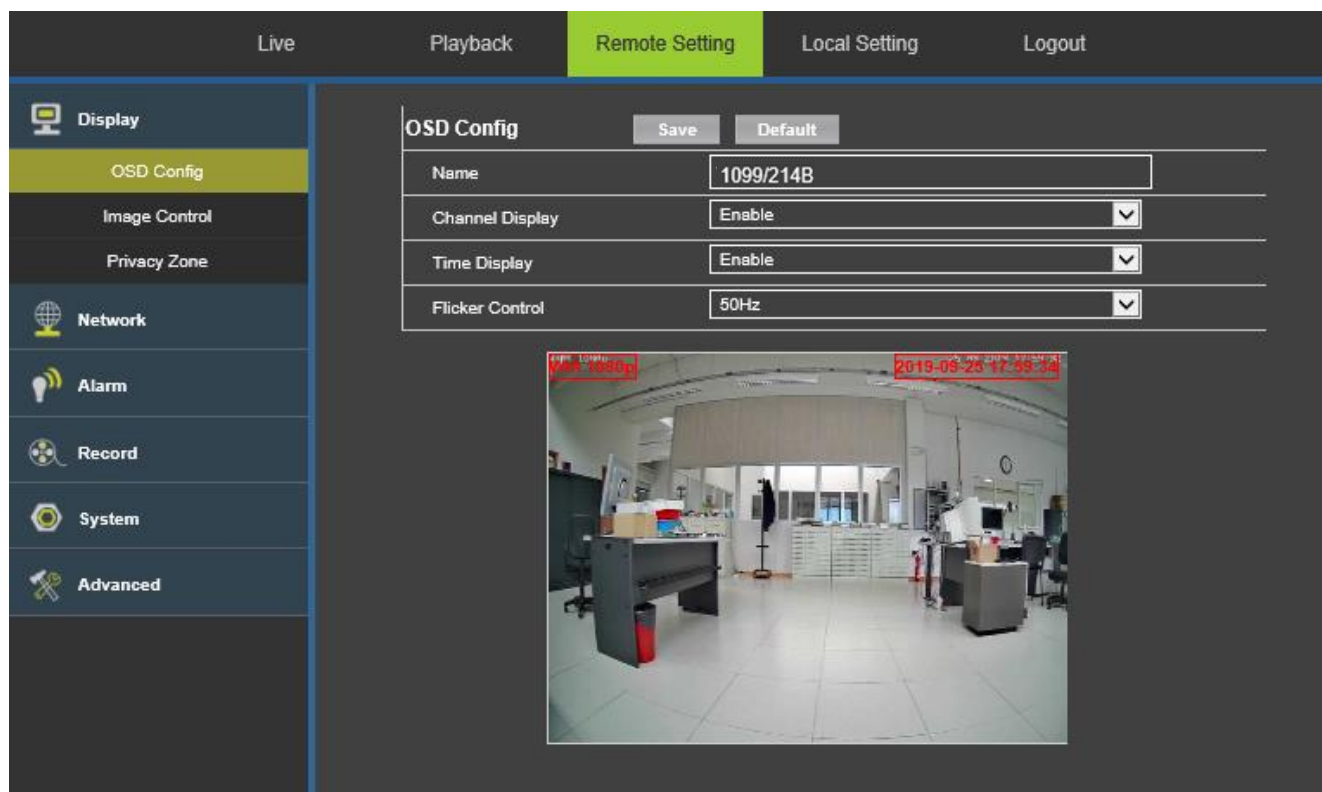
8.3 REMOTE SETTINGS

8.3.1 DISPLAY

1) OSD CONFIG

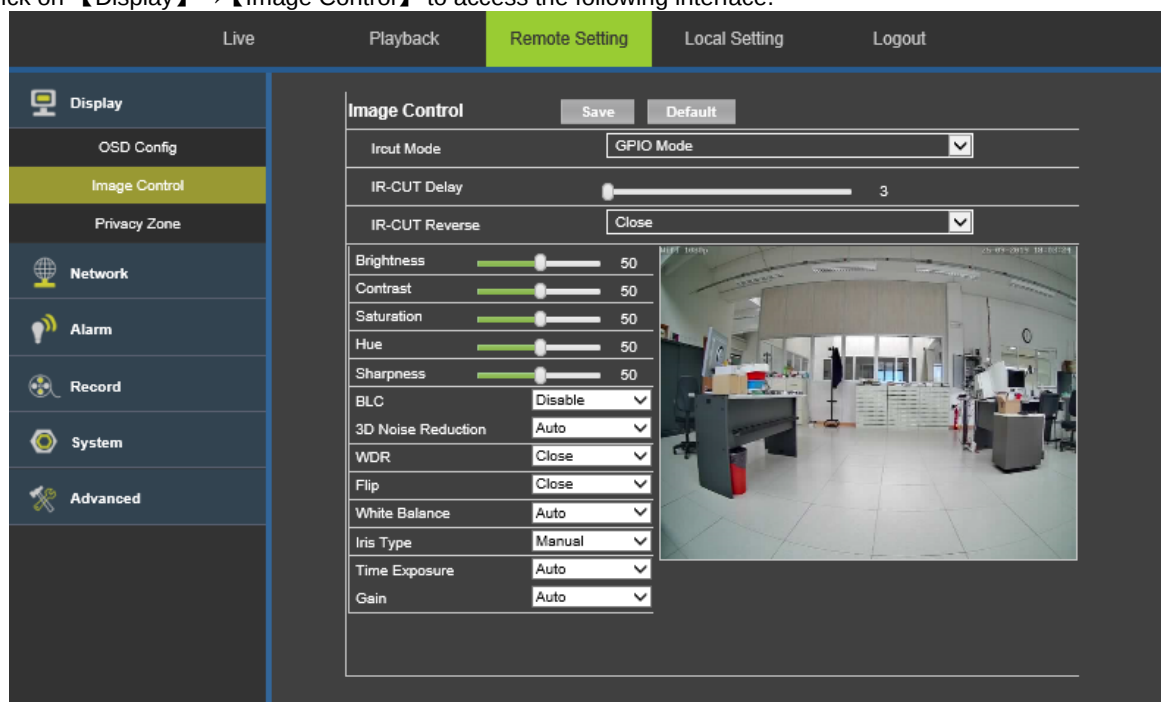
Click on  (Remote settings) to access the Live interface OSD Config (default).

- **Name:** IP camera name.
- **Channel Display:** Enable/Disable. The display position can be customised.
- **Time Display:** Enable/Disable. The display position can be customised.
- **Flicker Control:** 50Hz/60Hz/Close



2) IMAGE CONTROL

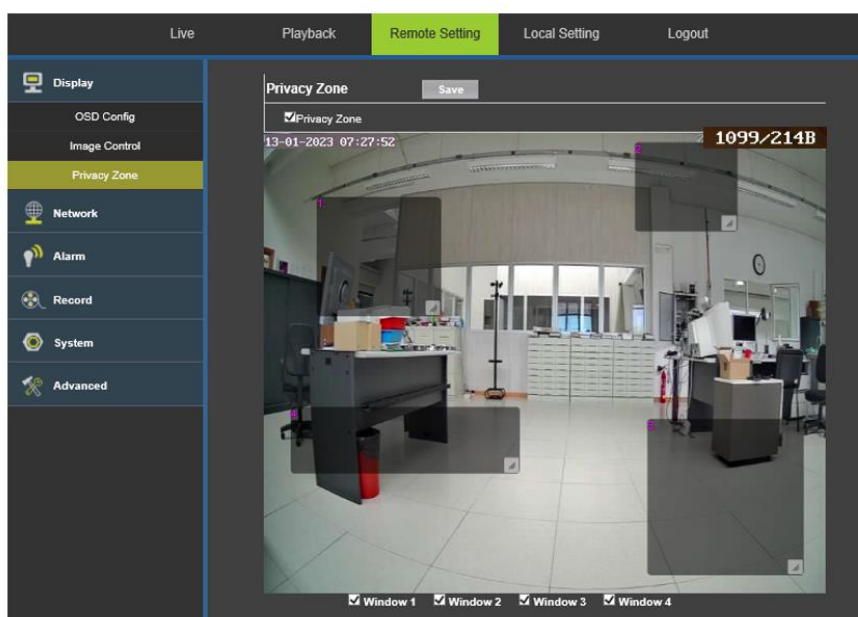
Click on **【Display】** → **【Image Control】** to access the following interface.



- **IRCUT Mode:** 3 modes:
 - GPIO & Video Mode : default mode. The camera switches from colors to black and white (turning on the IR LEDs) and vice versa based on the environment light detected by the external sensor integrated in the camera.
 - Color Mode or Daytime: fixed setting as colors only, it never switches to B/W picture.
 - Black & White Mode or Night: fixed setting as B/W only, it never switches to color picture.
- **IR-CUT Delay:** This is the IRcut delay time.
- **IR-CUT Reverse:** Enable/Disable the inversion of the functionality
- **Image setting:** This is used to adjust brightness, contrast saturation, hue, sharpness.
- **BLC (Back light compensation):** This is used to Enable/Disable backlight compensation. This function can compensate the shadows on the subject in case of exposure against sunlight. In some scenarios of use, the visual field may contain a very bright background, such as a door or a window in full sunlight, with the observed subject surrounded by the light field. In this case, the picture may appear dark and flat. Backlighting compensation may be used to solve this problem.
- **3D Noise Reduction:** Auto/Weak/Normal/Strong
- **WDR:** This enables or disables the WDR function: Weak, Normal, Strong.
WDR allows the camera to acquire highly contrasted images. In short, DR (dynamic range) shows the details of the light part and the dark part of the image. A broader dynamic range shows richer layers and a vaster colour range.
- **Flip:** 4 modes: Close, Leftright, Updown, Center.
- **White Balance:** Auto, Manual, Incandescent, Warm, Fluorescent, Natural.
Manual: Manual gain adjustment of red and blue colours for the camera video.
Auto: Optimisation according to the current lighting conditions and method of the screen and video colour calibration of the camera video colours.
- **Iris Type:** Manual and automatic modes can be selected. The default mode is Auto.
- **Time exposure:** Camera exposure level adjustment.
- **Gain:** Automatic gain level AGC adjustment (Auto, 6dB, 12dB, 18dB, 24dB, 30dB, 36dB, 42dB).

3) PRIVACY ZONE

Click on **【Display】** → **【Privacy Zone】** to access the following interface.



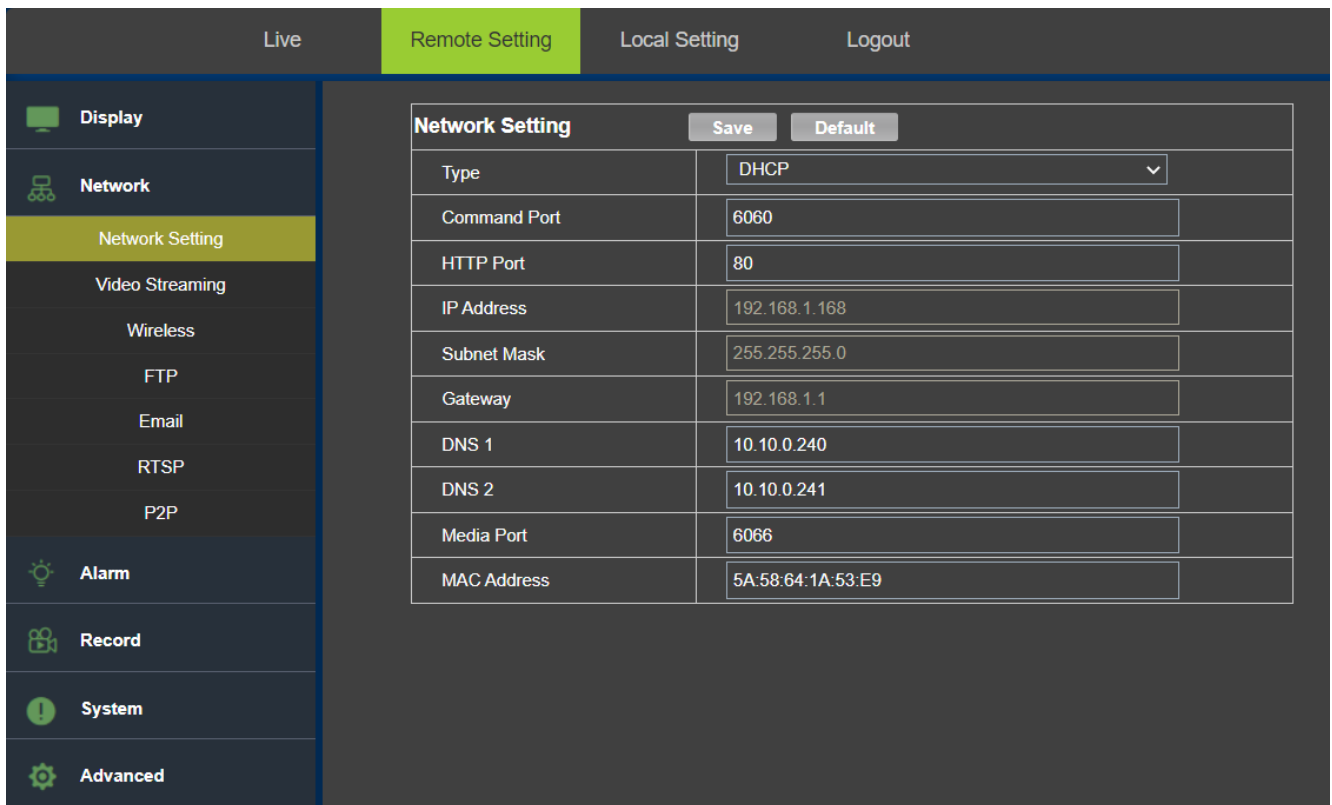
Privacy zone setting:

1. Click to enable the privacy zone.
2. Select the Privacy area to be activated from the available four (Window 1, Window 2, Window 3, Window 4).
3. Point to the corner in the bottom right of each Privacy area and drag the mouse to change the size. Then position the Privacy area on the concerned area of the image.
4. Click on Save to activate the privacy area.

8.3.2 NETWORK

1) Network configuration

Click on **【Network】** → **【Network Setting】** to access the following network page.



Network Setting	
Type	DHCP
Command Port	6060
HTTP Port	80
IP Address	192.168.1.168
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
DNS 1	10.10.0.240
DNS 2	10.10.0.241
Media Port	6066
MAC Address	5A:58:64:1A:53:E9

This page can be used to display and set the parameters related to the LAN of the camera:

- **Type:** DHCP, Static or PPoE. The default setting is DHCP.
- **Command Port:** This is the command port of the IP camera. Default: 6060
- **HTTP Port:** This is the web port of the IP camera. Default: 80
- **IP address:** Camera IP address
- **Subnet Mask:** Subnet mask of the IP camera.
- **Gateway:** IP address of the gateway used to access the Internet
- **DNS1/DNS2:** IP addresses of the DNS servers.
- **Media Port:** This is the client port of the IP camera. Default: 6066
- **MAC address:** This is the MAC address of the LAN board of the camera.

Only in the case that the camera has to be recorded by a network device HVR/NVR, it is advisable to set a static IP address after having appropriately connected and configured the camera in the network. Make sure that the IP address you want to assign to the camera is not already used in the network. It is better to use an address outside the range of addresses assigned by means of DHCP.

Select **"Type = Static"** and fill in the following fields: IP address, Subnet mask, Gateway and DNS. Press **Save** to save the changes.

2) Video Stream

Click on **【Network】** → **【Video Streaming】** to access the following interface.

MainStream		SubStream	
		Save	Default
Resolution	3MP(2304x1296)		
Video Code Type	H.265		
FPS	15		(fps)
I Frame Interval	60		(1~200)
Audio	Enable		
Rate Control	VBR		
	Good		
Bitrate	Pre_Defined		
	1536		

- **Type:** MainStream, SubStream.
- The user can set: Resolution, FPS, Audio (if the camera model has audio input), Bitrate control: CBR/VBR and the MainStream/SubStream Bitrate value.
- **Resolution:** MainStream 3MP (2304x1296), 1080P(1920x1080), 720P (1280x720), SubStream (640x360).
- **FPS:** max 20 for the Mainstream and 25 for the Substream
- **I Frame Interval:** is an interval for improving image quality. By default it is set to 60 for the MainStream and 50 for the SubStream.
- **Audio:** enable/disable TLC audio input (if supported by the camera model).
- **Rate Control:** Set the Bitrate management as CBR (Constant Bit Rate) or VBR (Variable Bit Rate, at 6 quality levels from Best to Worst).
- **Bitrate:** set the transmission speed to bits per second as manual (user-defined) or default value.

※IMPORTANT NOTE:

It is possible to access the third stream of the camera which is a MJPEG stream, by inputting the following URL in any internet browser's navigation bar:

<http://IP/Streams/1/4/ReceiveData>

Description:

- IP: to be replaced with the actual IP address of the device
- The MJPEG stream resolution can be modified in the following section: **【Advanced】** → **【Snapshot Settings】**

※IMPORTANT NOTE:

The HTTP URL to get single JPEG snapshots is the following:

<http://IP/Snapshot/1/RemoteImageCapture?ImageFormat=2>

Description:

- IP: to be replaced with the actual IP address of the device
- The JPEG snapshot resolution can be modified in the following section: **【Advanced】** → **【Snapshot Settings】**

3) Wireless

Click on **【Network】**) → **【Wireless】** to access the following interface.

The screenshot shows the 'Wireless' configuration page. On the left is a sidebar menu with options: Display, Network (selected), Network Setting, Video Streaming, Wireless (highlighted), FTP, Email, RTSP, P2P, Alarm, Record, System, and Advanced. The main area is titled 'Wireless' and contains a 'Save' button and several input fields:

Field	Value
SSID	
Security mode	Open
Type	DHCP
IP Address	192.168.2.11
Subnet Mask	255.255.255.0
Gateway	192.168.2.1
DNS 1	202.103.24.68
DNS 2	192.168.2.252
MAC Address	A0:9F:10:BD:30:34
Wireless State	disconnected

Press the **“Search”** button to open the following page showing all the available WiFi networks and the signal power detected for each one:

NO.	Signal Strength	SSID	Encrypt	Auth
1	89	TP-LINK_A1E30E	AES	WPAPSK
2	100	URMET_ufficio	AES	WPAPSK
3	100	PLEXA INTERNI	TKIP	WPAPSK
4	100	MikroTik-7EBF4D	AES	WPAPSK

Select the SSID of the WiFi network you want to connect the camera to, enter the network key and save the configuration by pressing the **Save** button.

IMPORTANT: It is advisable to check that the WiFi signal received by the camera is higher than or equal to 60.

Disconnect the camera network cable to make it switch to WiFi mode.

IMPORTANT: The camera will set its wireless network interface in DHCP mode when it connects to a WiFi network.

Only if the camera has to be recorded by a network device like HVR/NVR it is advisable to set a static IP address after having appropriately connected and configured the camera in the network. Make sure that the IP address you want to assign to the camera is not already used in the network. It is better to use an address outside the range of addresses assigned by means of DHCP.

Select **“Type = Static”** and fill in the following fields: IP address, Subnet mask, Gateway and DNS.

Press **Save** to save the changes.

4) FTP

Click on 【Network】) → 【Email】 to access the following interface.

The screenshot shows a web management interface with a top navigation bar containing 'Live', 'Remote Setting' (highlighted), 'Local Setting', and 'Logout'. On the left is a sidebar menu with categories: 'Display', 'Network' (expanded), 'Alarm', 'Record', 'System', and 'Advanced'. Under 'Network', the options are 'Network Setting', 'Video Streaming', 'Wireless', 'FTP' (highlighted), 'Email', 'RTSP', and 'P2P'. The main content area is titled 'FTP' and includes 'Save' and 'Default' buttons. It contains a table of configuration fields:

FTP	
FTP	Enable
Server	
Port	21
User name	username
Password	
Passive mode	Disable
Save directory path	ftp
Uploading	Picture
Status	not connect

Below the table is a 'Test FTP' button and a note: 'For some FTP server, before using this function, it is necessary to create a folder named 'ftp' in the root directory of the server!'.

➤ **Server:** it supports IP address or domain string

5) Email

Click on 【Network】) → 【Email】 to access the following interface

The screenshot shows the same web management interface as above, but with the 'Email' option highlighted in the sidebar. The main content area is titled 'Email' and includes 'Save' and 'Default' buttons. It contains a table of configuration fields:

Email	
Email	Enable
Encryption	Disable
Authentication	Enable
SMTP Port	25
SMTP Server	
Sender Email	
Sender Pwd	
Receiver Email1	
Receiver Email2	
Receiver Email3	
Subject	
Content	
Snap Interval	1min

At the bottom of the table is a 'Test Email' button.

Email service setting. By using this function in association with the Motion alarm function, the camera can sent the images acquired by email on the Internet by contacting the set email server (SMTP).

Email: Disable/Enable.	SMTP Port: The default value is 25 (email service port). If SSL is enabled, the port is usually 465.
SSL: Disable/Enable.	Authentication: Disable/Enable.
SMTP Server: Enter the email server address.	Sender Email: The sender's email address.
Sender Pwd: The sender's email password.	Receiver Email: The recipient's email address (three addresses are possible).
Snap Interval: This is the email sending frequency in case of event.	Test Email: This sends a email to test that parameter are correct.

6) RTSP

Click on **【Network】**) → **【RTSP】** to access the following interface.

Live

Remote Setting

Local Setting

Logout

Display

Network

Network Setting

Video Streaming

Wireless

FTP

Email

RTSP

P2P

Alarm

Record

System

Advanced

RTSP

Save

RTSP Port

554

Instruction: rtsp://IP:Port/live/A/B

A:0,1,2,3(Channel ID)

B:MAIN(MainStream),SUB(SubStream)

(Change the parameters will restart.)

- **RTSP Port:** The default password is 554. The device will be restarted after the change.

Description

- rtsp://IP:Port/live/A/B
- IP: IP address of the device.
- Port: RTSP port of the device. Default: 554.
- A: 0, 1, 2 ... channel ID number (for camera type devices use any ID, e.g. 0).
- B: MAIN refers to “main stream”, SUB refers to “sub stream”.

7) P2P

Click on **【Network】** → **【P2P】** to access the following page.

P2P refers to the functionality that makes the device available for connections from remote software and app through the Internet, without any port-forwarding/virtual server setting in the router.

The screenshot shows a web interface with a top navigation bar containing 'Live', 'Remote Setting' (highlighted), 'Local Setting', and 'Logout'. On the left is a sidebar menu with 'Display', 'Network' (highlighted), 'Network Setting', 'Video Streaming', 'Wireless', 'FTP', 'Email', 'RTSP', 'P2P' (highlighted), 'Alarm', 'Record', 'System', and 'Advanced'. The main content area is titled 'P2P' and includes a 'Save' button. It contains a form with the following fields:

P2P	
P2P	Enable
UUID	IOTBDD-957891-ZHDGY,IGLDUK#SZBTVG
	
Status	offline

Description

- **P2P**: enable/disable the function. Default: enabled
- **UUID**: this is the ID code that identifies univocally the devices and that has to be input in the software/app to open the connection to the camera. It is also available on the device as a QR code label.
- **Status**: "internet ready" means that the device can connect to the internet through the router, so it is available to accept connections from software/app installed on remote PC/smartphone.

8.3.3 ALARM

1) AI SETTING

Click on **【Alarm】** → **【AI Setting】** to access the following interface.

Setting Procedure

1. Enable/disable person detection (Human) and/or motion detection (Motion).
2. While holding down the left button, drag the mouse to select the person and/or motion detection area. It is also possible to choose polygonal-shaped areas (triangle, pentagon, hexagon, etc.) as shown opposite the image. It is also possible to enable individual cells by clicking on them.
3. Set the sensitivity of person and/or motion detection
4. Following a Human and/or Motion event, the following actions can be activated:
 - **Send e-mail:** send e-mail (with image attached to the e-mail)
 - **Send to FTP:** Save image to FTP server (to set FTP server see section **【Network】** → **【FTP】**)
 - **Push Notification:** Sending push notification to V-Stream app on smartphone (Attention you need to activate the notification reception also in the ALARMS menu of V-Stream app)
 - **Video on SD:** recording on local micro SD memory (not included).
 - **Snapshot on SD:** image saved on camera-mounted micro SD memory.
 - **Sound Alarm:** Activation of sound alarm on camera.
5. Click on Save to make the setting active.

2) PROGRAMMING

Click on **【Alarm】** → **【Schedule】** to access the following interface.

The screenshot shows the 'urmet' web interface. The top navigation bar includes 'Live', 'Playback', 'Remote Setting' (highlighted), 'Local Setting', and 'Logout'. The left sidebar menu includes 'Display', 'Network', 'Alarm' (selected), 'AI Setting' (highlighted), 'Sound Alarm', 'Overlay Setting', 'Record', 'System', and 'Advanced'. The main content area is titled 'Schedule' and features a 'Save' button and a dropdown menu currently set to 'User_Defined'. Below this is a scheduling grid with days of the week (Sun. to Sat.) on the vertical axis and time slots (00, 02, 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 00) on the horizontal axis. The grid cells are green, indicating the alarm is enabled for all days and times. At the bottom of the grid are 'Clear' and 'All' buttons.

Schedule: in this page it is possible to program when the alarm must be activated (All Day, User_defined). When **【User_defined】** is selected, holding the left button pressed, drag the mouse to select the programming periods. Single cells can be enabled by clicking on each of them. By clicking on each weekday's name, the whole day line is enabled/disabled.

Press **Save** to save the changes.

3) SOUND ALARM

Click on **【Alarm】** → **【Sound Alarm】** to access the following interface.

The screenshot shows the 'urmet' web interface. The top navigation bar includes 'Live', 'Playback', 'Remote Setting' (highlighted), 'Local Setting', and 'Logout'. The left sidebar menu includes 'Display', 'Network', 'Alarm' (selected), 'AI Setting', 'Sound Alarm' (highlighted), 'Overlay Setting', 'Record', 'System', and 'Advanced'. The main content area is titled 'Sound Alarm' and features a 'Save' button. Below this are three settings: 'Sound Alarm' with a dropdown menu set to 'Enable', 'Sound type' with a dropdown menu set to 'Dog', and 'Duration' with a dropdown menu set to '5s'.

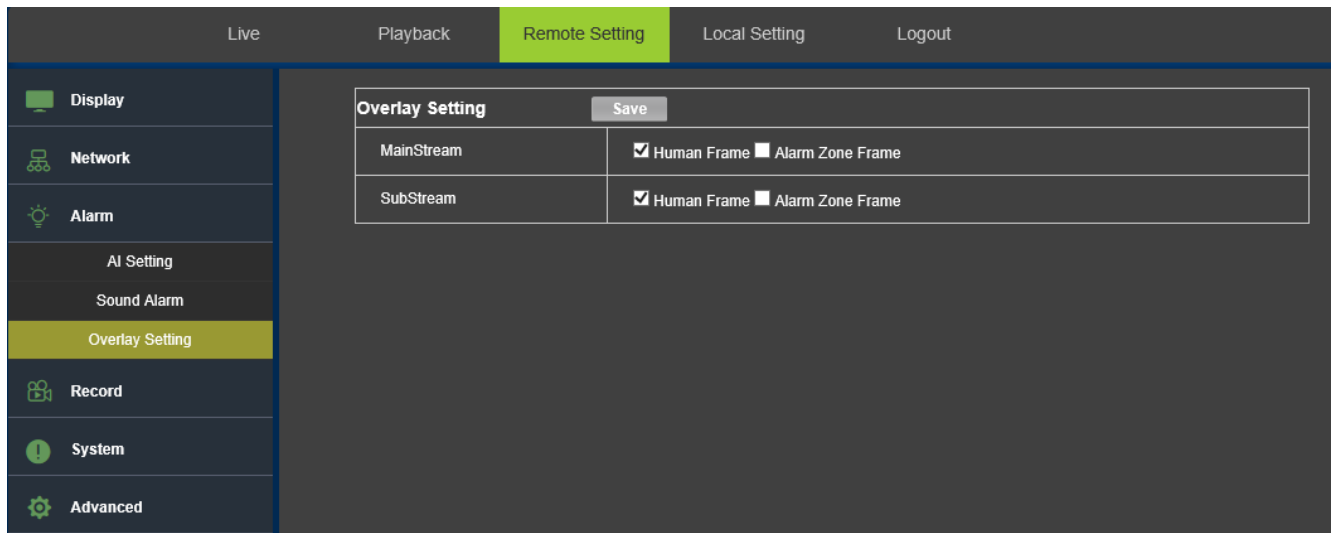
Setting procedure:

1. Enable or disable the camera's Sound Alarm
2. **Sound Type:** Choose the sound type for the sound alarm from Siren, Dog and Set on App.
3. **Duration:** Set the duration of the sound alarm. You can choose between 5s, 10s, 20s and 30s.

Press **Save** to save the changes.

4) OVERLAY SETTING

Click on **【Alarm】** → **【Overlay Setting】** to access the following interface.



Overlay Setting		Save
MainStream	☒ Human Frame ☐ Alarm Zone Frame	
SubStream	☒ Human Frame ☐ Alarm Zone Frame	

Main Stream: if the boxes are ticked, this enables the display of video analysis lines on identified persons and/or areas enabled on the main video stream (Main Stream).

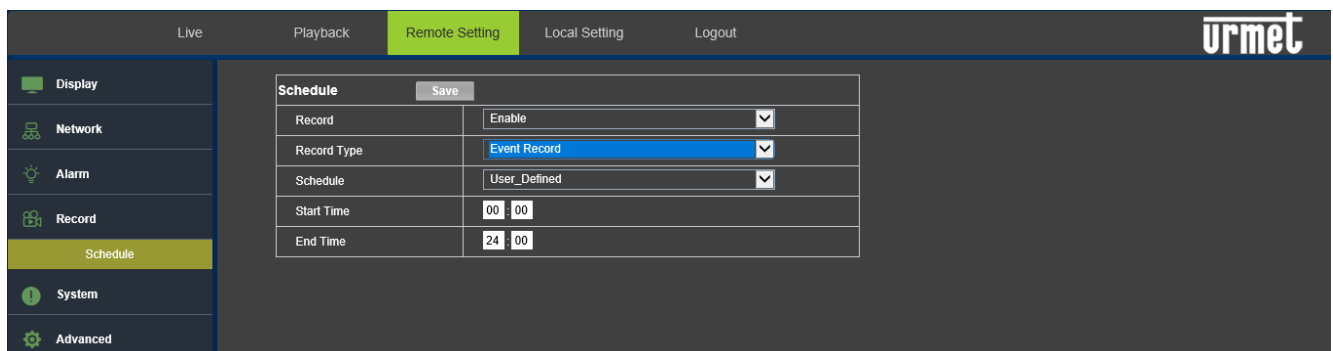
Sub Stream: if the boxes are ticked, it enables the display of video analysis lines on identified persons and/or enabled areas on the secondary video stream (Sub Stream).

Press **Save** to save changes.

8.3.4 RECORD

Click on **【Record】** → **【Schedule】** to access the following page.

In this page it is possible to set the weekly schedule of video recording function on the SD memory card.



Schedule		Save
Record	Enable	
Record Type	Event Record	
Schedule	User_Defined	
Start Time	00 : 00	
End Time	24 : 00	

Record: video recording can be enabled.

Record Type: You can choose between Event Record or Continuous Record.

Schedule: It is also possible to schedule the type of recording by choosing between Only Daytime, One Day, User Defined and the time slots in which the recording is to be active.

Start Time: You define the start time of the recording.

End Time: You define the end time of the recording.

Press **Save** to save the changes.

※IMPORTANT NOTE:

It is possible to activate manually the recording of a single file using the http command:

http://IP/Record/HttpEvent/Call

Description:

- IP: to be replaced with the actual IP address of the device

The Manual recording is executed also if the Record Schedule is disable.

※IMPORTANT NOTE:

No matter the record type (Normal, Event, Manual) each footage is finalized and saved to the memory once the file has attained the size of around 7MB.

8.3.5 SYSTEM

The System menu contains the following items: 【Date/Time】 , 【Users】 , 【Info】 and 【Log】 . The respective interfaces and descriptions are shown below.

1) DATE/TIME SETTING

Click on 【System】 → 【Date/Time】 to access the following interface.

PARAMETERS: the Device Name can be changed here.

The screenshot shows the 'Remote Setting' interface with the 'Parameters' tab selected. The left sidebar contains a menu with 'Date/Time' highlighted. The main content area has a 'Parameters' section with a 'Device Name' field containing 'IPC_3MP'. There are 'Save' and 'Default' buttons.

Parameters	Date/time	DST
Parameters		
Save Default		
Device Name	IPC_3MP	

DATE/TIME: this user interface can be used to set the date and time, including System Time, NTP, Date Format and Time Format. After having made the setting, click on Save.

The screenshot shows the 'Remote Setting' interface with the 'Date/time' tab selected. The left sidebar contains a menu with 'Date/Time' highlighted. The main content area has a 'Date/time' section with fields for 'Date format' (DD/MM/YY), 'Time format' (24hour), 'Device date time' (13-01-2023 06:33:02), 'Enable NTP' (checked), 'Time zone' (GMT +01:00), and 'NTP Server' (pool.ntp.org). There is a 'Sync with PC date time' button.

Parameters	Date/time	DST
Date/time		
Save Default		
Date format	DD/MM/YY	
Time format	24hour	
Device date time	13-01-2023 06:33:02	
Sync with PC date time		
Enable NTP ☒		
Time zone	GMT +01:00	
NTP Server	pool.ntp.org	

The device sets to the automatic time synchronisation function:

- **NTP:** Synchronise time with the NTP server on the Internet. Click on NTP to enable the NTP setting. Enter the NTP server address, select the time zone and click on Save. The system will automatically synchronise the time with the NTP server.
- **Synchronize with computer time:** this assigns the date/time indicated on the personal computer to the device.

DST: enable/disable the DST (daylight saving time) function. The device set the time according to the Time Offset and the set period of year.

Live
Playback
Remote Setting
Local Setting
Logout

Display
Network
Alarm
Record
System
Date/Time
Users
Info
Advanced

Parameters
Date/time
DST

DST
Save
Default

Enable DST ☒

Daylight Saving Time Mode
Week

Time Offset
1Hour

Start Time
Mar.
The last
Sun.
02 : 00 : 00

End Time
Oct.
The last
Sun.
03 : 00 : 00

2) USERS

Click on 【System】 → 【Users】 to access the following interface.

Live
Playback
Remote Setting
Local Setting
Logout

Display
Network
Alarm
Record
System
Date/Time
Users
Info
Advanced

Users
Save

NO.	User Name	Active
1	admin	Enable
2	user1	Disable
3	user2	Disable
4	user3	Disable
5	user4	Disable
6	user5	Disable

User Name: admin

Pass Word:

Active: Enable

New users can be created, activated and deactivated and the password can managed here.

3) INFO

Click on **【System】** → **【Info】** to access the following interface.

The screenshot shows the 'Remote Setting' interface with the 'Basic Info' section expanded. The left sidebar contains icons for Display, Network, Alarm, Record, System, Date/Time, Users, Info (highlighted), and Advanced. The top navigation bar includes Live, Playback, Remote Setting (highlighted), Local Setting, and Logout.

Basic Info	
Device Name	IPC_3MP
Device Model	1099/214B
Device Serial Number	I20AE151C31FA042208C62B
Hardware Version	0.1.0-20201103
Software Version	1.8.2-20230110URM
Webware Version	1.5.2-20221202
Video Input Number	1
SD Card status	No card

When an SD memory card is plugged into the camera's slot, it is possible:

- To read the information about total and available memory space
- To format the memory card by pushing the button **Format SD Card as fat32**
- To browse the memory card's content by pushing the button **Browser SD Card**. This operation leads to the camera's page:

The screenshot shows the 'Remote Setting' interface with the 'File List' section expanded. The left sidebar is the same as the previous screenshot. The top navigation bar is also the same.

File List Search

File type: Video file (dropdown menu)

BeginTime: 2019-10-02 14:00:00

EndTime: 2019-10-03 14:59:59

No.	File name	Size(KB)	BeginTime	EndTime	Download
No File List					

Pre 1 Next

Select **File Type** -> **【Video file】** to list video recordings or **File Type** -> **【Image File】** to list the snapshots, then select Begin Time and End Time to set the time interval, then press the button **Search** to execute the search files (**M** at the beginning of the file's name stands for Motion Event video, **T** at the beginning of the file's name stands for Normal Schedule video, **H** at the beginning of the file's name stands for Manually Recorded video through http command):

Live
Playback
Remote Setting
Local Setting
Logout

Display
Network
Alarm
Record
System
Date/Time
Users
Info
Advanced

File List

Search

File type
Video file

BeginTime
2019-10-01
14 : 00 : 00

EndTime
2019-10-01
14 : 59 : 59

No.	File name	Size(KB)	BeginTime	EndTime	Download
1	T_20191001143735.prv	6971	2019-10-01 14:37:35	2019-10-01 14:37:39	Down
2	T_20191001143732.prv	6958	2019-10-01 14:37:32	2019-10-01 14:38:57	Down
3	T_20191001143624.prv	6956	2019-10-01 14:36:24	2019-10-01 14:36:24	Down
4	T_20191001143448.prv	6991	2019-10-01 14:34:48	2019-10-01 14:36:24	Down
5	T_20191001143312.prv	6922	2019-10-01 14:33:12	2019-10-01 14:34:48	Down
6	T_20191001143135.prv	6993	2019-10-01 14:31:35	2019-10-01 14:33:12	Down
7	T_20191001142959.prv	6912	2019-10-01 14:29:59	2019-10-01 14:31:35	Down
8	T_20191001142823.prv	6914	2019-10-01 14:28:23	2019-10-01 14:29:59	Down
9	T_20191001142714.prv	6984	2019-10-01 14:27:14	2019-10-01 14:28:23	Down
10	T_20191001142549.prv	6913	2019-10-01 14:25:49	2019-10-01 14:27:14	Down
11	T_20191001142440.prv	6912	2019-10-01 14:24:40	2019-10-01 14:25:49	Down
12	T_20191001142305.prv	6921	2019-10-01 14:23:05	2019-10-01 14:24:40	Down

8.3.6 ADVANCED

The options are present: 【Audio Setting】 , 【Snapshot Setting】 , 【Periodic Capture】 , 【Firmware Update】 , 【Load Default】 , and 【Maintenance】 as shown in the figure below.

1) Audio Setting

Microphone and audio input sound settings.

Live
Playback
Remote Setting
Local Setting
Logout

Display
Network
Alarm
Record
System
Advanced
Audio Setting
Time Capture
Firmware Update
Load Default
Maintain

Audio Setting

Save

Audio type
MIC

Audio-in codec
G.711U

Input volume
70

Output volume
95

- **Audio Type:** you can choose the type of audio.
- **Audio Codec:** The managed audio codec is the G711U.
- **Input Volume:** Set the input audio volume.
- **Output volume:** Set the output audio volume.

Press **Save** to save changes.

2) Time Capture

The following settings refer to periodic saving of images on local micro SD memory or FTP server.

Time Capture		Save
Save images to SD card	Disable	
Save image to SD card interval	10	(10~86400s)
Save images to FTP	Disable	
Save image to FTP interval	10	(10~86400s)

5) Firmware upgrade

Click on **Advanced** → **Firmware Update** to access the following interface.

Live	Playback	Remote Setting	Local Setting	Logout
Display Network Alarm Record System Advanced SnapShot Setting Time Capture Firmware Update Load Default Maintain				
Firmware Update Upgrade file path Scan... Upgrade				

In the **"Firmware Update"**, the user can click on "Scan" to select the update file; click on Upgrade to update the system automatically. If the update file does not correspond to the device, the update will not be performed.

Note: The firmware update procedure will last approximately 5 minutes. Do not interrupt the power supply or disconnect from the network during the update.

6) Load Default

Click on **【Advanced】** → **【Load Default】** to access the following interface.

The screenshot shows the 'Remote Setting' menu with 'Load Default' selected. The interface has a top navigation bar with 'Live', 'Playback', 'Remote Setting' (highlighted), 'Local Setting', and 'Logout'. A left sidebar contains icons for 'Display', 'Network', 'Alarm', 'Record', 'System', and 'Advanced'. Below 'Advanced' are links for 'SnapShot Setting', 'Time Capture', 'Firmware Update', 'Load Default' (highlighted), and 'Maintain'. The main content area is titled 'Load Default' and contains three radio button options: 'Reset Factory settings(Except: Network Parameter(LAN and WIFI) / User Password / NTP / DST / Channel Name)', 'Full Reset Factory settings', and 'Reboot'. A 'Save' button is located at the top right of the options.

Select “**Reset factory settings**” and press the **Save** button to restore all default setting except for: network parameters (LAN and Wireless), user Password, NTP, DST, channel name.

Select “**Full Reset factory settings**” and press the button **Save** to restore the factory default settings.

Click on “**Reboot**” and press the button **Save** to restart the device.

7) Maintenance

Click on **【Advanced】** → **【Maintain】** to access the following interface.

The screenshot shows the 'Remote Setting' menu with 'Maintain' selected. The interface has a top navigation bar with 'Live', 'Playback', 'Remote Setting' (highlighted), 'Local Setting', and 'Logout'. A left sidebar contains icons for 'Display', 'Network', 'Alarm', 'Record', 'System', and 'Advanced'. Below 'Advanced' are links for 'Audio Setting', 'Time Capture', 'Firmware Update', 'Load Default', and 'Maintain' (highlighted). The main content area is titled 'Maintain' and contains three settings: 'Auto Reboot' with a dropdown menu set to 'Enable', 'Reboot Mode' with a dropdown menu set to 'Once', and 'Time Plan' with a date field set to '2023-1-26' and two time fields set to '23' and '23'. A 'Save' button is located at the top right of the settings.

- **Auto Reboot:** enable/disable automatic restart of the device according to the indicated time programming.
- **Auto Reboot:** Select one of the three options Everyday, Everyweek, Once.
- **Week plan:** Select the days of the week on which to start automatic reboot.
- **Time plan:** Select the day and the time on which to start automatic reboot.

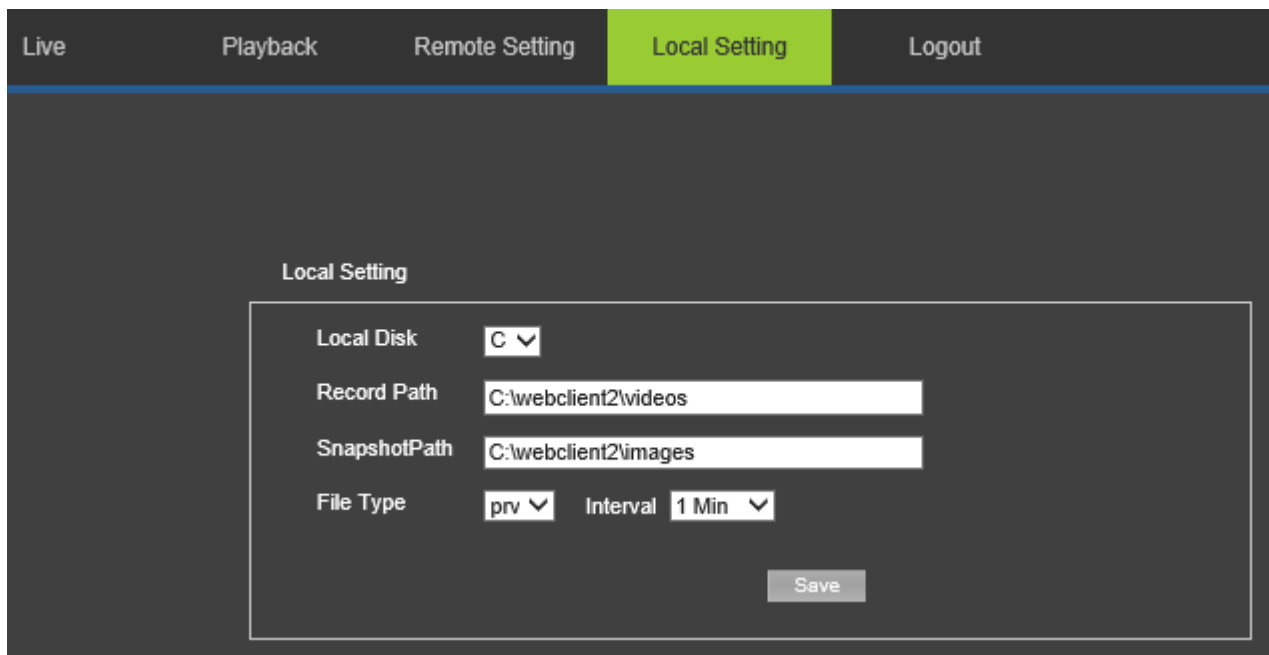
IMPORTANT: the reboot might cause the loss of some minutes of recording.

IMPORTANT: if the camera is in a dark environment, it might take up to 20 seconds to restore the correct black and white picture (i.e. Night Mode) after the reboot.

8.4 LOCAL SETTINGS

Click on “**Local Setting**” to view the following dialogue window.

The user can set Local Disk, Record Path, Snapshot path, file type and Interval for recording and manual snapshot capturing.



The screenshot shows a web interface with a top navigation bar containing five tabs: "Live", "Playback", "Remote Setting", "Local Setting" (which is highlighted in green), and "Logout". Below the navigation bar, the "Local Setting" dialog box is displayed. It has a title "Local Setting" and contains the following fields:

- Local Disk:** A dropdown menu showing "C" with a downward arrow.
- Record Path:** A text input field containing "C:\webclient2\videos".
- SnapshotPath:** A text input field containing "C:\webclient2\images".
- File Type:** A dropdown menu showing "prv" with a downward arrow.
- Interval:** A dropdown menu showing "1 Min" with a downward arrow.

A "Save" button is located at the bottom right of the dialog box.

IMPORTANT: to make the local settings effective, especially to create the Record and Snapshot Path folders and to save Record Files and Snapshots, IE has to be executed with Windows Administrator privileges.

IMPORTANT: files that are recorded using IE and saved in the PC local folder have .264 format. To play these files it is necessary to use the corresponding Video Player software available on the website www.urmet.it.

8.5 OUTPUT

Click on **Logout** to close the web interface of the IP camera:



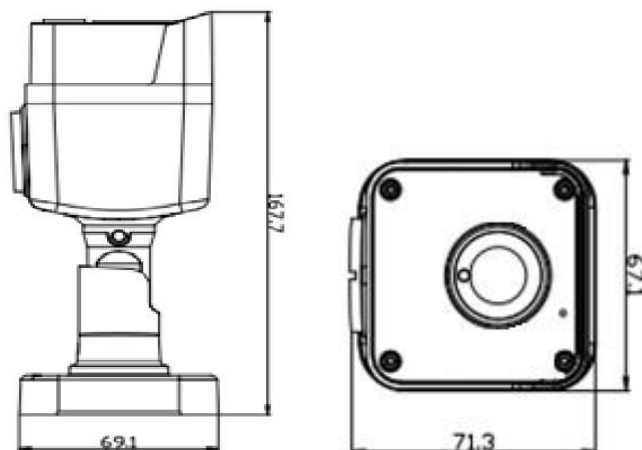
9 TECHNICAL SPECIFICATIONS

GENERAL DATA	1099/214B	1099/216B
Max absorption	Typ: 170mA(D), 450mA(N). Peak 470mA (when IR CUT moves D/N).	
Power supply	12 Vdc / PoE	
Dimensions (L x H x D)	167*66.55*70.5mm	189*76*68mm
Weight (g)	470g	650g
Type of housing	Bullet	
Housing color	Black and White	
Operating conditions	-20°C~+55°C , <95%RH	
Protection class	IP66	
Video Format	Adaptive control P/N	
MAIN FEATURES		
Camera sensor	1/2,9 CMOS Sensor 3MP format 16/9	
Camera lens	Fixed lens 2.8mm, F 2.0	Motorized varifocal 2.8-12mm, F1.6
Field of vision (horizontal)	H100.9°	W H118° T H37°
Electronic shutter (s)	1/25 ~ 1/10.000s	
Sensitivity (lux)	0.1Lux@(F1.2,AGC ON), 0 Lux with IR Cut	
IR filter	Mechanical with auto switch	
Video resolution (H x V)	3MP (2304x1296)	
Video compression rate	135Kbps – 2048kbps (Default VBR)	
SOFTWARE/FIRMWARE FEATURES		
Video compression	H.265, H.264, MJPEG	
Frame-rate	Mainstream 2304x1296@15fps 1920x1080@20fps 1280x720@25fps Substream 640x360@25fps	
Supported protocols	HTTP, TCP/IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, FTP	
WiFi	802.11 b/g/n	
WiFi frequency	2.4GHz~2.4835GHz	
Security	64/128-bit WEP [non supportato], WPA/WPA2, WPA-PSK/WPA2-PSK	
Web/Client/ Mobile	Multi browser (Internet Explorer, Edge, Chrome, Safari, Firefox, Opera) Mobile Software (iOS, Android)	
FUNCTIONS		
Image setting	Adjustment of: brightness, sharpness, contrast, saturation, via web page, smartphone App, HVR/NVR	
Motion detection (zone)	YES	
Human detection (zone)	YES	
Video analysis	Motion detection/Human detection	
DNR control	3D DNR	
Backlight compensation	BLC / D-WDR	
Day&Night Mode	YES	
WiFi antenna	External	
Audio	Integrated microphone and loudspeaker	
Audio Codec	G.711U	
Audio Output	8Ω/max. 1.5W (speaker)	
Max N. Stream / PC access	2 Mainstream + 2 Substream	

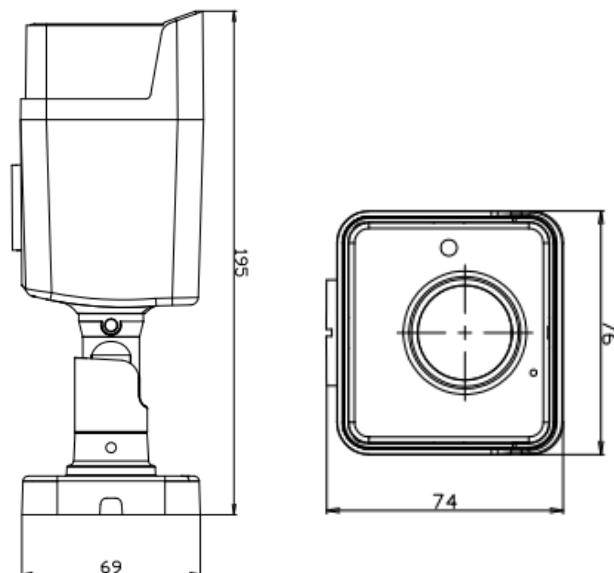
HARDWARE FEATURES

No. of IR LEDs / Lighting distance (m)	2 EX LED 850nm (25 m – 30m)
Micro-SD card slot (card not included)	YES, Max 128GB
LAN type	RJ45 10M / 100M Ethernet
Connector	RJ45 waterproof

1099/214B



1099/216B



10.1 FAQ

◆ IE does not load or install the plug-ins.

1. Possible cause: The IE protection setting is too high.
Solution: Set IE protection to minimum level.

◆ After updating, the user cannot inspect the IP camera using IE.

1. Solution: Flush the IE cache. Specific operations: Select the IE Tools menu, select Internet Options, click on Delete file on the 2nd option (Temporary Internet files), click on Delete all offline contents and click on OK. Connect to the IP camera again.

◆ Why can't I inspect the IP camera using IE?

1. Possible cause 1: Network error or fault.
Solution: Connect the PC to the Internet and check that it accesses the network correctly. Check for wiring or network problems caused by virus on the PC by pinging the PC.
2. Possible cause 2: The IP address is occupied by other devices.
Solution: Disconnect the IP camera from the network, connect it to the PC and set the IP address of the device.
3. Possible cause 3: The IP address relates to a different subnetwork.
Solution: Check IP address settings, subnetwork mask and gateway.
4. Possible cause 4: The physical address of the network is conflicting with the IP camera.
Solution: Change the physical address of the IP camera.
5. Possible cause 5: The web port has changed.
Solution: Contact the network manager to obtain the corresponding information on the port.

◆ I cannot see the remote device video on the PC

1. Solution: Check that the IP camera video can be normally displayed in IE, that the device can be searched using the PC software and that the parameters of the device on the PC client are set correctly.

DS1099-160

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