RJ Series IP Cameras

Speed Dome of ONVIF IP network

Installation and Configuration

How to connect the camera How to make the connection in the network How to configure the camera

Contents of this handbook

The range of cameras and RJ RK series is a range of IP cameras for network connection developed for use with NVRs.

This manual explains how to connect the camera, how to make the basic adjustments and how to configure the parameters for the network connection.

Introduction

The DSE speed dome IP cameras RJ series of IP network cameras with H.264 compression at full resolution **FULLHD 1080P 1920x1080** pixels. These cameras "NUDE" that is not equipped with its recording capability on NAS and SD card nor video surveillance systems including software. They are developed to work with network video recorders NVR ONVIF ranging always provided in combination to handle the recording and remote access functions.

The units are connected to a LAN via RJ45 port as a computer or other network drives and images can be displayed on a PC using Internet Explorer browser.

The power of IP speed dome cameras RJ series is possible with the 12VDC adapter (included). the POE is not supported due to the absorption of the illuminator.

The sensing element of this array is a CMOS SONY EXMOR, a benchmark in the field, used successfully in our most IP cameras equipped (RH series).

The heart of the RJ series network cameras is the A5S66 Ambarella DSP processor that allows performance to the top of the market with advanced image control functions and Wide Dynamic Range in addition to an absolute stability of operation in the long run.

The RJ series of network equipment using H.264 compression Hi-Profile.

The RJ Series cameras fully support the ONVIF international protocol and are compatible with any IP recording software or network video recorder (NVR) multi-protocol capable of handling this standard.

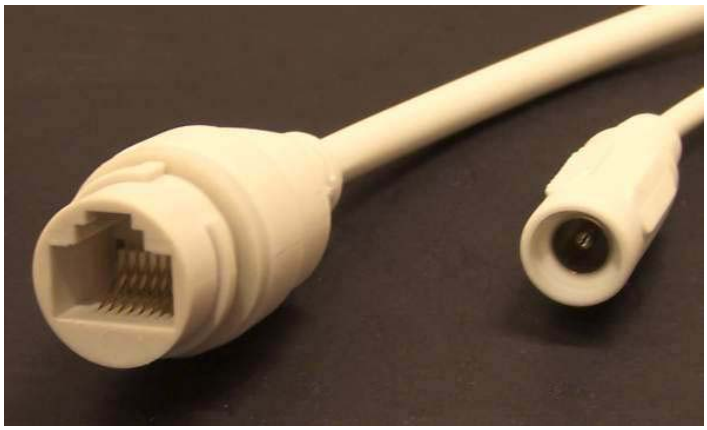
Technical data

See updated at tables: http://www.dseitalia.it/dati_telecamere_ip.htm

Installation

CONNECTIONS

The cameras speed dome series RJ have 2 sun connections: a mains socket and a 12VDC power plug,



- NETWORK PORT RJ45 - RJ45 FEMALE connector to connect the LAN. To connect to a hub or network switch using a standard LAN cable. To directly connect a single PC using a crossover cable (crossover).

- 12VDC - plug which connect the power supply 220VAC / 12VDC by at least 3A (included)

VERIFICATION OF CONNECTIONS

After connecting the camera to the power supply check that it performs an automatic rotational movement which certifies the proper nutrition. If the camera does not perform any movement check the power supply.

After connecting the network cable to the switch verified that the LEDs of the switches that correspond to the port that is used to start flashing. If you check remain off the network cable.

MOUNTING THE CAMERA

The cameras are to be fixed to the wall with the supplied mounting bracket. The connecting cord extends through the bracket.

The camera housing is watertight and can be exposed to rain. The connections must be protected from the weather.

The cable entry may be provided at the center of the bracket if the cable passage is walled. Alternatively, there is a cable entry in the bracket with tin grommet.

Network Configuration

After providing power to the camera via the 12VDC power supply and after having connected the camera to the network switch with the LAN cable, the configuration of the network parameters must proceed in such a way to be able to make the cameras accessible by computer. The cameras are supplied with **IP address 192.168.2.100 factory.**

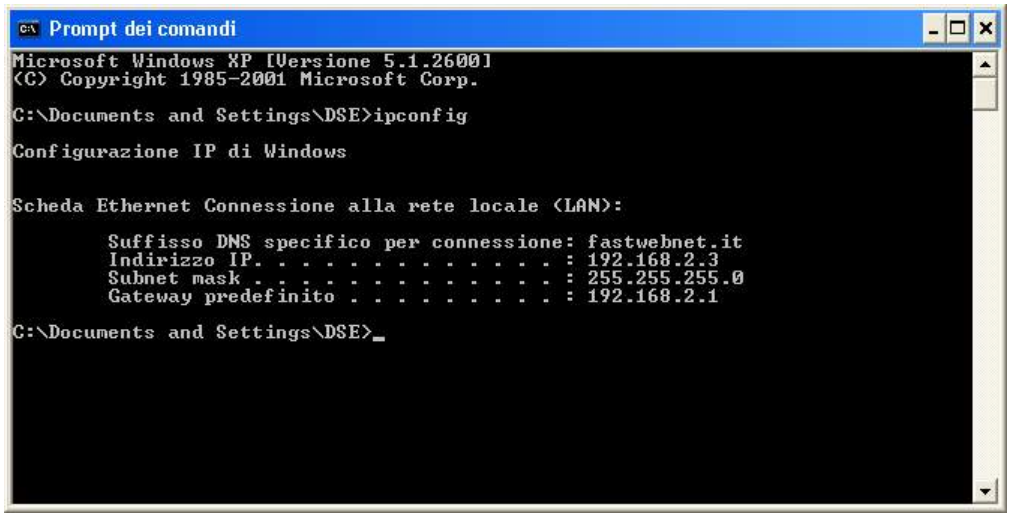
SOFTWARE IPWIZARD

The CD supplied with the camera software is included **IPWIZARD** that requires no installation and can easily be run on any PC on the network. The function of this software is to detect the presence of the camera in the network, regardless of its address, and allow you to change the camera address in order to be consistent with your network. We recall that because the camera is visible from the other PCs on the network it is necessary that the first 3 address parts are the same as other network PC and is equal also the subnet mask. And 'advisable to connect a network camera at a time, and insert new ones after you have set earlier.

PRELIMINARY CHECKS

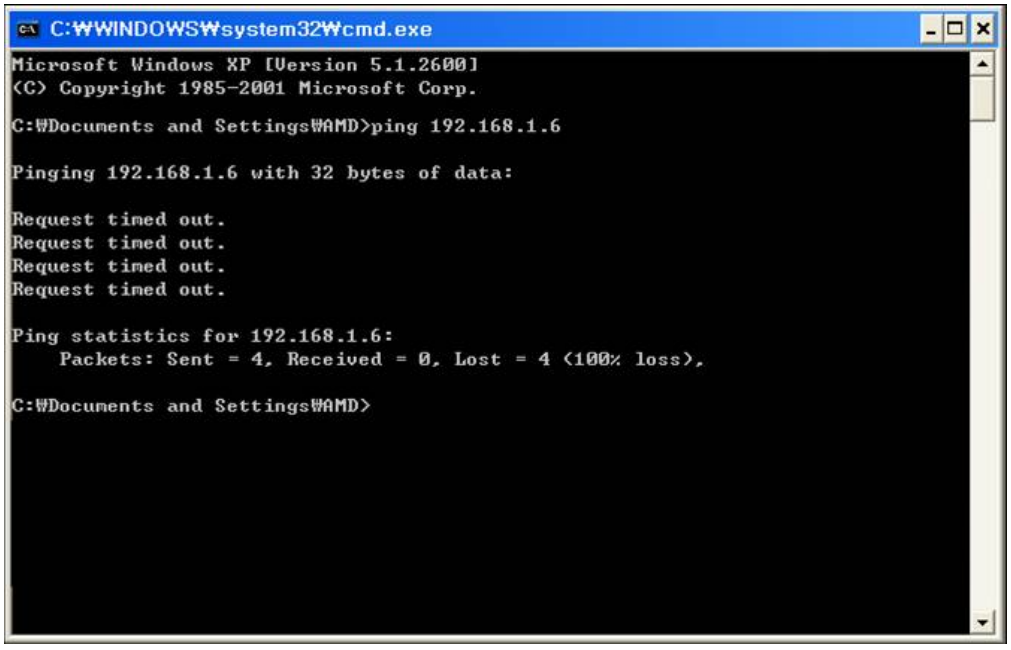
Before you must obtain from your network some information about the management of the IP addresses used on your network. E 'need to know an IP address can be assigned to the camera that is not equal to any other device already present in the network. If you are uncertain about the operation of your network, you can use certain commands in DOS PROMPT.

On a network PC launched a DOS window available between the Windows accessory programs. Type IPCONFIG at the command prompt and press ENTER. They will see the TCP / IP parameters. The second line is the IP address assigned to your computer.



In the above example the address of the PC on which you are working is 192.168.2.3 and the subnet mask used is the classic 255.255.255.0. The camera can therefore assign an address chosen by the 192.168.2.XXX type, where XXX stands for a number between 0 and 255. E '

important **choose an address that is not already used by other devices** of network. To verify that the chosen address is free, try to make a PING from the same DOS window by typing PING followed by a space and by the IP you wish to assign to the camera. If there is no device responds to that address, you will receive 4 REQUEST TIME OUT as in the following example:

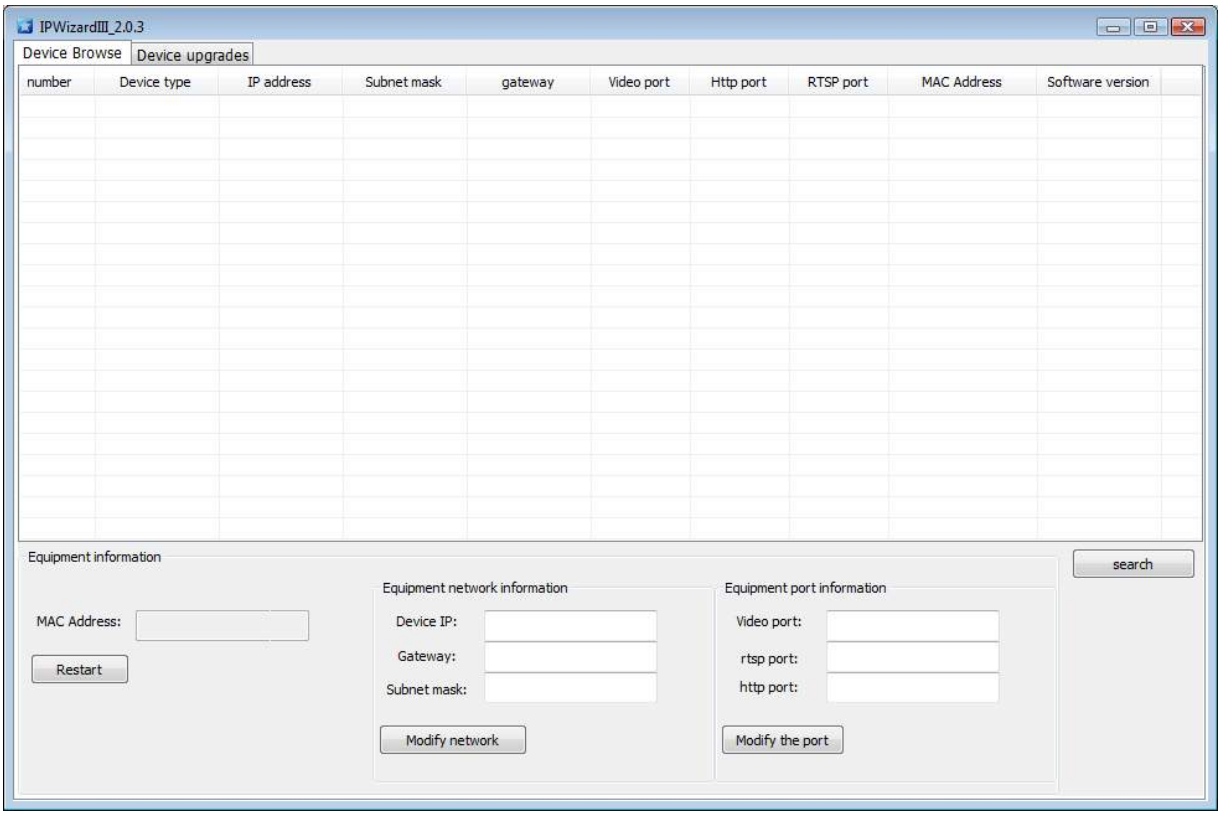


All cameras support the automatic IP address assignment from a DHCP server. This mode, however, is not recommended because in the event of power failure or restart of the equipment it is possible that the cameras IP address change necessitating a reconfiguration of the NVR.

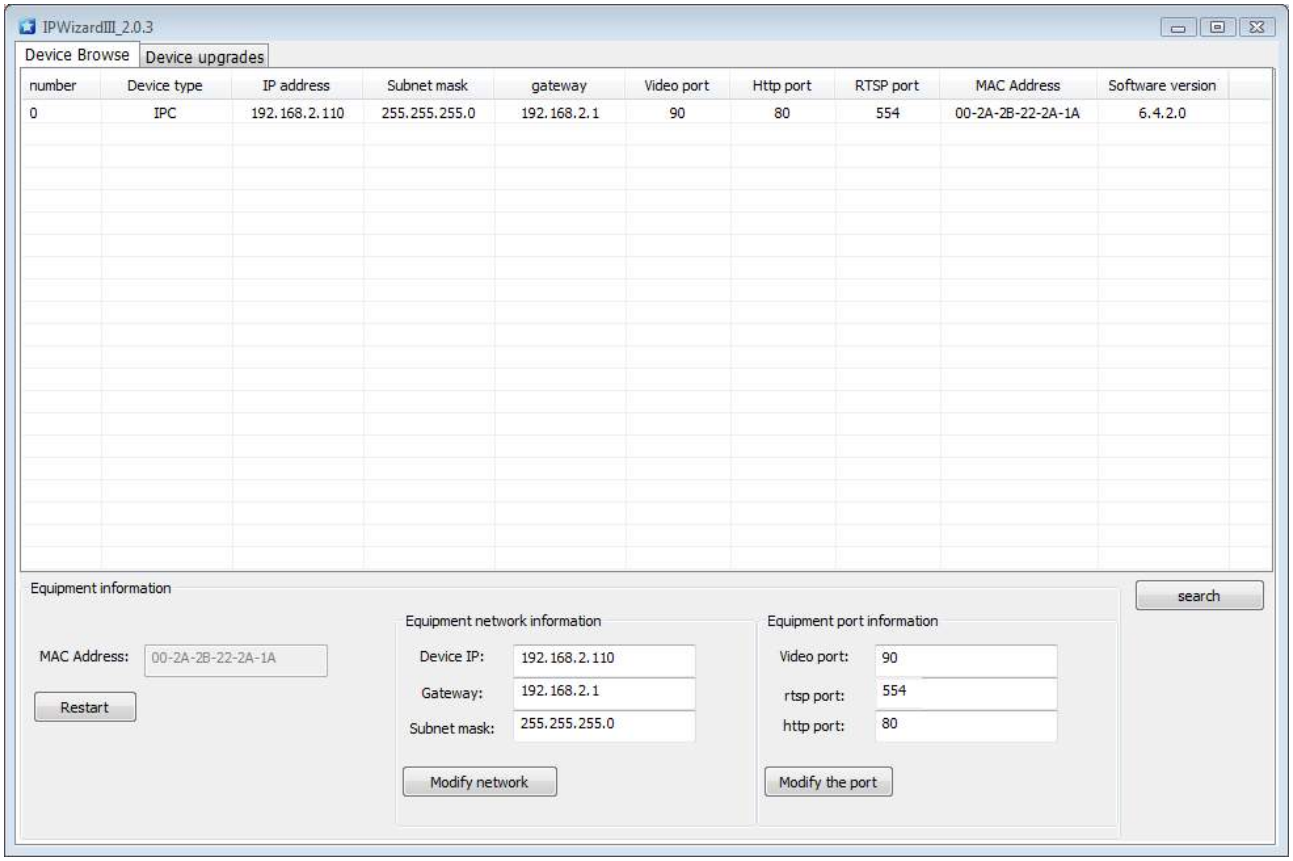
IPWIZARD OF USE TO ASSIGN IP ADDRESS

After connecting the camera you need to change the address of the camera to assign one consistent with its own network (first 3 parts of the address common to all network equipment). Proceed as follows:

1. Insert the CD into a PC player and explore the content. You will find a file named IPWIZARD. IP WIZARD does not require installation. E 'can copy the file to a USB key to easily run the program on any PC on the network. Double-click the icon and it will launch the program.



2. Click on the SEARCH button. The program will start to search for the IP cameras RK series present in the network. Wait to complete the search. IPCSEARCH is able to detect even cameras with different address class from that of the PC on which you are working.
3. When the search will see the list of detected cameras. If the camera is not It was detected check the functionality of network links. In the IP ADDRESS column shows the IP address of the camera current. Click on the camera and you'll see in the section below all other network parameters.



4. Of particular relevance are of the IP address (IP ADDRESS) which must have the same class

of the network (the first three groups of equal numbers) and the SUBNETMASK which must be the same as that used by the network (typically 255.255.255.0).

the communication ports used by the camera that agrees are also reported not change if not really necessary. You can edit the network parameters as desired by writing in the boxes. Press MODIFY or MODIFY NETWORK PORT for transferring the pattern into the camera. Wait for the camera to accept the new settings. Check, by pressing the SEARCH button, the camera is detected again with the new address.

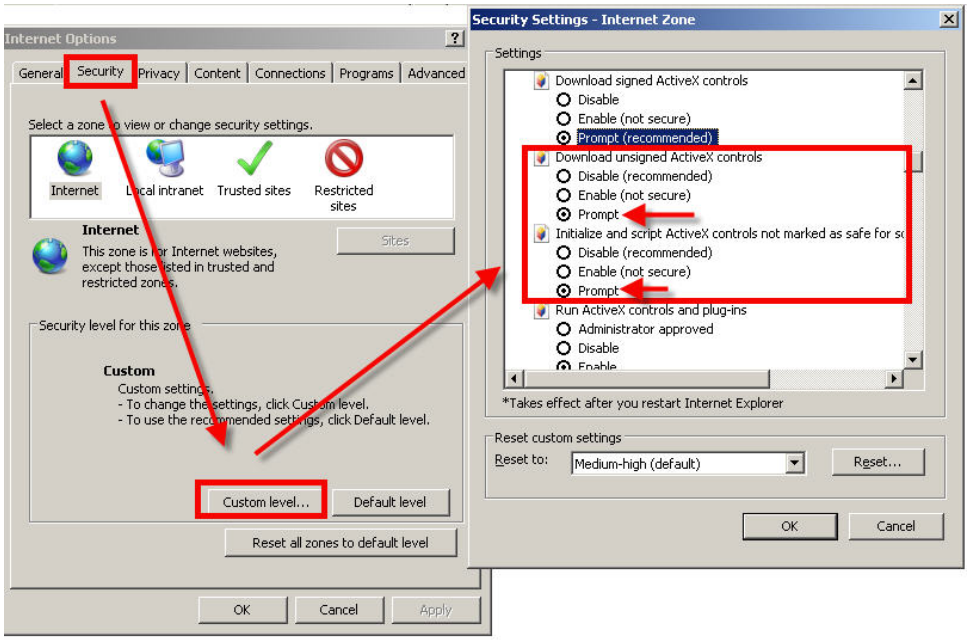
with browser access

Once properly set the network parameters, you can make the first access to the camera using the IE browser.

You can not use to access other browsers if not using the plug-in IETab which will be described later.

ENABLE PERFORMANCE OF ACTIVEX

Internet Explorer has security settings that may prevent the installation of the ActiveX component. Before making the connections necessary to enable the execution of ActiveX not marked as safe. In Internet Explorer, select TOOLS / INTERNET OPTIONS

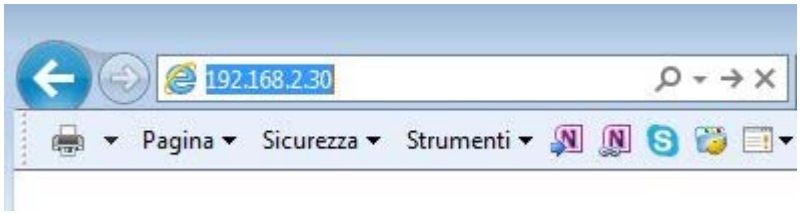


In the folder PROTECTION choose the area of interest (Internet or local network) and click CUSTOM LEVEL. Enable all items for the download and execution of ActiveX especially those NOT marked as safe. E 'can set the items either ENABLE or ASK FOR CONFIRMATION. Finally, save and restart the browser.

ACCESS WITH INTERNET EXPLORER

To access the camera using Internet Explorer, type in the address box, the IP address that you assigned. In the example below we perform a link on

internal network to the camera with IP address 192.168.2.30.



It is not necessary to specify the connection port since the cameras using factory port 80 which is the one usually used by browsers.

If for any reason you change the port to call by allowing it to IP address HTTP port then it will be necessary to specify in the browser on the camera settings. In this example we are calling the 192.168.2.30 IP on port 85.

LOG-IN

If the connection to the camera has successfully presents the log window to enter the access data

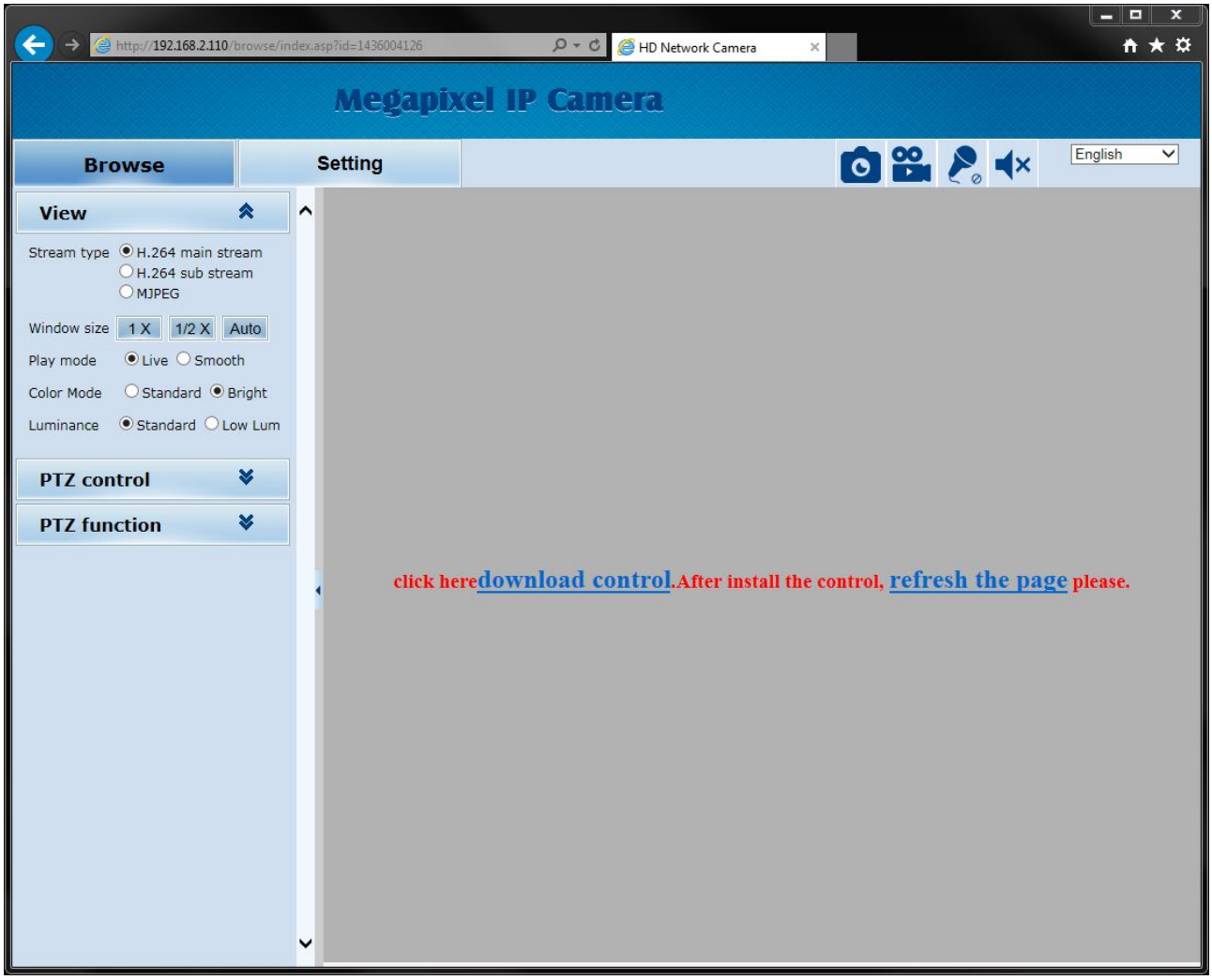
The data of the RJ Series cameras factory passwords are:

USERNAME: admin PASSWORD:

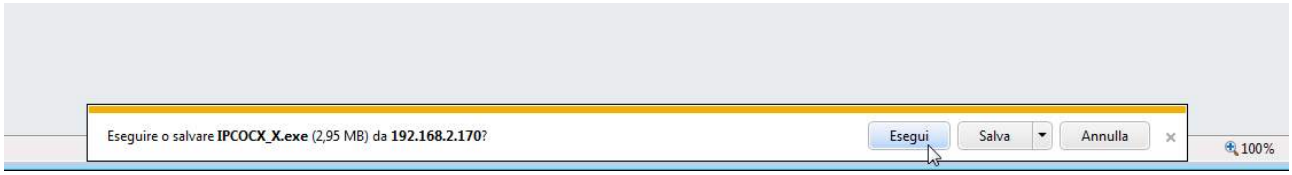
admin

INSTALLING ACTIVEX

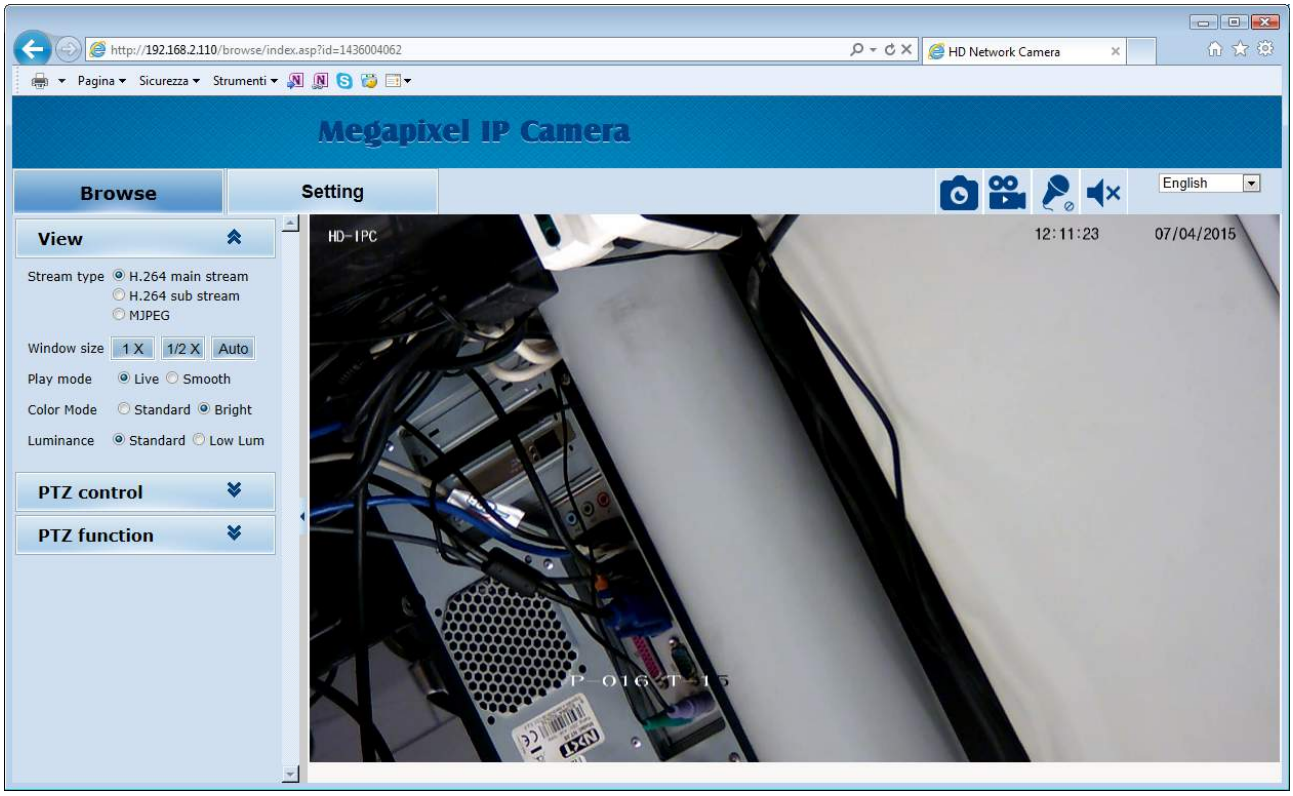
In order to make sure that the RJ series IP cameras are displayed on the browser you must install the ActiveX components. On first access you make, the camera will detect the absence of these components in your computer and will display the following window.



Click on DOWNLOAD CONTROL to download activeX components.



E 'can both run the program directly by choosing RUN to save the file on your local PC and then install it manually. Once the program is installed need to restart your browser and connect again.



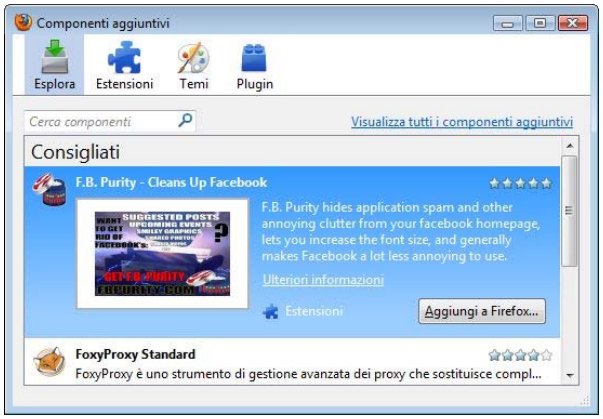
The options in the dialog are described in detail below.

ACCESS TO OTHER BROWSER

Although IE is the reference browser for remote connection you can also use other browsers such as Firefox or Google Chrome. To do this you need to install a free add-on called IE Tab V2.

The installation is performed by accessing the browser add-ons management and looking into the search box: IE Tab

Following the example with Firefox



This plugin, once installed lets you press a button to recreate in Firefox or Chrome an Internet Explorer window.

Login with ONVIF NVR

The RJ series IP cameras are cameras provided "NAKED", that is not able to independently record to SD card or NAS.

There are also accompanied by recording programs on a PC.

These cameras must be connected to a network video recorders or external recording software.

To do this you use the ONVIF standard, now at version 2.4, which fully support these cameras.

To connect cameras to NVR or software ONVIF refer to the recording equipment manuals. As a rule, NVR recognize the communication parameters to communicate with the cameras automatically.

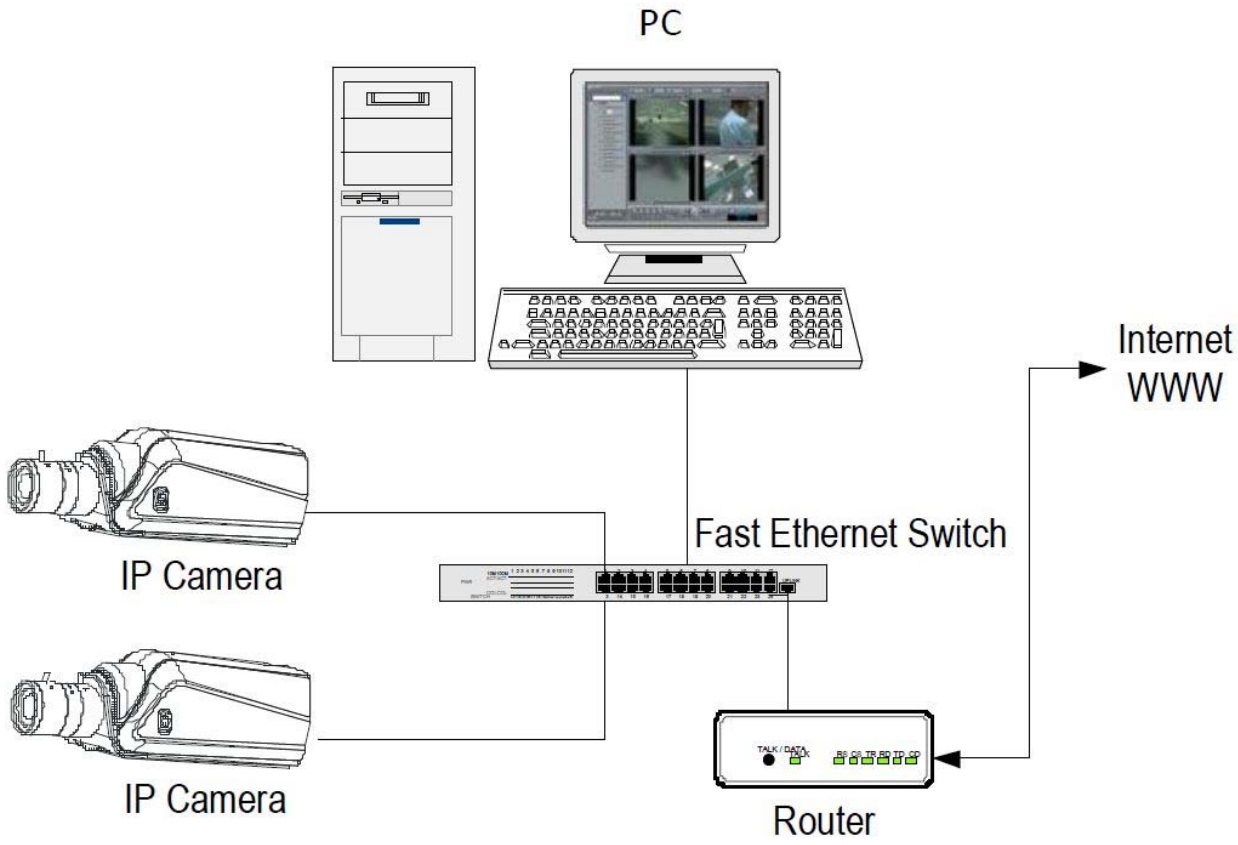
In case it is necessary the manual insertion note that the RJ series cameras use **door 8999** to dialogue with NVR on onvif protocol.

from web access router

The link to "Naked" cameras over the Internet as a rule is not made by calling individual cameras but making the NVR connection. For this type of connection is necessary to refer to the manual of NVR. E ', however, can also connect to the web directly to the cameras with the Internet Explorer browser. To do this you need to make a configuration inside the router following the directions in this chapter where we explain the mapping of the communication ports. Recall that it is possible to avoid this configuration using the P2P connection that is explained in the next chapter.

MAPPING WITH WEB ACCESS DOORS ROUTER

An installation of IP cameras is often placed inside a LAN connected to the Internet via a router as in the following scheme



If we use for viewing the cameras internal PC to the network, the addresses of the cameras (usually the 192.168.XXX.XXX type) are directly accessible. If you wish

connect via the Internet using a PC placed elsewhere, the internal network addresses will no longer be reached directly, because the only IP address visible from the web will be what our router will by its WAN side that is towards the outside world Internet.

This address is assigned by the provider (ISP). And 'advisable to get from the provider a fixed address each time you connect. If there is a chance you need to use DDNS services (see configuration manual).

It is not sufficient, however, type in the browser the IP address of the WAN side Router to connect to the cameras. The router acts as a filter and drops every external call that a call from within the network is not paid before. In order to connect the cameras it is therefore necessary to insert inside the router ports of directing instructions which, depending on the router manufacturers are called NAT, PORT FORWARDING, PORT MAPPING etc.

In practice, access the router configuration and insert instructions so that this direct calls coming from outside, to the inside IP address of the cameras. Obviously the directing is only performed for the communication ports that are used by the cameras and that will be detailed below.

The communication ports used by RJ Series cameras are as follows:

- **HTTP PORT:** Default 80. The cameras use this port to communicate with browsers like IE. Browsers such as Internet Explorer use the factory port 80 for communication. For example, if we type in the bar browser address: http://212.12.34.201 will be called the IP address 212.12.34.201 on port 80. If in the configuration of the camera is set to a different HTTP port (eg. 81, 82, etc.) it needs to be clarified in the browser which port to use for the named after pointing the address with ":" to separate it. If, for example. http://212.12.34.201:81 we type will be called the IP address 212.12.34.201 port 81.

- **VIDEO PORT:** Default 90. The cameras use this port for sending video streaming

- **PORT RTSP:** By default 554. E 'used by the camera to send the RTSP video clients such as VLC, Real Player etc ..

- **PORT ONVIF:** Default 8999. E 'used by the camera for connecting to NVR and ONVIF recording software.

If behind the router counts more than one camera and you want to reach them individually from the outside you must be assigned to each of them a different http port. For example 80,81,82 doors etc.

In the NAT router settings you will have the direction of each door towards the inside address of the own camera.

Note that many routers require that each directing NAT is also combined with a rule in the firewall section that determines the opening of the affected port. Consult your router's manual for details on how to program the port mapping

Mobile access with CLOUD

The link to "Naked" cameras over the Internet as a rule do not run directly by calling individual cameras but making the NVR connection. For this type of connection is necessary to refer to the manual of NVR.

And yet you can also connect directly to the cameras with the Internet Explorer browser as seen in the previous chapter.

E 'can also connect directly to the camera with a smartphone or tablet using the applications for Android or IOS.

To simplify this link through the Internet, even without a static IP and no port configuration of the router, the cameras are equipped with a cloud server support.

Each user of an RJ Series camera acquires along with it the opportunity to enjoy free use of a CLOUD service to its online service to make simple connection via the Internet.

This service can solve with a few passing the two main problems in connecting the Internet to the DVR, ie:

- **Signing of a DDNS service if you do not have a fixed IP Internet**
- **Mapping of router ports**

The APP to be used for connecting to the cloud via RJ series cameras is called:

iCAM8 for ANDROID systems

IOTP2PCAM for iOS systems

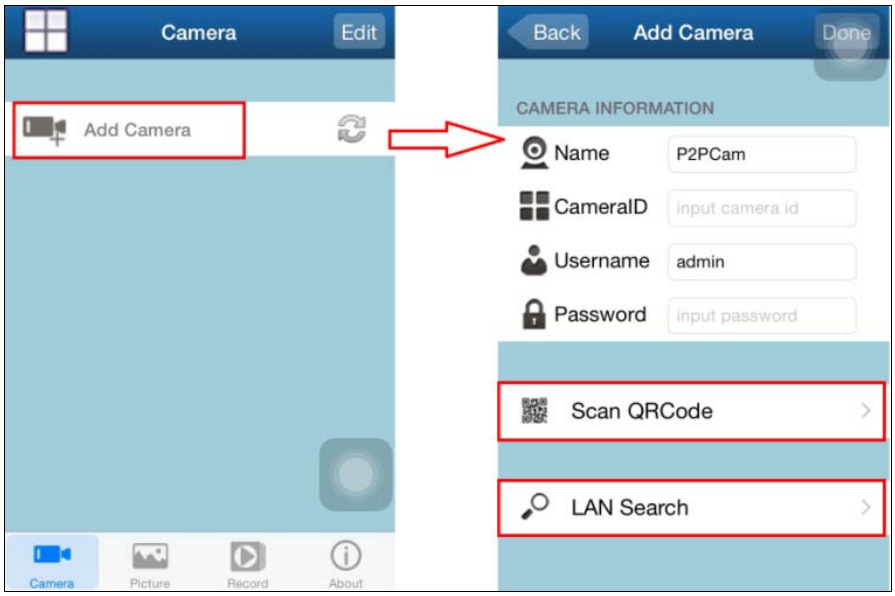
E 'can download free applications from GOOGLE PLAY STORE and APP. After intallato the application, execute and proceed as follows

ADD THE CAMERA

And 'possible to add the camera to the program in two ways: 1 - Researching the camera to the

local network 2 - By scanning the QR code on the camera

The first method can be used only if the mobile device is connected to the local network via wifi. The second only if we can bring the camera to scan the small sticker with qr code which is applied on the dome.



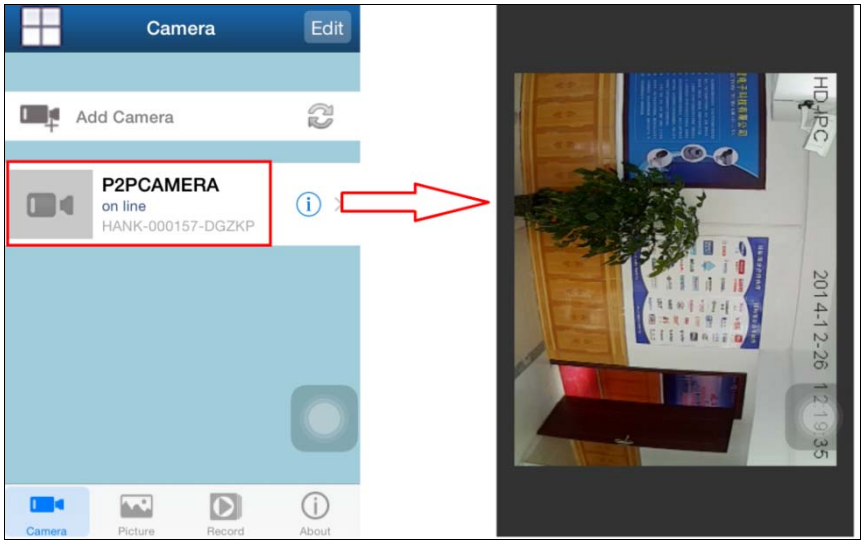
Once you have found the camera CAMERA ID field will be filled automatically. E 'can inseriree a custom camera name and must obviously complete the login credentials (admin / admin Factory).

E 'can also enter in the camera CAMERA ID identifier that can be read in the settings of the same NETWORK / PPCN section, but generally do not need this if you use the two quickest methods described above.

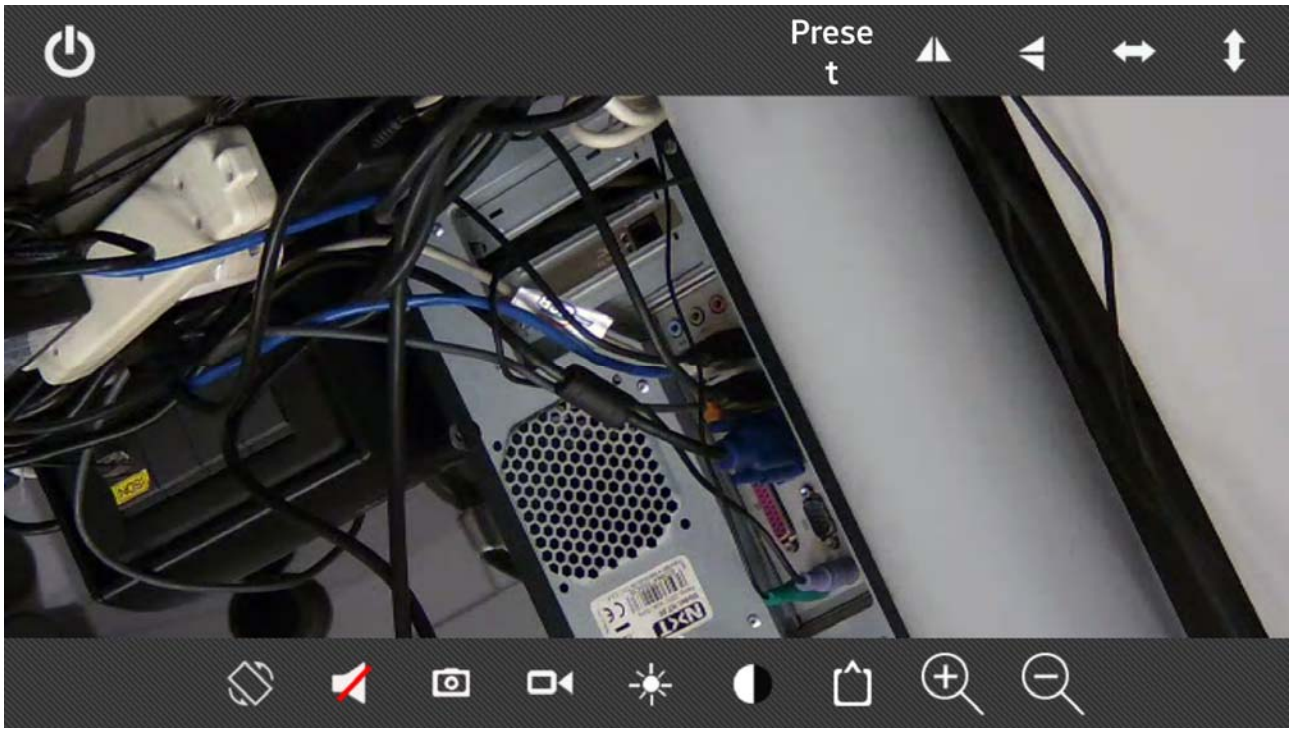
Note that you can not enter in the field of IP CAMERA ID, because the application only works through the P2P network cloud.

LIVE VISION CAMERA

After adding the camera you can start to live view



Touching the center of the screen you open the Control Bar


Prese
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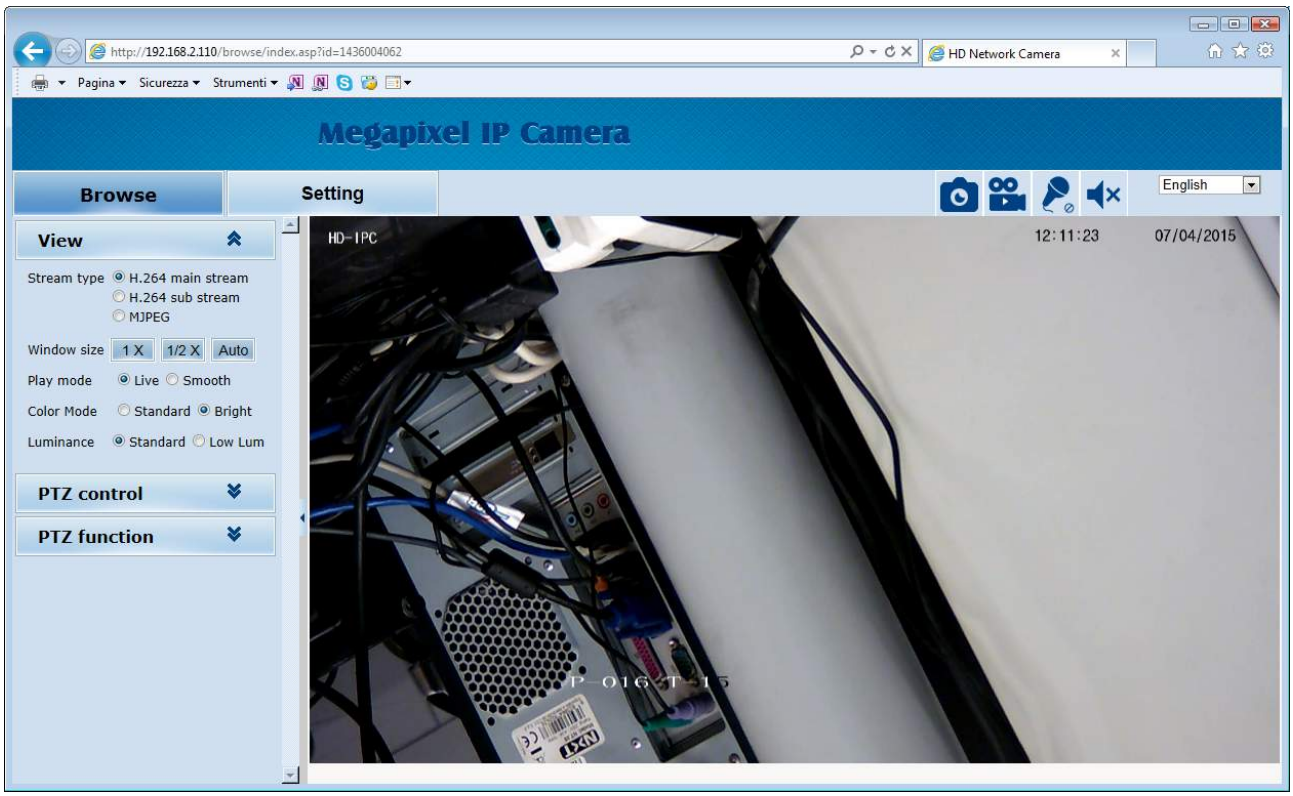
LIVE Controls

In previous pages we explained how to access the cameras with your PC using the Internet Explorer browser

If you have never done before access with the browser on your camera should resume the manual more soprae follow the instructions to connect successfully.

This section of the manual start from the login window to enter user name and password for access, admin / admin Factory



LIVE VIEWING AND CONFIGURATION

The Internet Explorer interface window is divided into two tabs that can be selected with tabs at the top.

BROWSE - LIVE Vision and control of the camera movements SETTING - Camera

Configuration

BROWSE Choose to display the real-time camera.

VIEW

In this window you define the video streaming features that you want to receive from the camera

STREAM TYPE - The camera is able to manage 3 video streams. In this box you decide which video streaming in the browser to receive between 3 available:

- H264 Main (Major) stream - And 'the main video stream normally used in connection of internal network
- H264 Sub (Minor) stream - It 'a video stream lighter to use with low bandwidth available, for example via internet
- MJPEG - Video Stream high quality and least compression for special purposes only network internal

The characteristics of these streams are defined in the configuration. In this window you choose which to use for the current connection.

As a rule should choose the main stream of the local network and the sub stream via the Internet

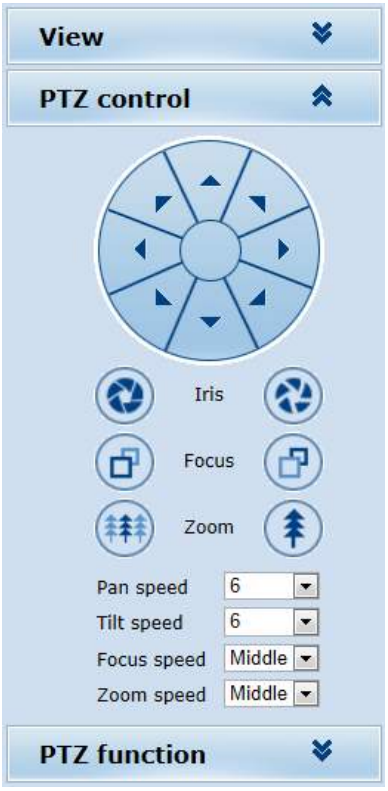
VIDEO SIZE - Define the size of the live window. Recommended AUTO or 1/1 (size

original). small size of the window, however, are available 1 / 2x 1 / 4x or full screen (FULL).

PLAY MODE - Choosing live streaming faithfully follow the pre-defined settings. Choosing Smooth will adapt to bandwidth availability to maintain smooth video.

COLOR MODE - Speaker lightly on the live video performance by balancing colors in shades FRESH (bright tones), and STANDARD COLD (cold colors)

PTZ CONTROL



In this window you control the camera movements. The movements are controlled with the mouse buttons while the IRIS, FOCUS and ZOOM intervene on IRIS, FOCUS and ZOOM. In this parameter, the zoom is always controlled and IRIS FOCUS and can not be active if the camera settings provide automatic capabilities. At the bottom it is possible to adjust PAN SPEED (horizontal movement speed), TILT SPEED (vertical movement speed), FOCUS SPEED (firing rate) and ZOOM SPEED (zoom speed).

In addition to this panel, you can also control the camera movements with the mouse directly on the live window.

And 'possible to control the zoom quickly with the mouse wheel

E 'can also define a rectangle with the mouse over the image because the camera will automatically move to frame area.

By double-clicking the right mouse button you bring the camera full screen (no frame of the browser)

PTZ FUNCTION

Like all speed dome cameras also RJ series can perform automatic movements.

To avoid misunderstandings in the reading of this part of the manual appropriate first to clarify that for these cameras, there are 4 types of automatic movements:

- **PRESET** - The presets are preset camera positions characterized by a precise value of X / Y coordinates, zoom and focus. You can easily call if necessary. You can define up to 255 presets. To define a preset position the camera, choose the preset number and click SET. To recall the preset, select the number and click CALL. To delete a preset, select the number and press MOV.

- **AUTOPAN** - It is understood the continuous movement of the camera horizontal rotation (panning) to start scanning click AUTOPAN. To stop sending any other command

- **TOUR** - Also commonly called CRUISE. It means the automatic movement of the camera between presets with a residence time on each of them programmable. The camera has 3 TOUR: Tour 1 preset between 1 and 16, Tour 2 17:32 between presets and preset Tour 3 between 33 and 48. Any preset in the tour not set are ignored.

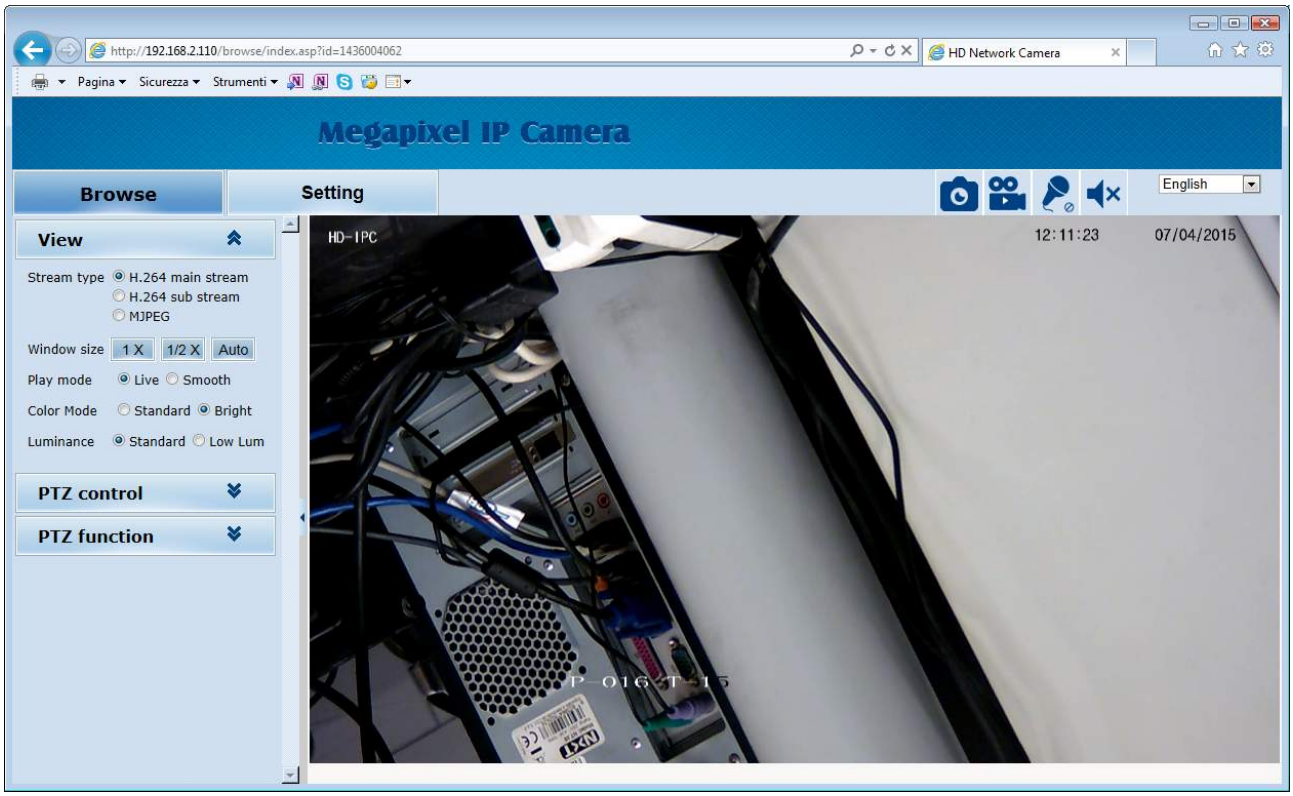
- **PATTERN** - Not available on these models

CHECKS LIVE

In this panel you can perform some checks in the LIVE Vision. E 'can take a picture of the live image and also start and stop recording a clip. The lens with buttons, microphone and speaker are not active on this camera model. The photos in JPG and AVI movie files are saved in the plugin installation folder for IE which by default is C: / IPC_PlayerAX. The destination can be changed in the configuration.

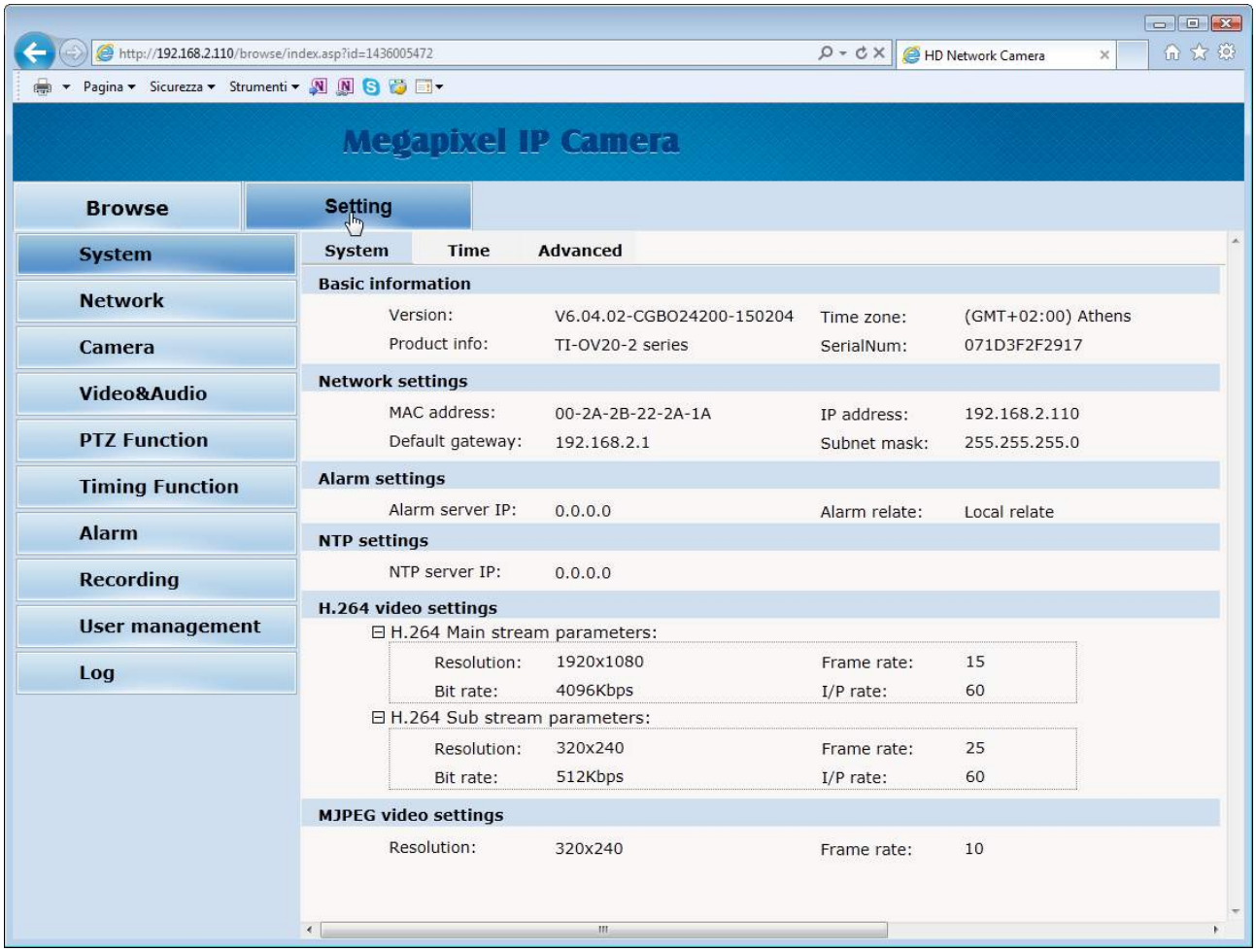
Configuration

Using your Internet Explorer browser, you can configure the operation of the camera options.

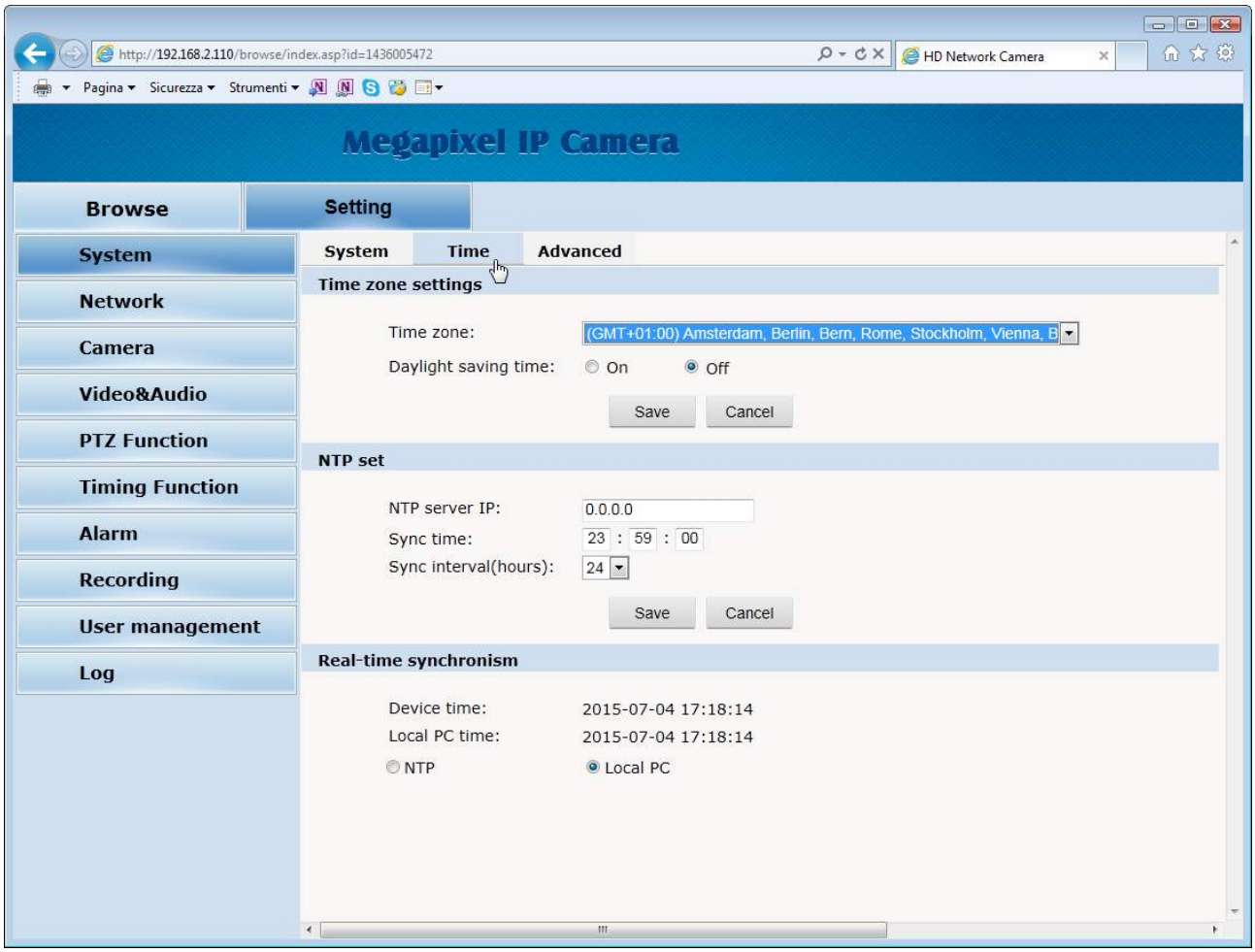


Click the SETTING tab to access the configuration.

SYSTEM



The first page of the SYSTEM to the SYSTEM folder displays all the information on the camera status. This is an information page can not be modified



The SYSTEM / TIME page includes time adjustment of the camera

TIME ZONE - Select the reference time zone. For Italy GMT + 1.

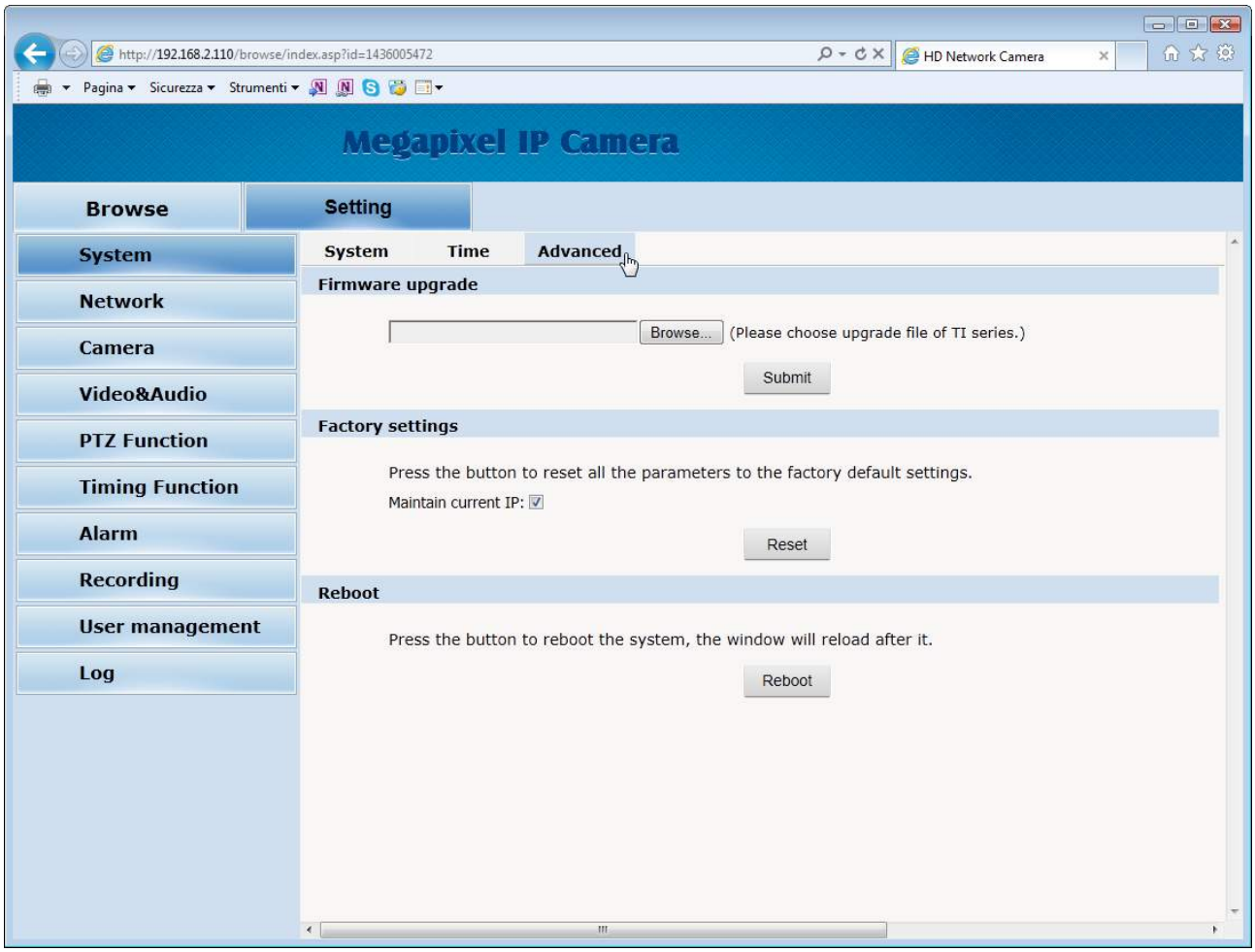
DAYLIGHT SAVING TIME - Indicate whether managing the automatic changing to summer / winter time.

NTP SERVER - Here it is' possible to make sure that the camera automatically synchronize the time and date via the internet with an NTP (Network Time Protocol). Enter the server address, the time and frequency of each synchronization.

DEVICE TIME - The current date and stored in the camera's time

LOCAL PC TIME - The date and time on the PC.

NTP / LOCAL PC - Here you can choose to synchronize the camera's time with the time on your PC or NTP server.



The SYSTEM / ADVANCED page includes some maintenance functions

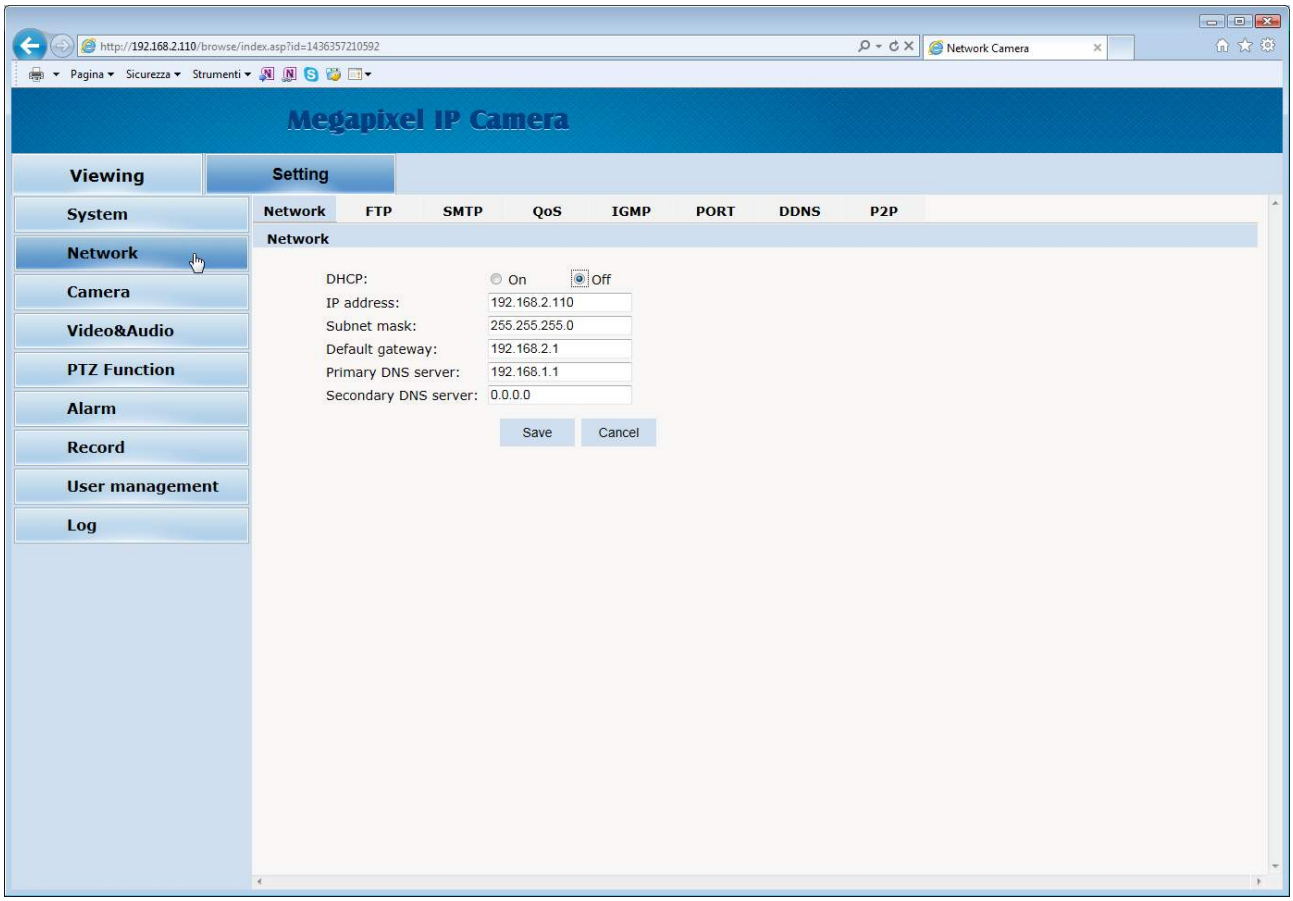
FIRMWARE UPGRADE - E 'can make the firmware update, only if requested by the technical DSE

FACTORY RESET - Restores the camera's factory settings. If you check mantain CURRENT IP camera maintains its current IP, otherwise reset to factory

192.168.2.110

REBOOT - Reboot the camera

NETWORK



The network page includes the camera network data

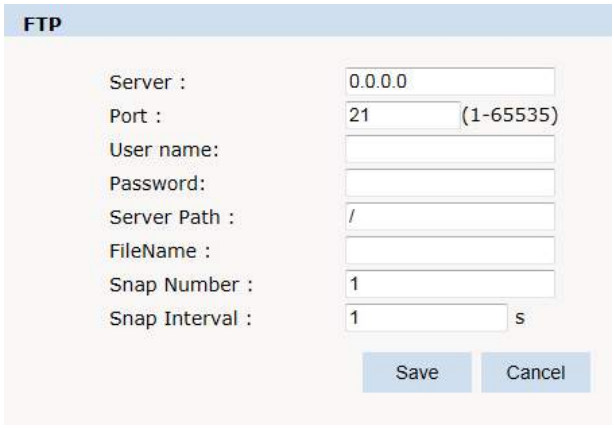
DHCP: The cameras support both manual IP address assignment is automatic assignment from a DHCP server on the network. The latter is typically not used because it could cause the change in the address time of the camera.

The DHCP mode may be of help if you are uncertain about the network configuration to be assigned to the camera. You can start the camera in DHCP mode, so that it automatically takes the correct parameters, then exclude the DHCP and copy the parameters in the static configuration.

IP / SUBNET MASK / DEFAULT GATEWAY: The classics are parameters that allow the device to communicate with your network. Normally these parameters are assigned during the installation with the IPCSEARCH software as shown in the installation section.

PRIMARY / SECONDARY DNS - And 'the DNS server address that allows the camera to interpret the web site addresses. It is assigned by the Internet Service Provider (ISP) to your network.

FTP - The cameras can upload images to a website via FTP on a time basis. It 'a very used in applications webcam application. You 'can specify the address of the FTP server with the login credentials, port, folder and file name to update. E 'can also specify how many frames to send in xx seconds.



SMTP - Cameras can send alarm EMAIL. E 'can indicate the address of the SMTP mail server, the sender address to use and 2 recipients (TO / CC). You can also enable password authentication if the server is requesting.

QoS - There are 4 options QUALITY 'OF SERVICE network: normal, high reliability, high bandwidth utilization, low latency. There are 4 different ways to handle delays and network congestion.

IGMP - Management of advanced network protocols for multicasting

PORT - Here you can change the ports used by the camera for network communication: http (default 80), Video (default 90), RTSP (default 554) and ONVIF (8999 fixed)

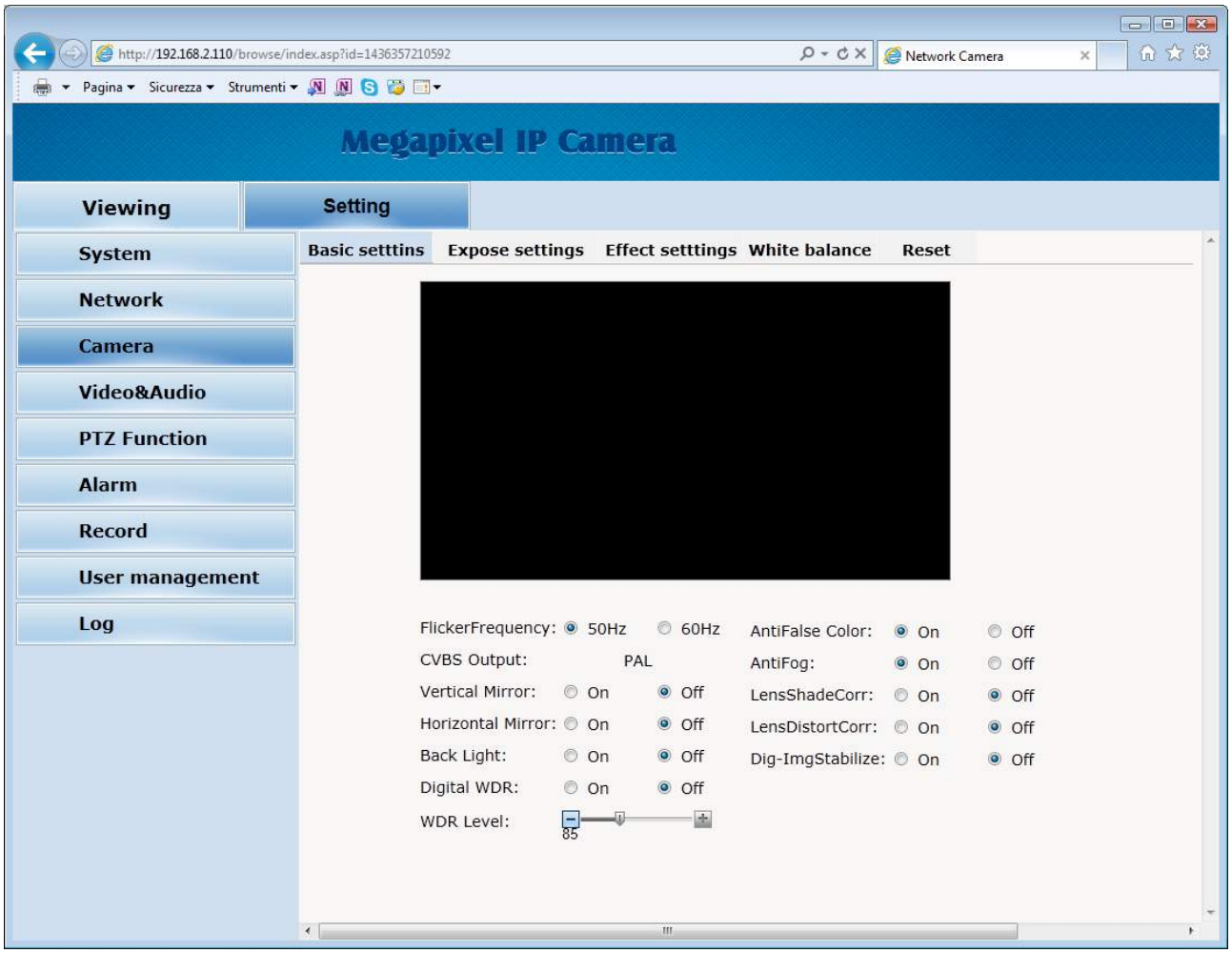
DDNS - In Naked cameras it is extremely rare that you access the camera directly, without passing by 'NVR. If you need access to particular applications through the Internet directly to the camera it is definitely advisable to have a fixed IP address so that you always know the exact address to connect. If it can not get from your provider, all cameras in the range support services DDNS (Dynamic DNS) that allow you to constantly monitor the machine's IP address. These services, also available for free, provide the user with a domain name that you type into your browser. The DDNS provider redirects communication to the IP address that the camera has at that moment.

The RJ Series cameras support the most common DDNS services and are able to send to the DDNS provider periodically Internet IP address assigned to them. E 'can set the provider address the port and authentication.

Using mobile apps and cloud included with the camera is not necessary to use DDNS services.

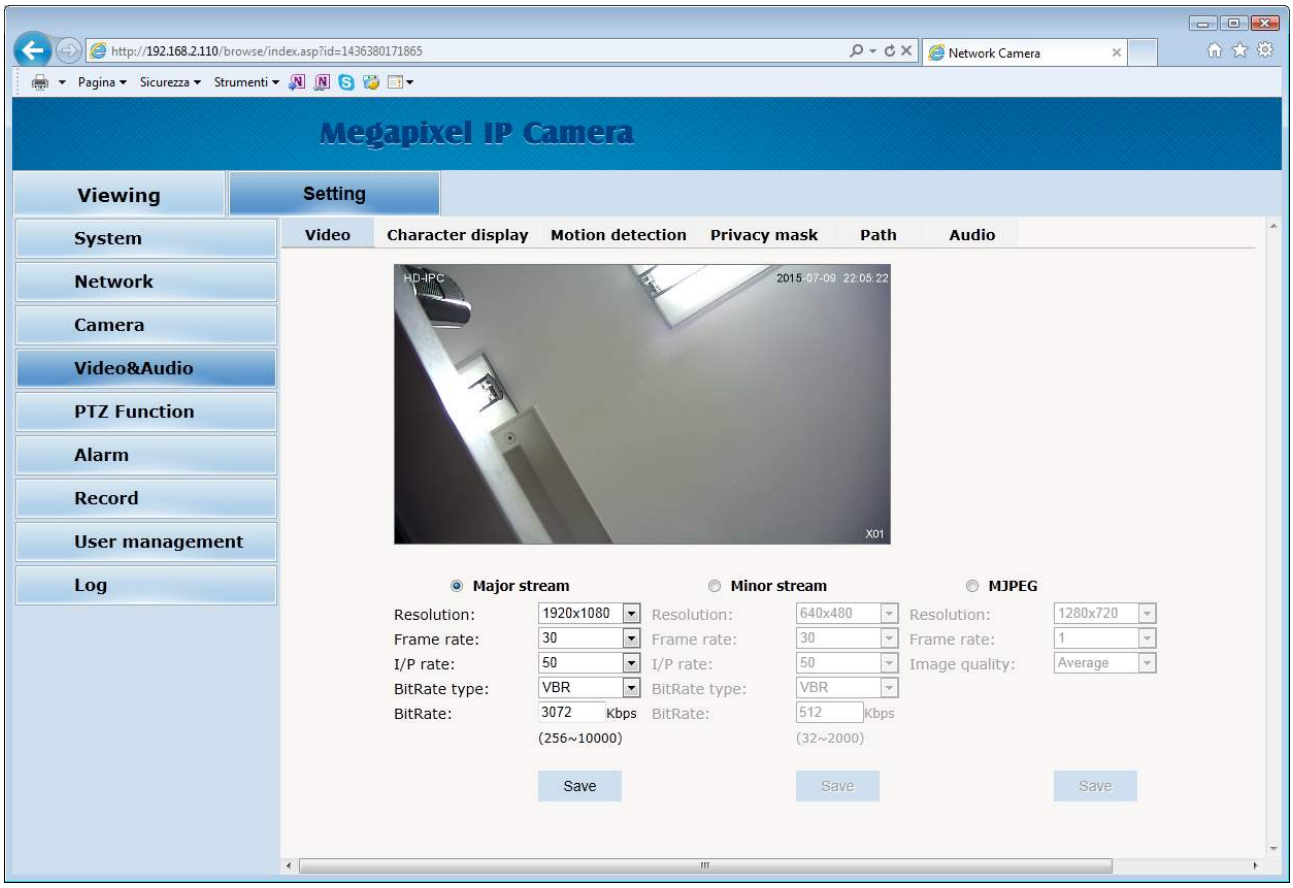
P2P - In this section you can disable the P2P service in the cloud server that allows access from phone without static IP and router configuration., This factory service is enabled. You should disable the service if you are not using it to maximize privacy protection. This window also shows the serial camera identifier and the QR code to be scanned to load the DVR in the APA, also written on the outside of the camera.

ROOM



The CAMERA page, with its various tables includes configuration parameters of the module camera with the usual image adjustment items.

VIDEO AUDIO



In this section you set the feature of the camera video stream. The camera manages 3 stream: MAJOR STREAM (main stream), SUB STREAM (secondary stream) and MJPEG STREAM (MJPEG stream with static compression). Since connected client you can define which stream to use.

RESOLUTION - The resolution can be adjusted from 720x480 to 1920x1080.

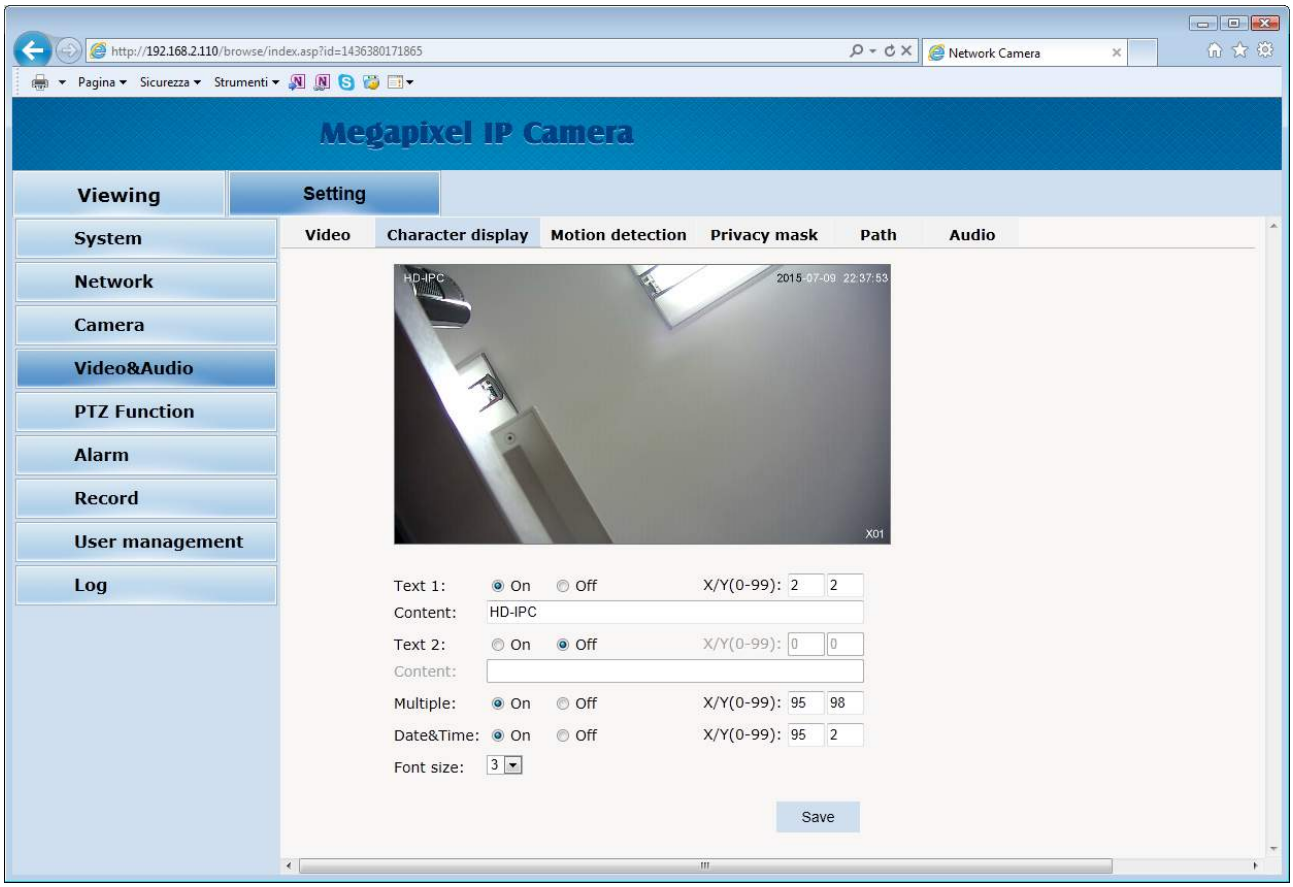
FRAME RATE - It 's the number of frames per second that make up the video stream (max. 25). Consider that 25 f / sec corresponds to the so-called real-time ie the television standard in which the human eye does not perceive the individual frames but a single uninterrupted sequence. Generally you can reduce this parameter up to 10/12 f / sec without perceiving large video fluidity differences and thus saving a lot of bandwidth.

I / P RATE - The relationship between the frame and P frames in the video stream. The higher the ratio, the lower the bandwidth required.

BIT RATE TYPE It gives the possibility to choose between two different bandwidth management mode occupied: CONSTANT BIT RATE (CBR) and VARIABLE BIT RATE (VBR).

In CBR mode, the camera maintains a constant bit rate that can be set in the box below. In the VBR mode instead of changing the bit rate camera in different operating conditions in order to maintain a constant video quality.

BITRATE - It represents the maximum bandwidth that the camera deal with its video streaming. As a rule should not exceed the value of 3000/4000 Kbps



The CHARACTER DISPLAY table allows to define the overlays in the image

TEXT 1-2 - E 'can define up to two titles to bring up an overlay. And 'possible to edit the content and location.

MULTIPLE - E 'can bring up an overlay zoom level

TIME / DATE - E 'can bring up an overlay Time and Date

FONT SIZE - Establish the font size of the overlay

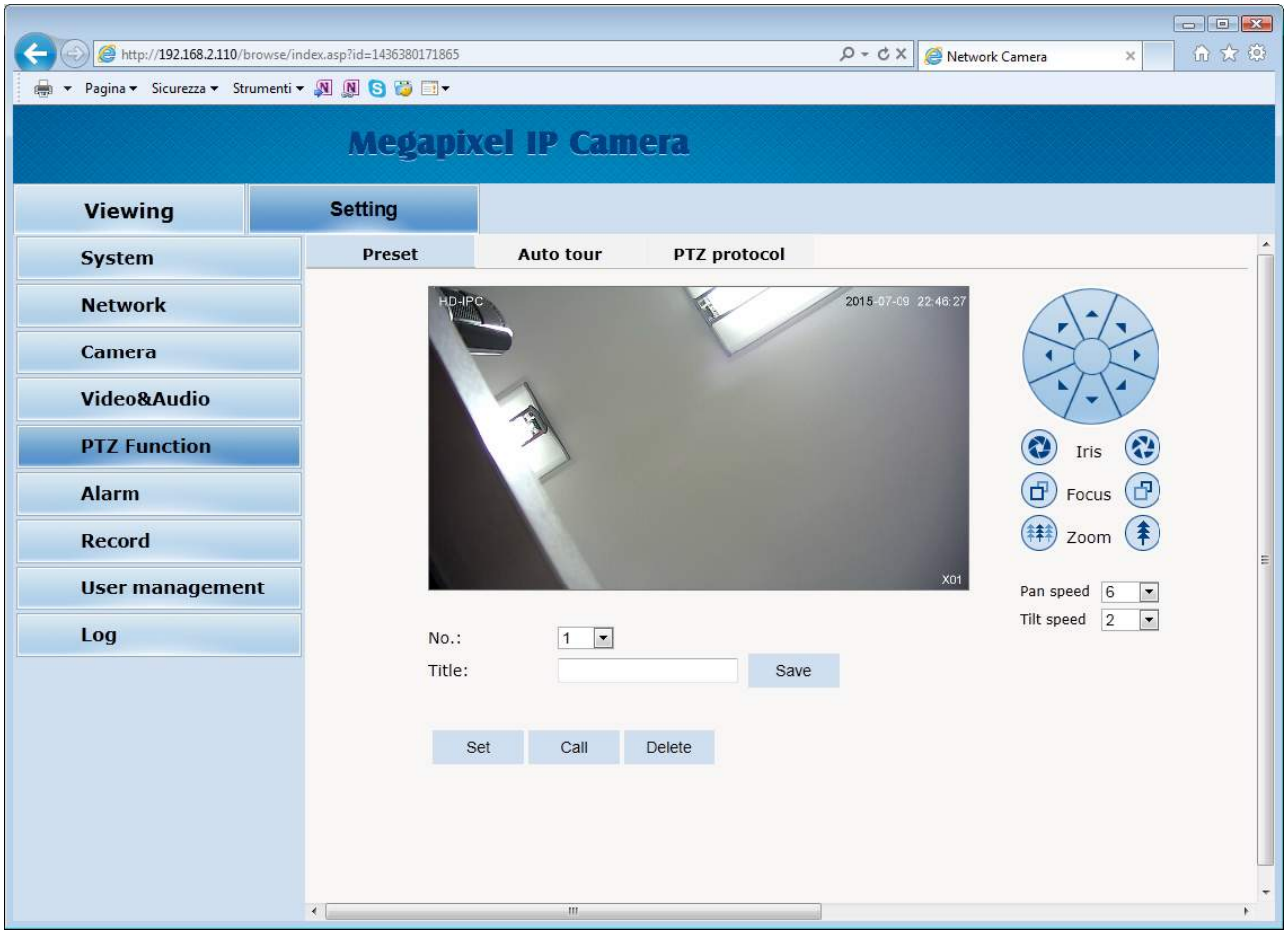
MOTION / PRIVACY - Not available in motorized cameras

PATH - Defines the storage location of the video files are recorded in the local disk and snapshot. E 'you can also vary the save format.

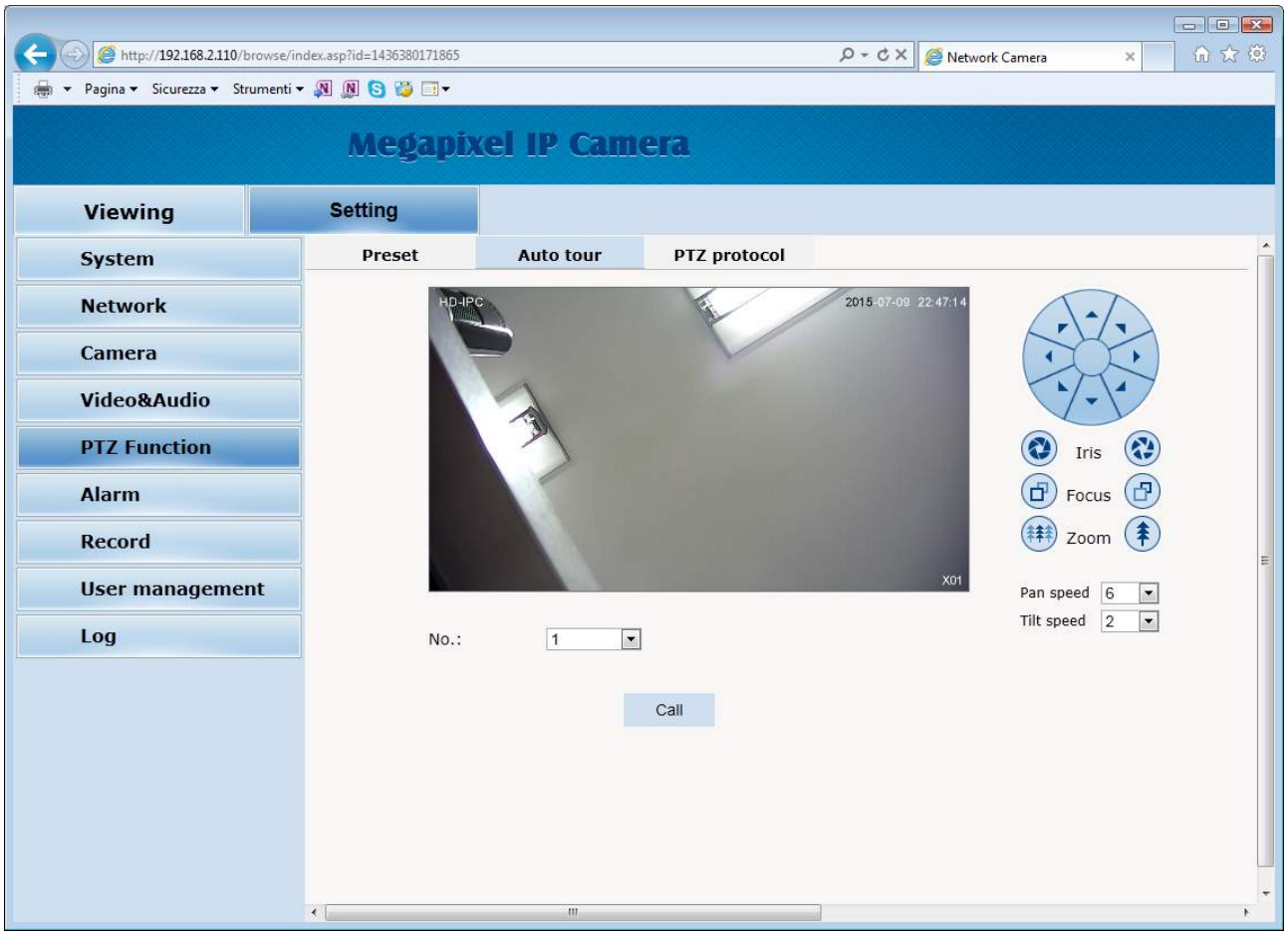
AUDIO - Not available on these models

PTZ FUNCTION

In this section you set the camera's automatic movements



PRESET - The presets are preset camera positions characterized by a precise value of X / Y coordinates, zoom and focus. You can easily call if necessary. You can define up to 255 presets. To define a preset position the camera by using the controls on the right, choose the preset number and click September E 'you can also be assigned to the preset a name. To recall the preset, select the number and click CALL. To delete a preset, select the number and press DELETE.



AUTO TOUR - Also commonly called CRUISE. It means the automatic movement of the camera between presets with a residence time on each of them programmable. The camera has 3 TOUR: Tour 1 preset between 1 and 16, Tour 2 17:32 between presets and preset Tour 3 between 33 and 48. Any preset in the tour not set are ignored. To start the tour, select the number and press CALL. To stop sending any other command.

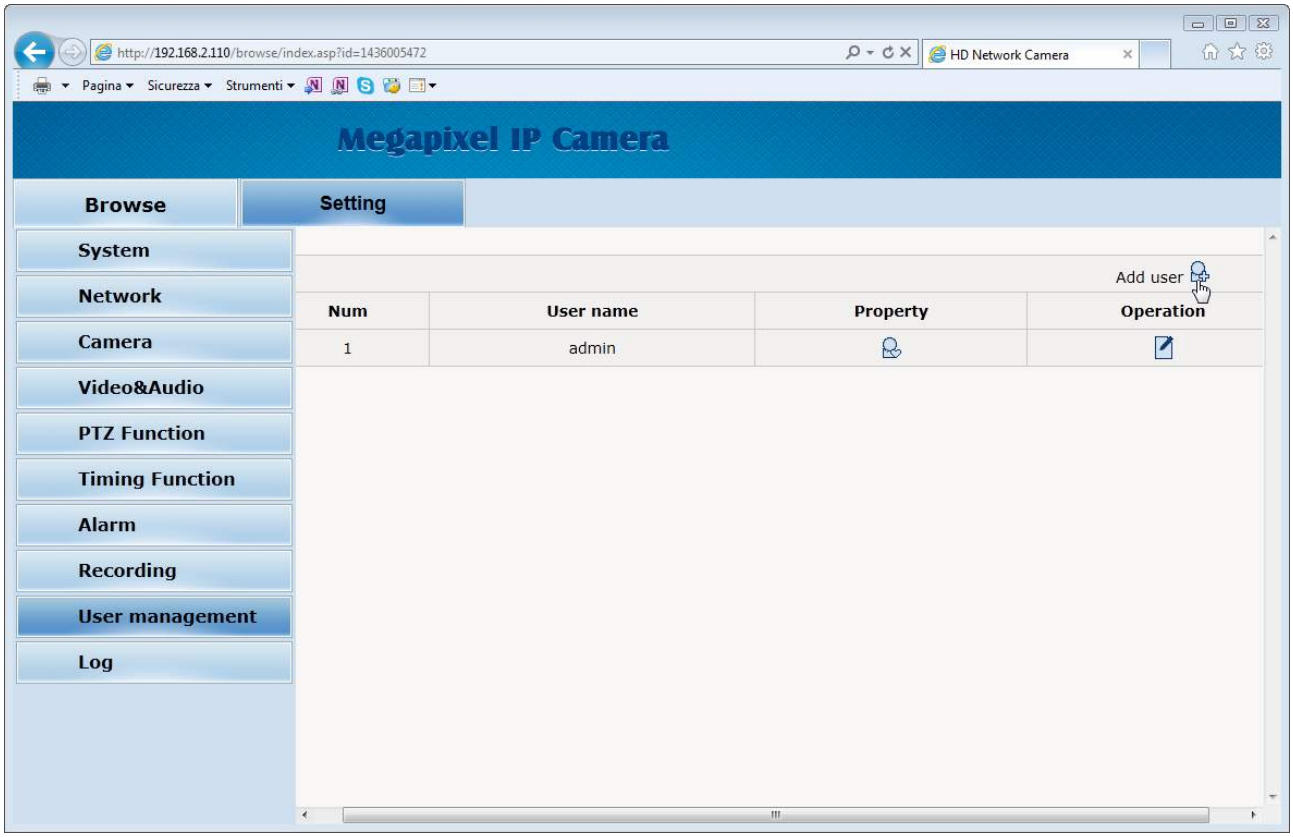
PTZ PROTOCOL / TRANSPARENT SERIAL - Not uilizzati of these models

ALARM / RECORDING

Not available on these models

USER MANAGEMENT

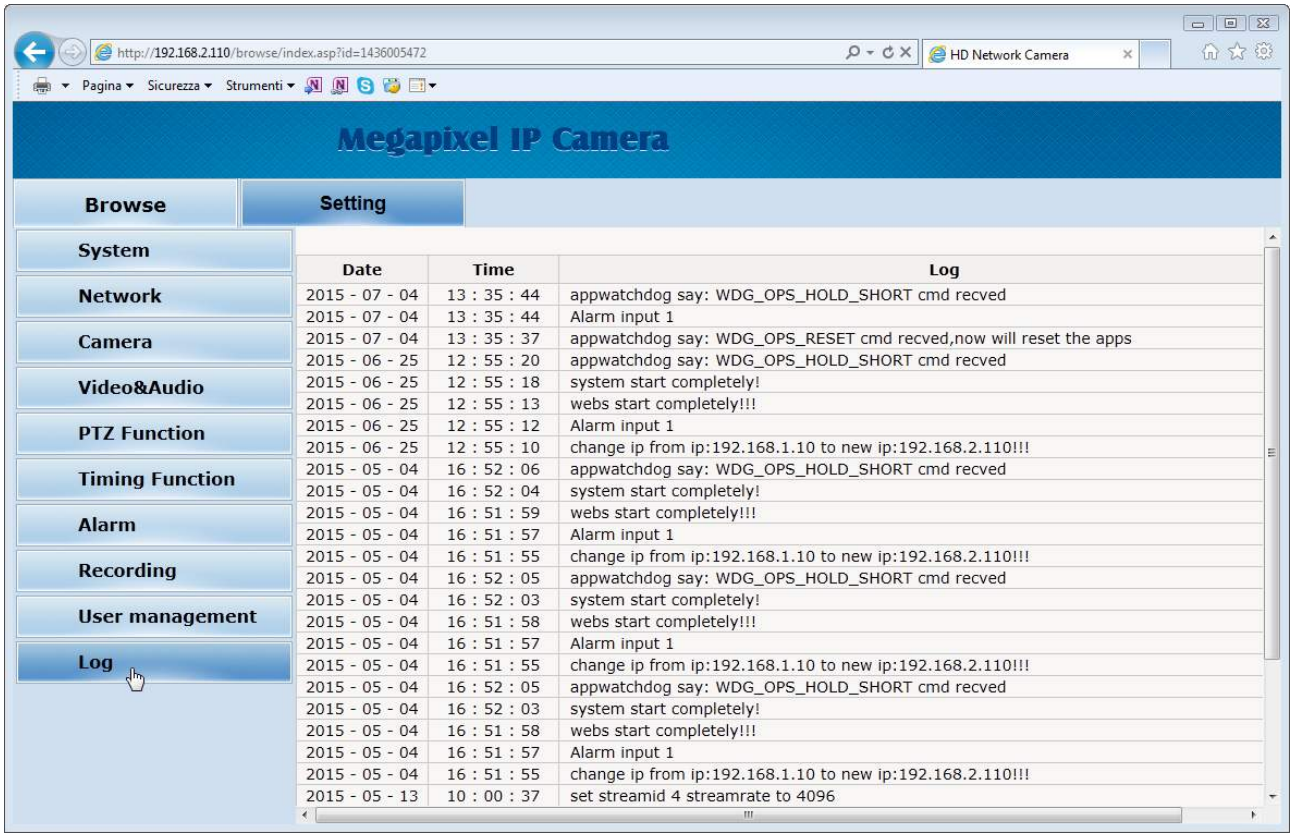
On this page you can create new users that can access the camera



USER Press ADD to add a new user with your USER NAME and PASSWORD

LOG

On this page you can read the contents of the memory of the camera events



Date	Time	Log
2015 - 07 - 04	13 : 35 : 44	appwatchdog say: WDG_OPS_HOLD_SHORT cmd recved
2015 - 07 - 04	13 : 35 : 44	Alarm input 1
2015 - 07 - 04	13 : 35 : 37	appwatchdog say: WDG_OPS_RESET cmd recved,now will reset the apps
2015 - 06 - 25	12 : 55 : 20	appwatchdog say: WDG_OPS_HOLD_SHORT cmd recved
2015 - 06 - 25	12 : 55 : 18	system start completely!
2015 - 06 - 25	12 : 55 : 13	webs start completely!!!
2015 - 06 - 25	12 : 55 : 12	Alarm input 1
2015 - 06 - 25	12 : 55 : 10	change ip from ip:192.168.1.10 to new ip:192.168.2.110!!!
2015 - 05 - 04	16 : 52 : 06	appwatchdog say: WDG_OPS_HOLD_SHORT cmd recved
2015 - 05 - 04	16 : 52 : 04	system start completely!
2015 - 05 - 04	16 : 51 : 59	webs start completely!!!
2015 - 05 - 04	16 : 51 : 57	Alarm input 1
2015 - 05 - 04	16 : 51 : 55	change ip from ip:192.168.1.10 to new ip:192.168.2.110!!!
2015 - 05 - 04	16 : 52 : 05	appwatchdog say: WDG_OPS_HOLD_SHORT cmd recved
2015 - 05 - 04	16 : 52 : 03	system start completely!
2015 - 05 - 04	16 : 51 : 58	webs start completely!!!
2015 - 05 - 04	16 : 51 : 57	Alarm input 1
2015 - 05 - 04	16 : 51 : 55	change ip from ip:192.168.1.10 to new ip:192.168.2.110!!!
2015 - 05 - 04	16 : 52 : 05	appwatchdog say: WDG_OPS_HOLD_SHORT cmd recved
2015 - 05 - 04	16 : 52 : 03	system start completely!
2015 - 05 - 04	16 : 51 : 58	webs start completely!!!
2015 - 05 - 04	16 : 51 : 57	Alarm input 1
2015 - 05 - 04	16 : 51 : 55	change ip from ip:192.168.1.10 to new ip:192.168.2.110!!!
2015 - 05 - 13	10 : 00 : 37	set streamid 4 streamrate to 4096