POE IP Kit Plug & Play

IP cameras and NVR

Installation manual

How to install the system

How networking How to insert an additional camera

Contents of this handbook

The POE kit RKK series are designed to make small video surveillance systems rows ready to operate in minutes and can be installed without any specific knowledge. This manual explains how to install cameras and video recorder, how to make the basic adjustments and how to connect to computers on the internal network.

Package Contents

The kit you have purchased is a complete video surveillance system. The package includes:

1 - Video Recorder (NVR)

2 - 1 to 8 POE IP CAMERA FOR INDOOR / OUTDOOR

4 - ACCESSORIES

THE KIT DOES NOT INCLUDE **network cables** for cameras **and the hard disk** to be inserted inside the NVR, you have to buy separately in the size you prefer.

NETWORK CABLES - For cameras you need CAT5E UTP cables with RJ45 connectors. You can order our patch cord ready in the length you prefer, or to buy the network cable in coils to be cut to size with the connectors crimped end. If you are using cables you already have that you sincerarti core pure copper cables because in CCA are not good for the POE.

HARD DISK - For your NVR can buy any SATA HDD up to 8TB. For longer life uses our hard drive for video surveillance specially designed for operation 24 hours 24

Connect the cameras

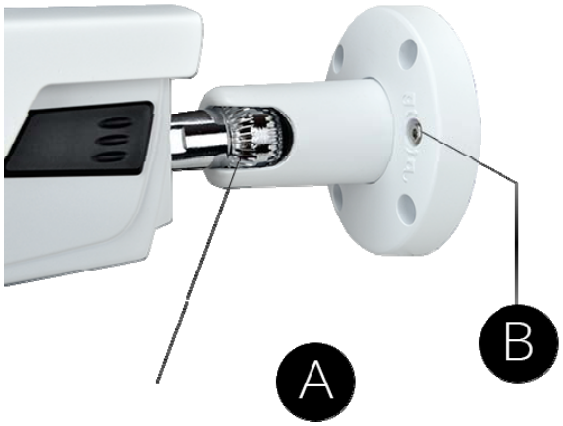
The cameras of this system are designed to not require any configuration. You just connect the camera to one of the POE NVR network ports.

1 - CONNECT THE CAMERAS

The cameras are equipped with some connectors. The only one you need to consider is the RJ45 network connector that you connect to a LAN port on the back of the NVR. You can ignore the DC power jack and any connectors for audio and reset button because normally not used with these kits.

2 - INSTALL THE CAMERA

You can also attach the wall or ceiling camera and orient it thanks to the articulated bracket. They are provided the dowels and the drilling template. The bracket is provided with an Allen key (B) that you have to unscrew the L-wrench provided to be able to orient the joint (A). At the end of the screw greenhouse operation (B) to lock the bracket


A
B

Install the Hard Disk

If you want your system to record, you must install a hard drive inside the VCR. Any of the SATA hard drives for computers 3.5 ", but for a longer life would agree to purchase an appropriate model for video recording. The maximum HDD capacity that can be fitted is 8 TB.

If you ordered the hard disk along with your kit you receive the fully assembled so you can skip this section.

Remove the cover by unscrewing the 5 screws:

2 on each side and a rear

Connect the hard drive with two power and data cables

that are inside

Fix the hard disk with 4 screws provided which are screwed from

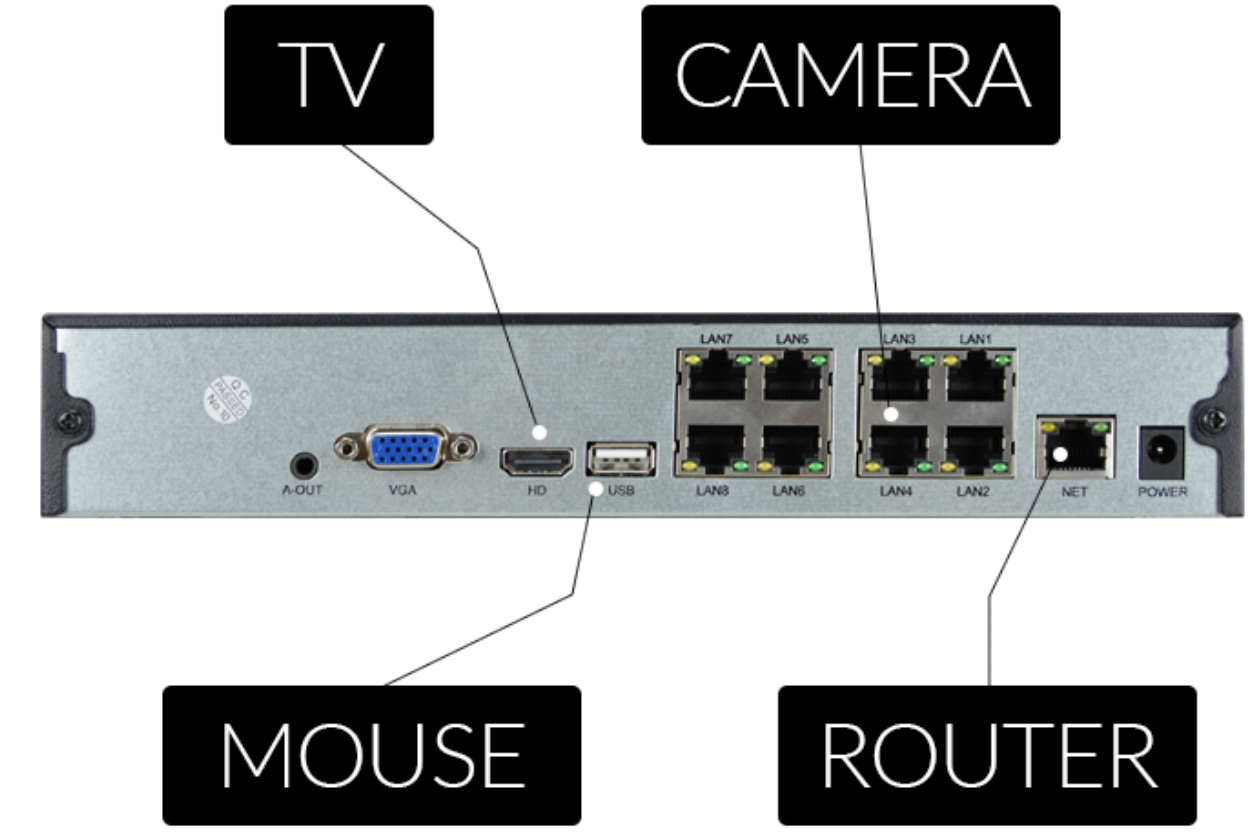
below the base. Then the reclosable

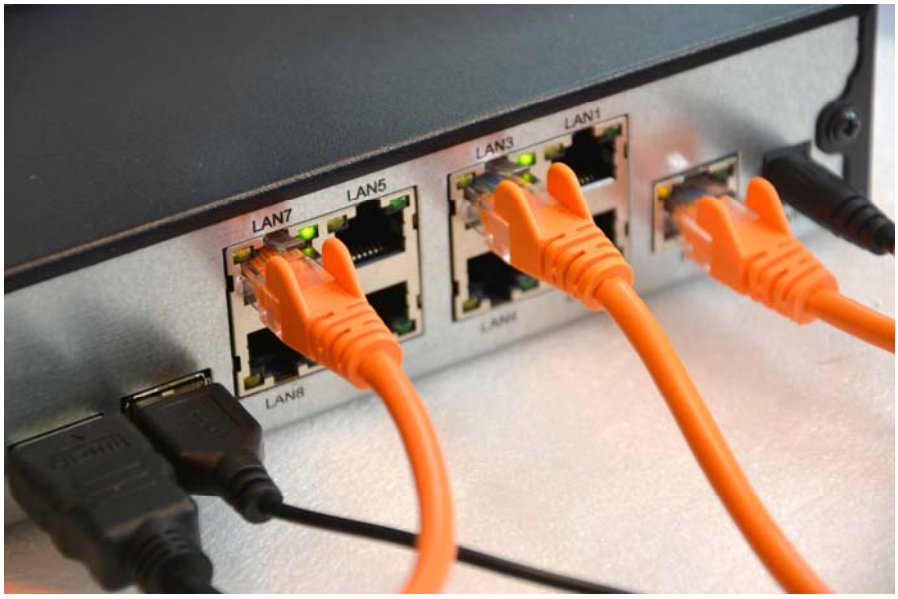
cover.

The next time, the NVR will reveal the new hard drive installed, and ask you to start formatting to use it.

Connect the NVR

The central unit of your system is a network video recorder with POE ports, which apparatus is also called NVR. To use it you have to make some connections on the back. The diagram below may vary slightly depending on the model of the kit.





A-OUT - AUDIO / HEADPHONES

This is an audio output for speakers or headphones with a 3.5 mm stereo jack. If you have purchased the cameras with audio you can hear from this exit. Remember that the HDMI output to the monitor also carries the audio for which this output is present as an additional option.

VGA - A COLLEAGUE FROM COMPUTER MONITOR

To use your NVR you need a monitor to see where the cameras and configure the options. If you use a computer monitor with a VGA port, you must connect the cable to the blue port of the NVR, called VGA.

HD - A COLLEAGUE TV

Even the TV can be a great monitor for your NVR. To connect, you need an HDMI cable that plugs into the HDMI port of the NVR. To view images on TV you must remember to select in your TV's HDMI external input you used to the NVR. Typically this is done by pressing the SOURCE button on the remote.

USB - CONNECT THE MOUSE

The NVR is controlled with the mouse, like a computer. Plug the mouse supplied with the product to the rear USB port.

LAN 1..8 - CONNECT THE CAMERAS

Depending on the kit you've purchased you can find 4 or 8 POE ports on the NVR reto. They are numbered LAN1 ... 8. Link Here your cameras with a network cable. Just connect the monitors that the two LEDs, solid green and yellow flashing light up. Connect the cameras to the inputs 1..8 in the order in which you want to see them on the screen (1..8). These kits are Plug & Play so you do not have to configure anything, you think the NVR to automatically configure the cameras for you. After connecting the cameras it is good to restart the NVR so that colder with the connected cameras.

NET - CONNECT THE ROUTER

In order to view your cameras over the Internet, you must connect the NVR to your network. You must use a standard network cable and put one hand in the door **NET NVR** and on the other to an available port on your router or switch. The NVR is factory set to automatically configure themselves on a network automatically (DHCP).

POWER - CONNECT THE POWER SUPPLY

The camera power supply, supplied with the DVR, is connected to the DC12V connector on the back of the NVR. Just plugged the plug the NVR will turn on and you will see an image appear on the monitor. If you do not see anything appear checks the connection to the monitor. CAUTION: Do not confuse the NVR POE power supply that delivers 12V to 52VDC with others because you might damage the equipment beyond repair.

Make first power

Just connect the adapter plug, the NVR starts up and displays an image on the screen. If you do not see the picture you have to check the cable and the monitor settings. If you have connected the cameras to NVR wait a few minutes and you will see, already on the screen, no need to do anything.

When you first turn starts a wizard that helps you set up your system in minutes.

1 - START WIZARD

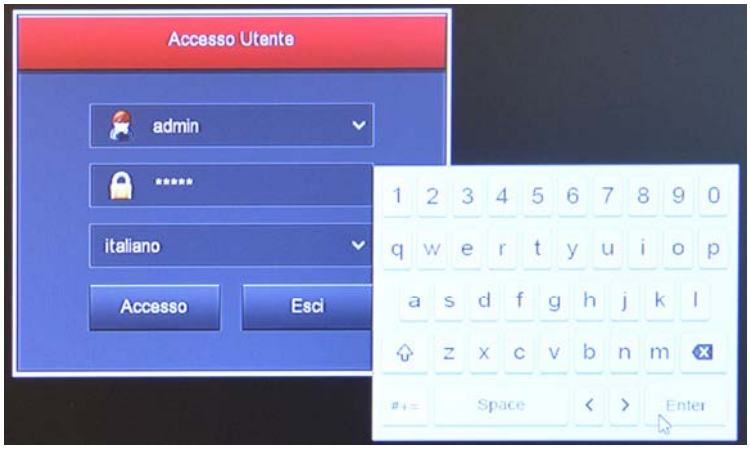
Start the wizard, after using it, you can choose to remove the check mark to stop using this procedure in future starts.

2 - AUTHENTICATION

Enter the default password:

USER: admin

PASSWORD: 12345



3 - MAKE THE GENERAL OPTIONS

In the first section of the wizard you set general system options: LANGUAGE - Select the menu language

RECORDING MODE - Select OVERWRITE to overwrite the oldest files once run out of space on HDD

DAYS HELD - Set if you want, a video archive capacity limit due to privacy requirements.

STANDARD VIDEO - Leave the PAL standard in Italy

AUTOMATIC LOGOUT - Select after how much downtime the system must request a new password to access

NAME - Enter if you want, a distinctive name for the NVR

4 - CHECK THE CAMERAS

If you already connected the NVR cameras, you will find here the list of cameras that have connected. Check that the green dot certifying the connection was successful. If you have not connected the cameras there is this empty list. Remember that auto-configuration will only work with IP cameras of our Series RK. Other cameras can not configure itself and you have to manually add them as will be explained later in the manual.

5 - SET REGISTRATION

Color the weekly green table where you want continuous recording and yellow where you want to record on motion detection, ie, only in the presence of movements.

FINISHED!

At the end of the wizard your POE CCTV system is already operating.

Review the records

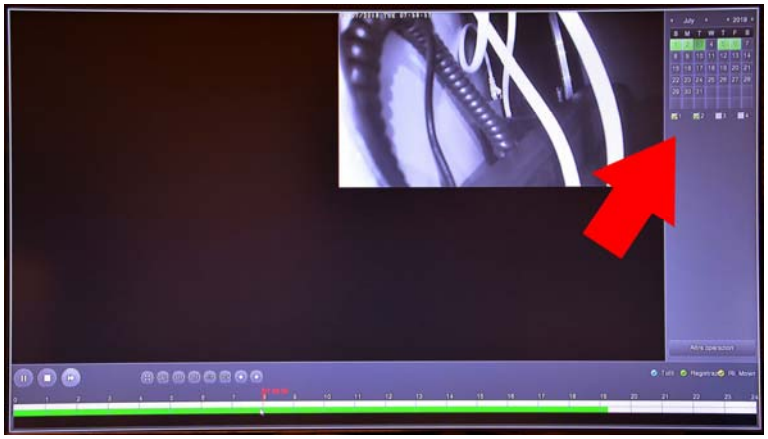
To review the records kept by your NVR do the following.

1 - OPEN WINDOW PLAYBACK

Click the right mouse button and choose in the context menu PLAY

2 - CHOOSE DAY AND TIME YOU WANT TO REVISE

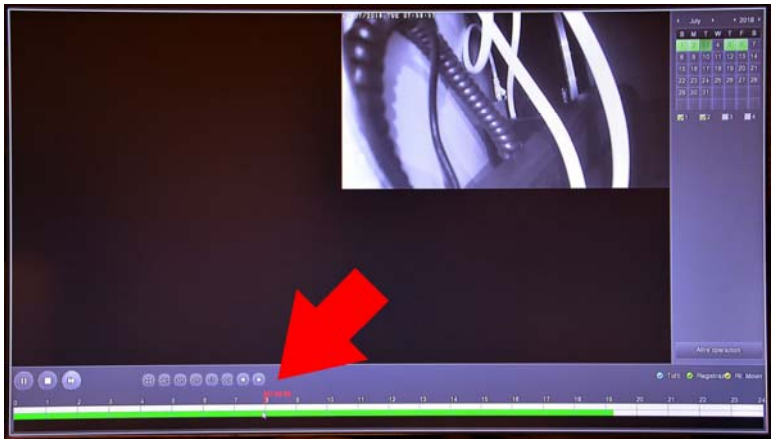
Select at the top right on the day you're interested in. The days that contain recordings are marked by colored box. Click on one of these.



3 - PLAY THE INSTANT YOU WANT TO REVISE

In the lower time bar has 24 hours of the day with colored in green and yellow recording continuous recordings made for motion detection. This is the Motion Detection function, which is very convenient to quickly find what interests you.

Click where you want the timeline to play back at that exact moment.



With the buttons 24H 6H 2H 1H 30M can vary the scale of the timeline.

With the control buttons on the bottom left you can reproduce at an accelerated pace, stop or pause playback.

Connect the NVR to your network

For you can connect to the surveillance system via PC or mobile you must connect the NVR to your network. To do this using a network cable and connect **the door EXTERNAL NETWORK called NET, or WAN** NVR to a free port on your router or switch. Verify that the port LEDs light up, this means that the connection is correct.

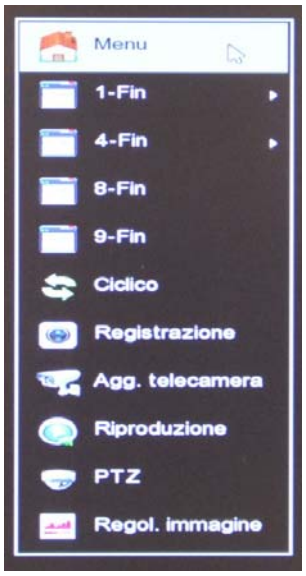
CAUTION. Do you have to connect to your network or your router if you want to make connections remotely illustrated in the following chapters.

Check the network parameters of your NVR

Your NVR is configured on the network automatically (DHCP), then you receive directly address and network configuration from your router. You need not worry to enter any parameters. However, before you connect remotely with PC and mobile it is to verify the network situation. To do this follow these instructions

1 - ACCESS TO THE MENU NVR

Click the right mouse button and choose MENU



To access you will need to log Enter the default password:

USER: admin

PASSWORD: 12345

2 - OPEN WINDOW TO CONTROL NETWORK IP ADDRESS

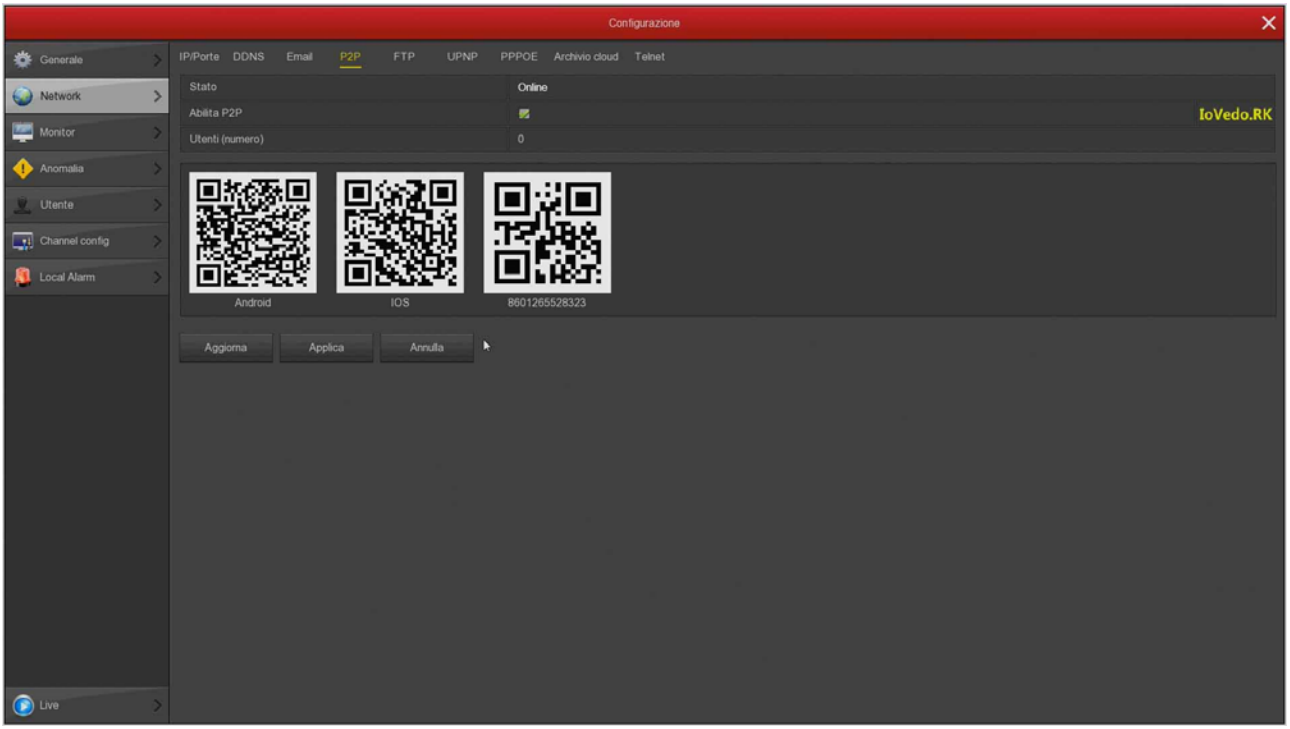
Click SELECT NETWORK SETUP and then find all the network parameters in the IP window / DOORS

In this window verify that the check on both DHCP active and get the IP address your NVR has assumed within the network is the top entry (in the example

192.168.2.168. It will be useful if you want to access NVR from inside your network, without going through the Internet.

3 - P2P GO TO THE WINDOW TO CHECK THE CONNECTION TO SERVER

After checking the IP address of your NVR, open the P2P folder



This page checks the P2P feature is enabled and that the status is ONLINE. This means that the NVR is talking well over the Internet with our P2P cloud server that allows you to access from the Internet with no configuration or static IP. If the state is not ONLINE recheck the steps above because it means that your NVR is unable to access the Internet.

For how to connect with the APP remotely see the remote access manual.

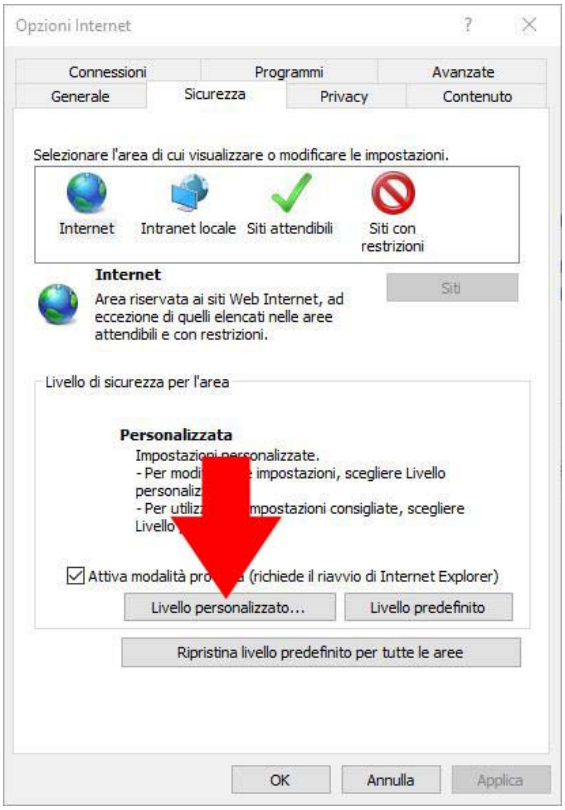
Connect with the browser on the internal network

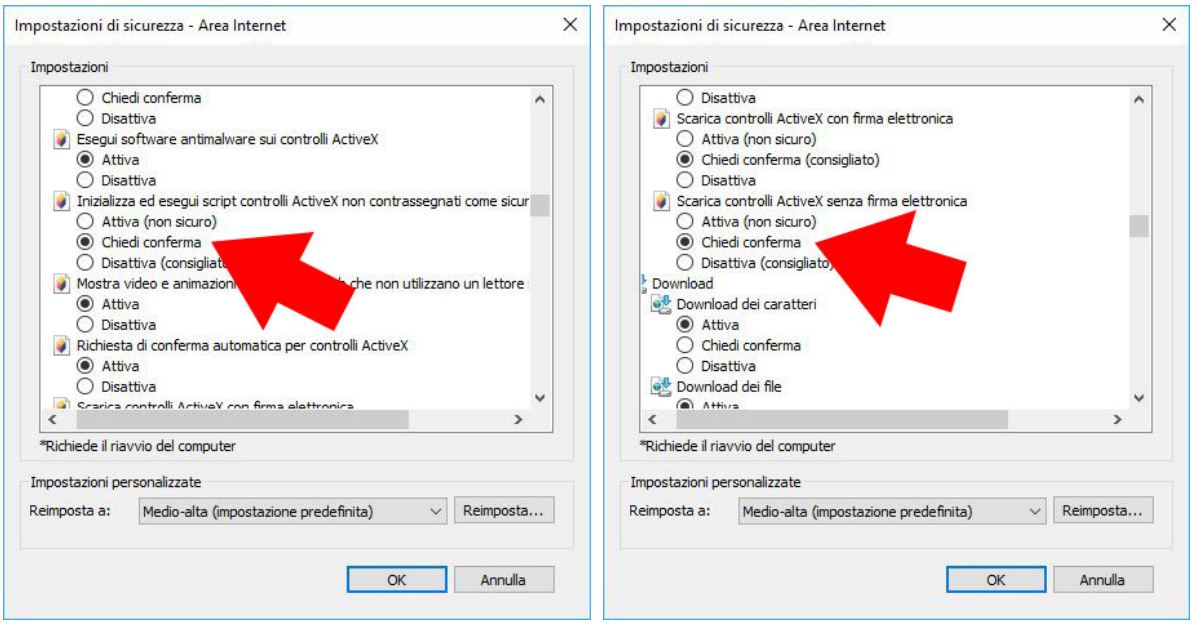
If you have a computer connected to the same network of your kit, you can view your cameras simply by your Internet browser **Internet Explorer** . Do not use other browsers, such as Edge, Chrome etc because it would not work.

To find Internet Explorer on Windows 10 look for it in the search box. On first access you will be prompted to download and install the plug-in needed for connection. Follow these instructions.

1 - ENABLE PERFORMANCE OF ACTIVEX

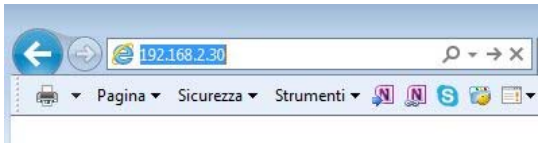
Internet Explorer has security settings that may prevent the installation of the ActiveX component. Before connect you need to enable the execution of ActiveX not marked as safe. Open Internet Explorer and choose TOOLS / INTERNET OPTIONS





2 - ENTER THE ADDRESS OF YOUR NETWORK NVR

In the previous chapter we saw how the IP address that your NVR is using the local network by opening the Settings menu in the NETWORK section. Type the IP address of the DVR in the Internet Explorer toolbar



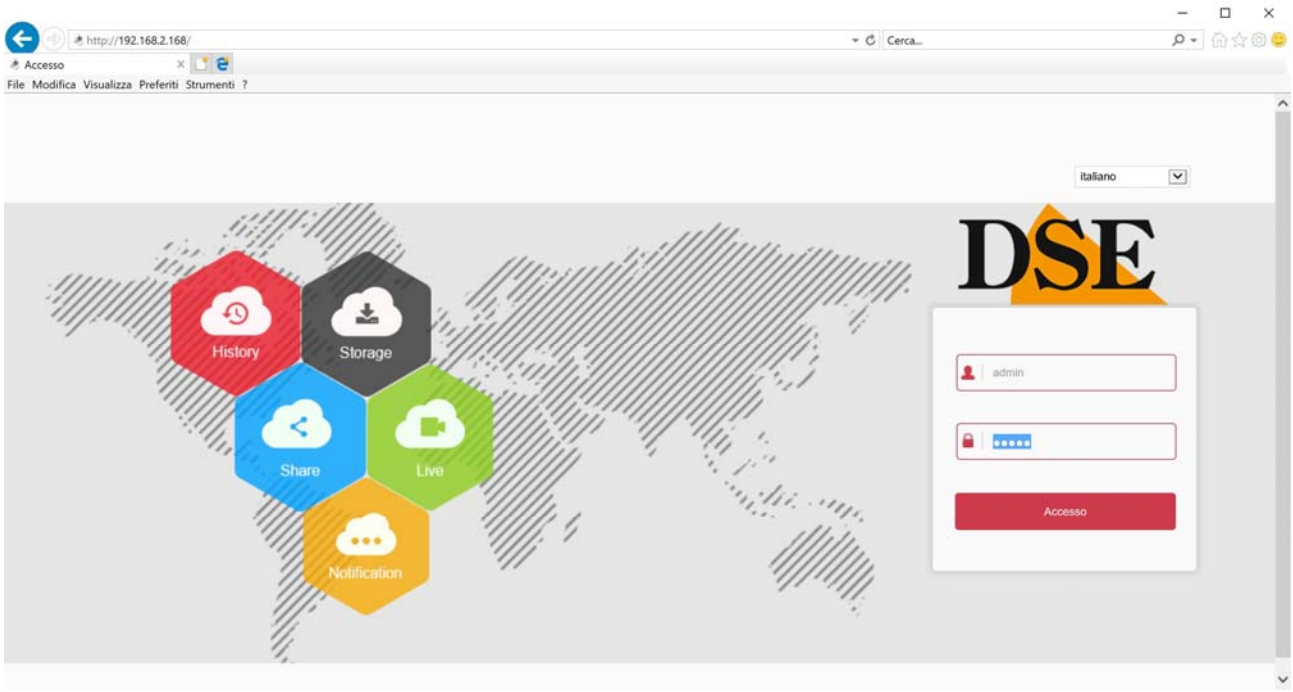
3 - AUTHORIZE THE INSTALLATION OF COMPONENTS

When you first make that you have to authorize the installation of the required components. The best thing is to download the plug-in files on your computer and install it like any other program.

Remember to close your browser before installing the component activeX and reopen it after the installation.

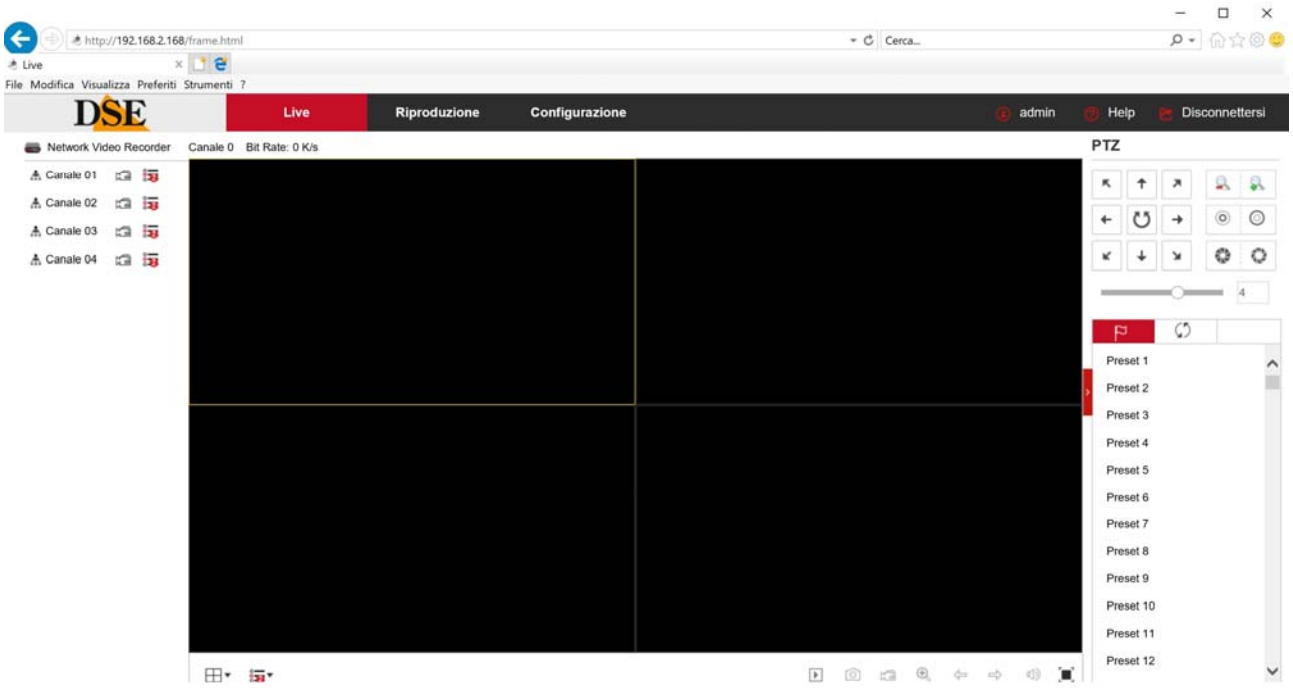
4 - ENTER YOUR PASSWORD

Enter the password for access to your NVR (admin: 12345)



5 - FINISHED

Now you logged in and you can see images of the live cameras clicking the camera icon. You can also review the records by clicking PLAY and change the configuration of the system that we will see in the manual the advanced settings.



Connect with your mobile phone and via internet

To connect via the Internet and by mobile phone check the manual for remote access to our cloud server P2P.

Add an additional RKK camera to your kit

The POE RKK kits have a maximum capacity of 4 or 8 POE cameras, depending on the models. If you purchased a kit with a number of cameras below its maximum capacity, such as a kit from 6 cameras, which can accept up to 8, you can expand it at a later time by purchasing only the additional cameras.

And 'it needs quite frequent because often, after installing the system, you realize that it would be better to buy a few extra camera. Fortunately, with RKK kit it is easy to buy the additional camera and add it to your kit at a later time.

Thanks to Plug & Play self-configuration you do not do anything, just connect the camera to the port of NVR and wait for the automatic configuration that takes a few minutes. In certain cases, you must restart the NVR after connecting the new camera.

Add a POU RK Series camera to your kit

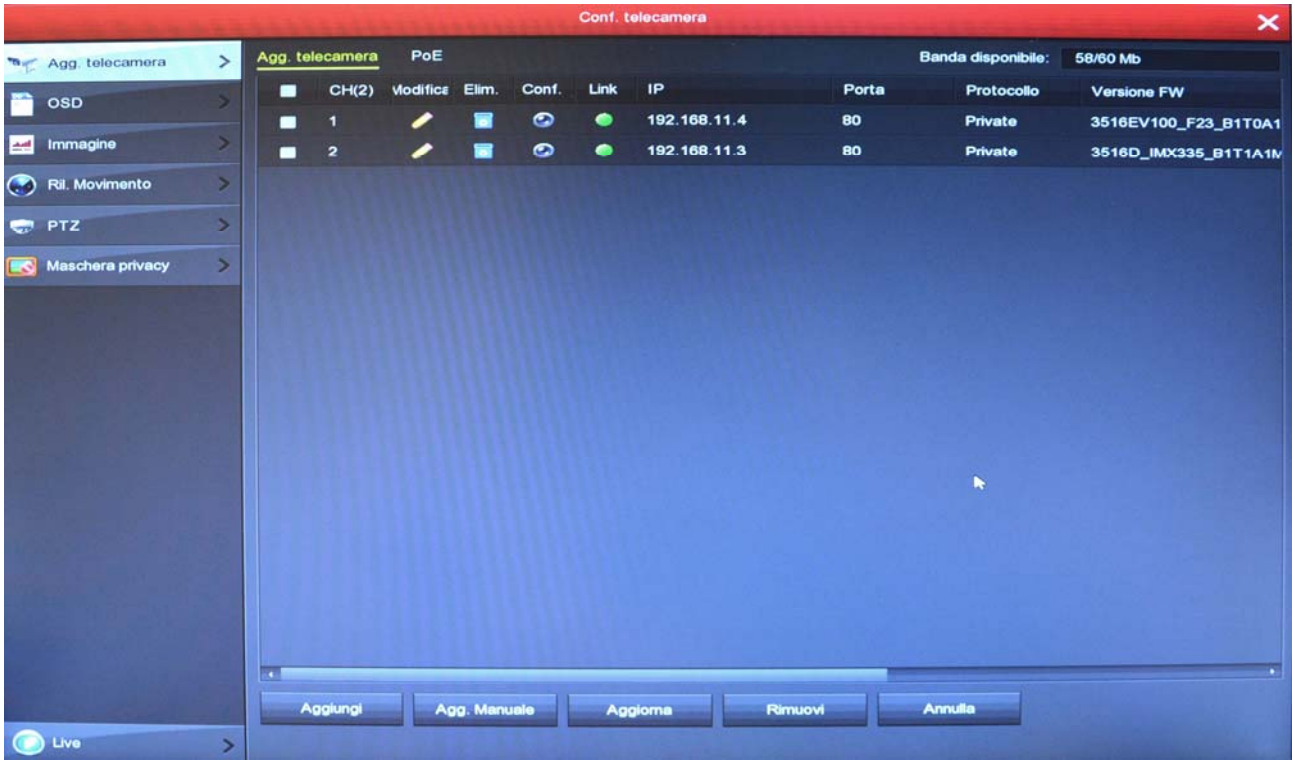
The POE RKK kits allow you to add in self-configuration Plug and Play also any POE DSE Series RK camera. If you buy one of our RK Series IP camera and connect to a POE port on your kit, it will automatically configure.

Add a POE camera Onvif to your kit

The POE RKK kits allow you to add IP cameras of other DSE ranges, such as motorized cameras, and even the ONVIF IP cameras from other manufacturers. It 'a very interesting option if you want to retrieve the cameras you already have. However, it is not a plug and play function. You have to know to connect the camera to your network and change its IP address in order to carry out the operation.

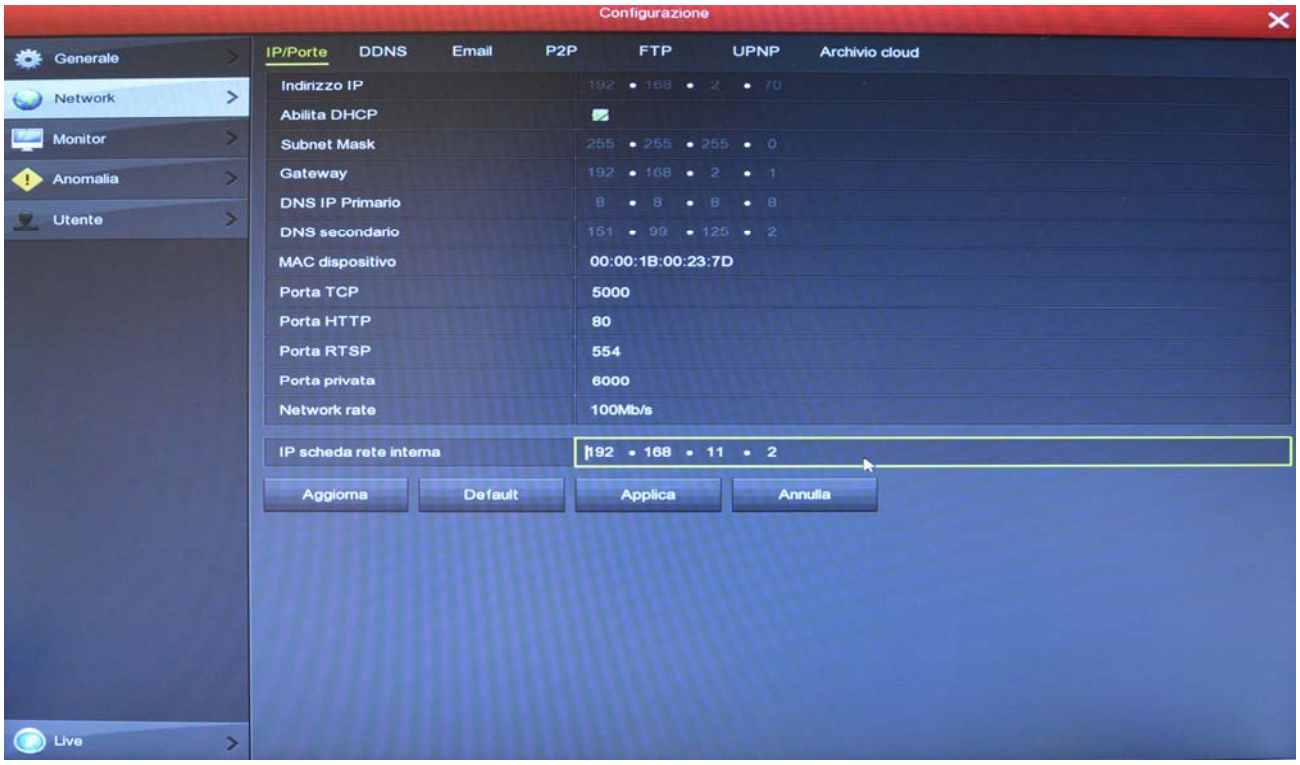
If your camera supports POE power supply you can connect it to a port POE NVR, like the other cameras of the kit. Since you are connecting a different camera from our RK Series will not run the self-configuring plug and play and you will need to manually configure. Proceed as follows:

1 - Access the setup menu section CAMERAS - AGG. CAMERA



In this window you can find the kit that the cameras NVR is configured automatically. See the NVR uses the class of 192.168.11 ... addresses for its internal network and number the cameras in sequence starting from 3.4 etc. If you want to connect an IP camera to the internal network of this NVR you must assign a static IP 192.168.11 .. of the type, for example

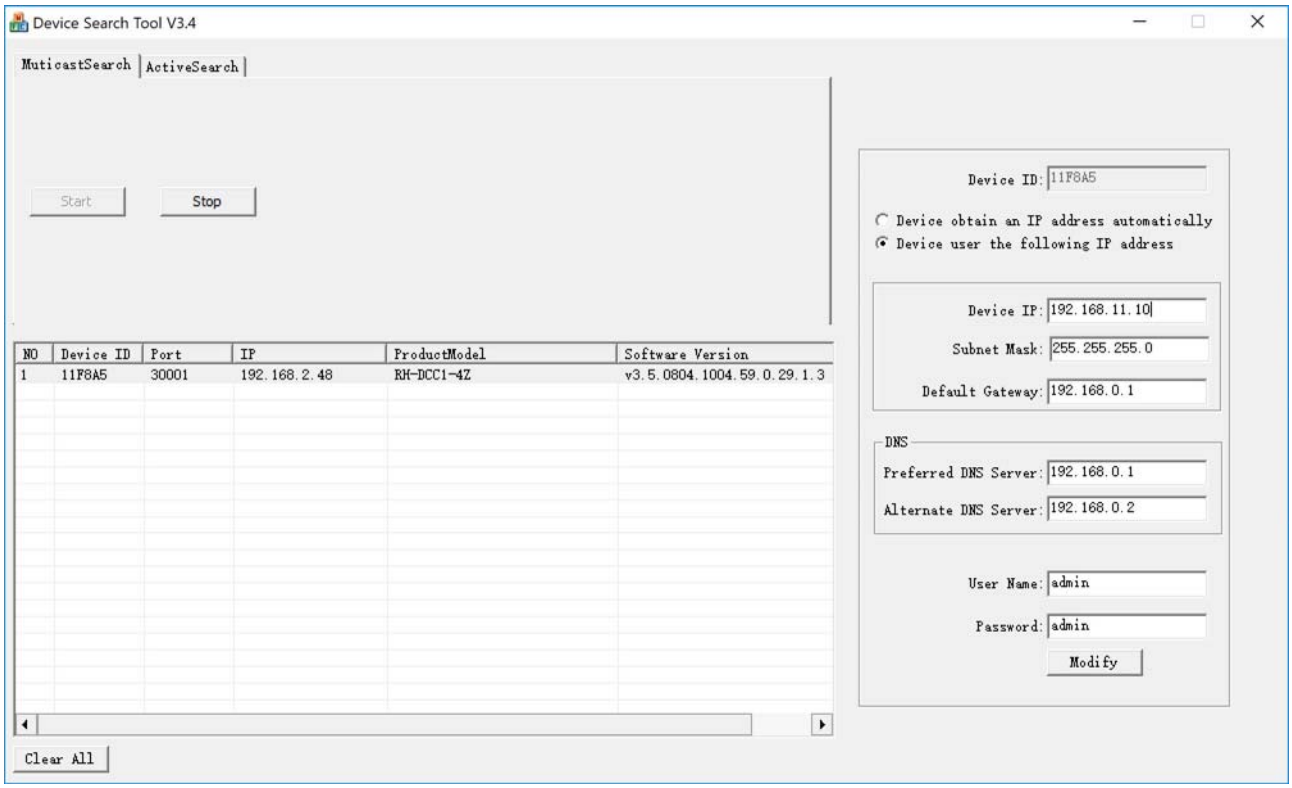
192.168.11.10. If you have not connected any of the kit cameras you can see the class of internal addresses in the network settings



2 - Now that you found out what address assigned to the camera, see the instructions of your camera to how to change the network address. Most IP cameras have a configuration software, or you can change the network settings with a browser. In the network settings you set a static IP address (not DHCP) of the type used by the internal network of the NVR, in the previous example

192.168.11.10. Below, for example, you see the configuration software of our RH series camera. Do not care to change DNS and Gateway: IP address just type

192.168.11 ... and subnet mask of 255.255.255.0, as in this example.

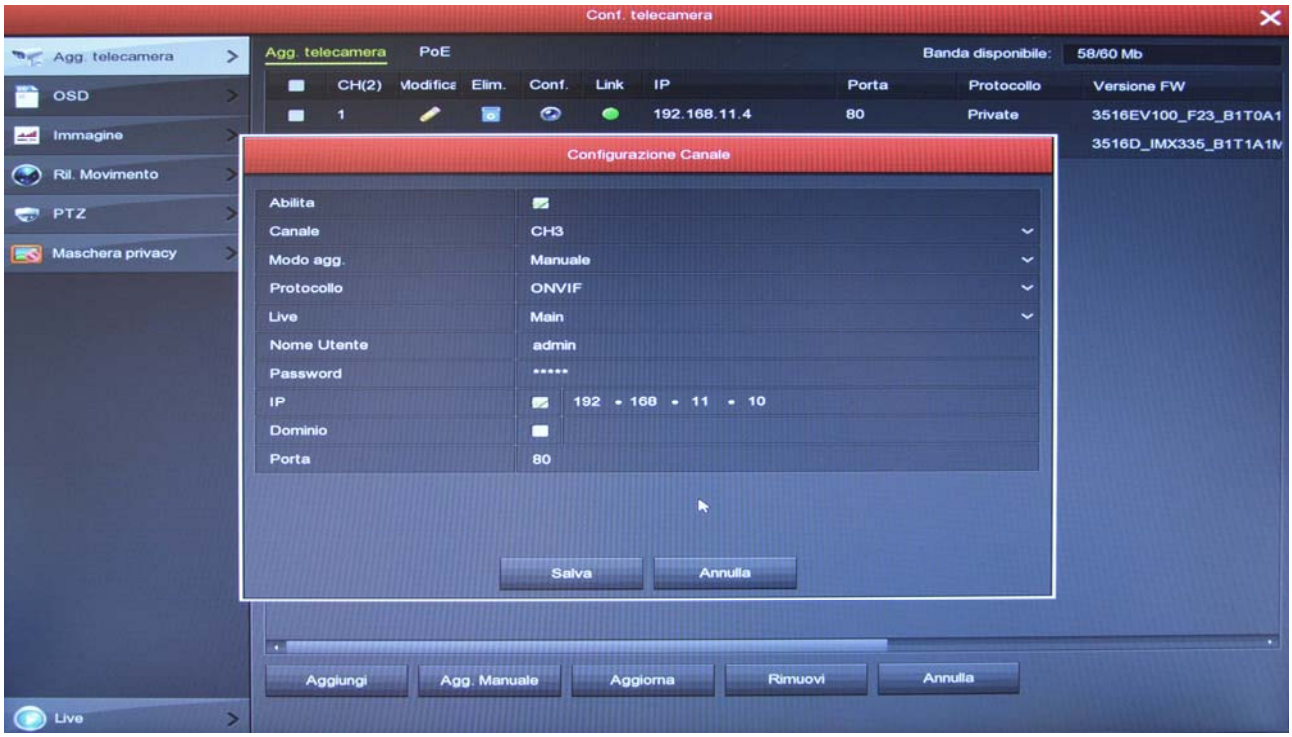


3 - After saving the new parameters, disconnect the camera from your external network and connect it to a POE port of the NVR

4 - Check that the two port LEDs are lit normally, one fixed and one flashing, because this means that the camera communicates from the hardware point of view.

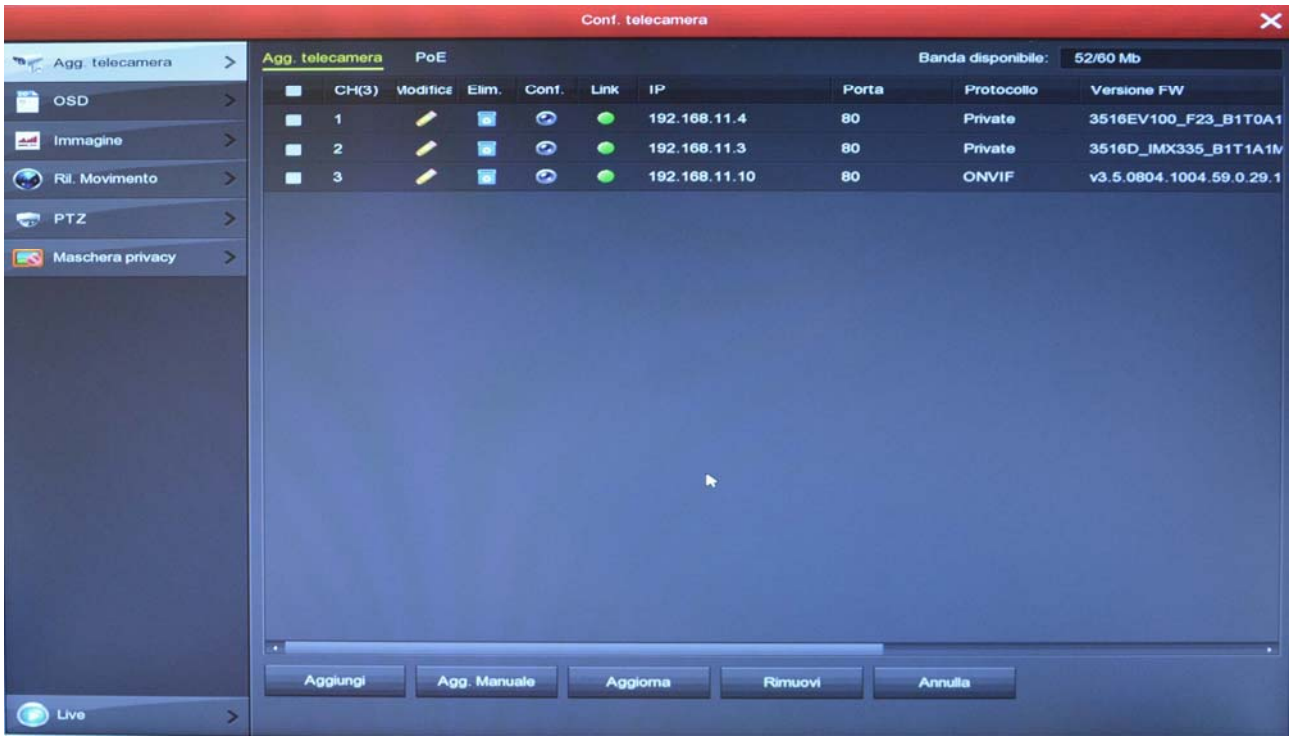
5 - Wait a few minutes until the camera complete the boot cycle

6 - Now you have to add new camera to your kit. Enter the CAMERA / AGG menu. CAMERA and press ADD. MANUAL.



Set the mode of adding in MANUAL and enter the IP that you gave to the camera and the access password. It 'also very important to include the onvif communication port used by the camera (the most common being 80, 8999, 8080, 8000), as it should be in the camera documentation. Finally saves

7 - Finished, your camera is added to the system and is now a new internal camera to your NVR.



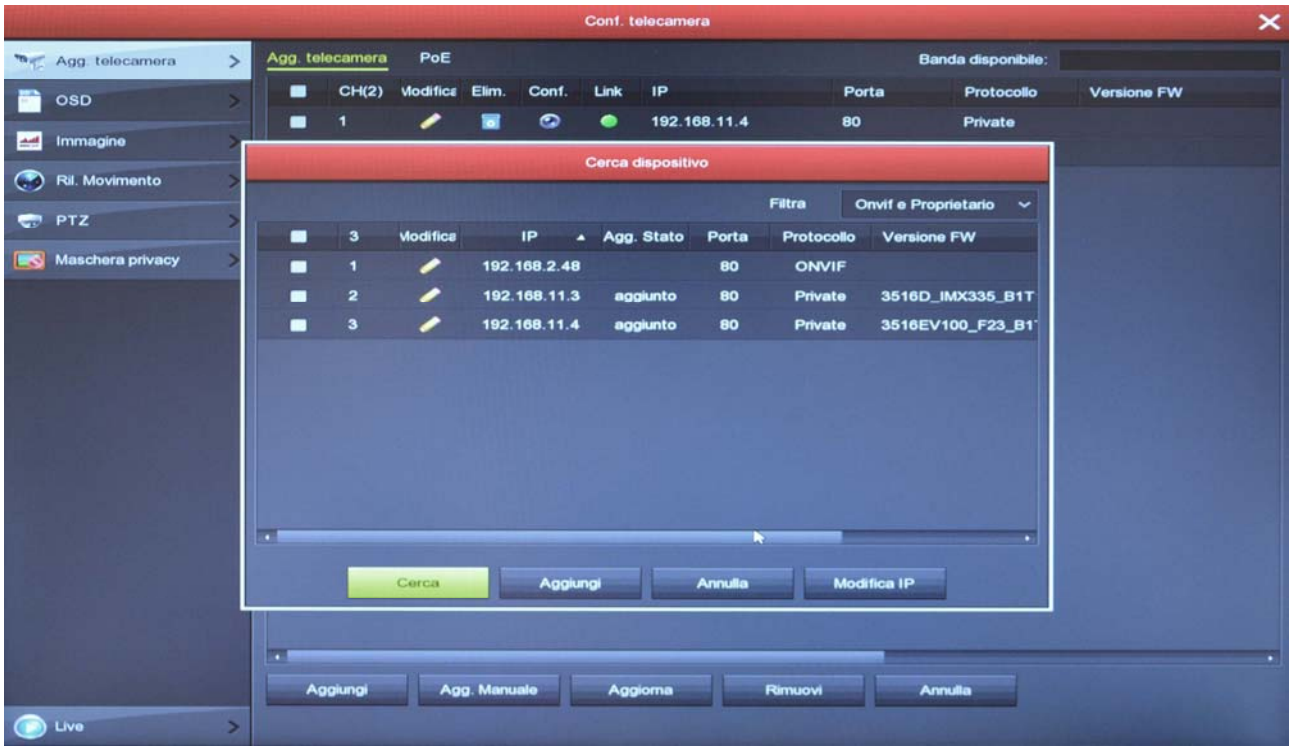
TIP - If you want you can give the new camera an external network address, instead of an address of the NVR internal network. For example if your external network, it is connected to the NET port NVR, use the class, you can assign the address 192.168.1.xxx

192.168.1.10. If you add the camera to a PoE port of the NVR using this address it will still work. It can be handy if you have already assigned to your camera a fixed IP address for your external network, so you do not change it.

CAUTION - While it is technically possible does not recommend that you connect to a port POE NVR camera with automatic IP setting (DHCP). His address would depend on your external DHCP server, usually the router, and may change over time requiring the reconfiguration of the NVR.

Add Onvif external camera to your kit

The POE RKK kits allow you to not only control the cameras connected to the NVR POE ports, but also cameras connected on your external network, one connected to the NET port of NVR. To find and add network cameras can use the CAMERA / AGG menu. CAMERA and the ADD button. This allows the NVR allows you to search all cameras on the network and allows you to add them as external cameras.



In this example, known as the internal camera of the kit have class 192.168.11 --while outdoor camera detected 192.168.2 ---

When you add the camera careful to enter the password to access and correct onvif port for your camera.

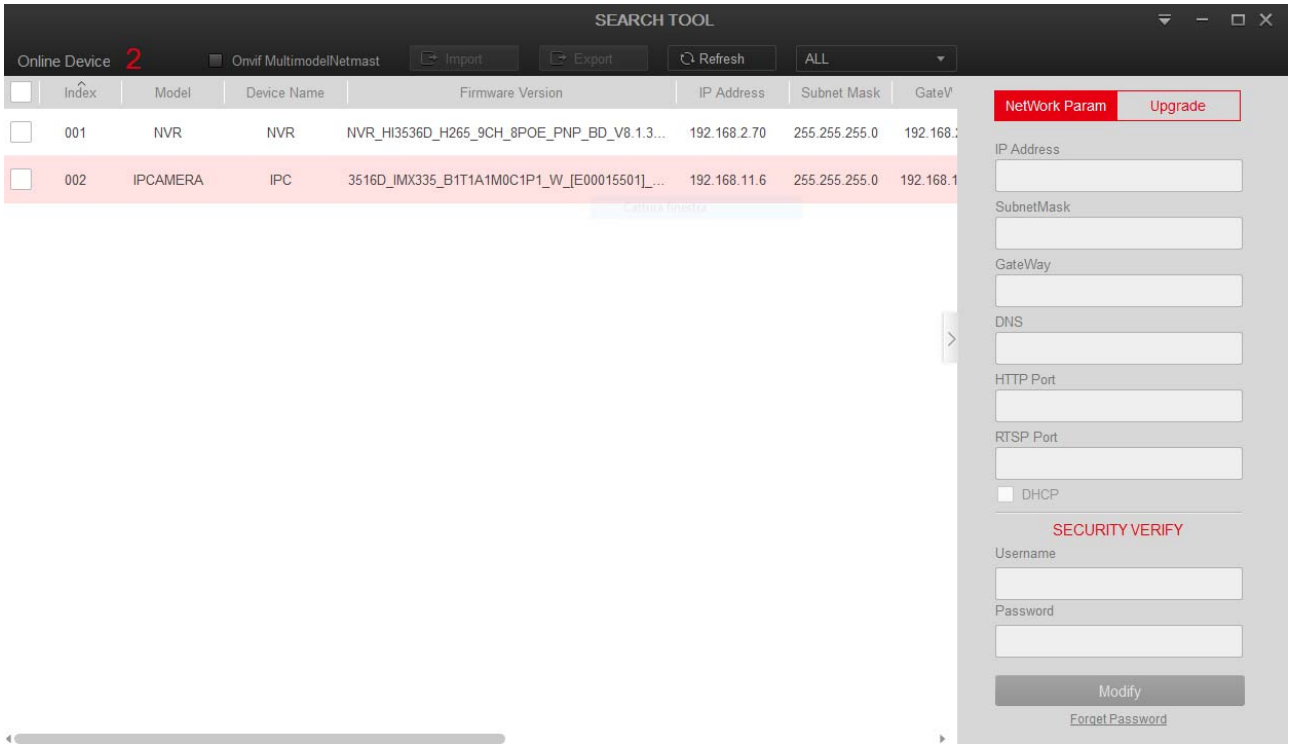
Log in to the internal configuration of the cameras

The cameras of RKK kits are already factory configured for optimal performance for most applications. Through the NVR menu you can adjust the main output of the image parameters.

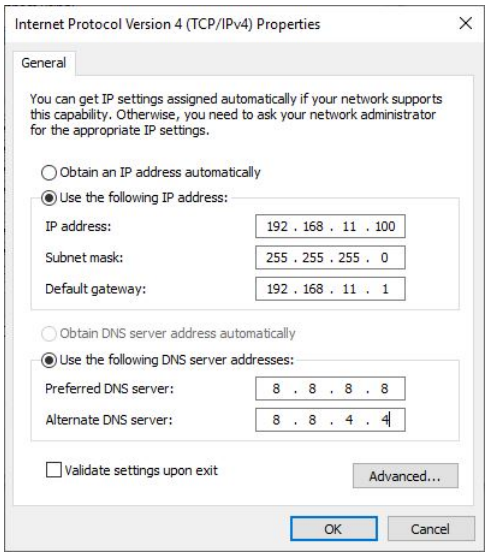
Not as a rule necessary to intervene in the internal configuration of each camera and is even advisable not to do to avoid making incorrect programming. In some cases it may be necessary to intervene in the internal menu of the camera to make advanced adjustments. For example, you have to access the internal configuration menu of the camera to flip the image with the mirror function or change the operation of IR illuminator.

Access to the camera setup menu is performed by the computer with the Internet Explorer browser, as you do with IP cameras. In NVR POE you must also temporarily change the PC's network settings, because the NVR creates its own internal network for the cameras that has several addresses from your network. Proceed as follows:

1 - Connect to our website and download the configuration tool for the cameras RK Series: Search Tool. Run the program on a PC that is connected to the same network NVR. The research program all the RK series devices on the network and will display a window like this. In this example the device is 192.168.2.70 the NVR which has an external network address (in this example 192.168.2 ...), while 192.168.11.6 is the address of the camera connected to the internal network NVR POE.



2 - To be able to communicate with the camera first thing you have to temporarily change your computer's network settings. By setting any address in the class 192.168.11 .. as in the following example.



When finished you can restore your previous settings to communicate again with the external network.

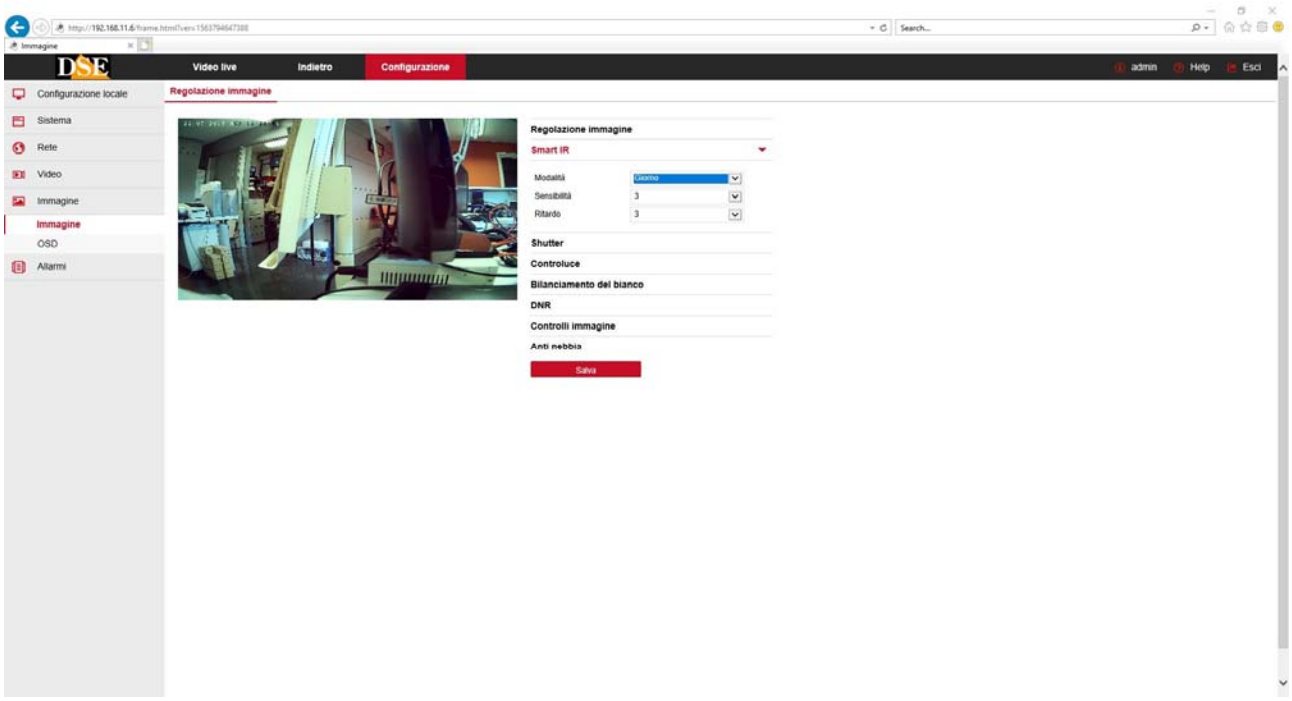
3 - Connect the camera to IP with Internet Explorer. If it is the first connection, download and install the plug-in component. Enter the camera menu by typing credentials

Factory USER: admin PASSWORD: admin Do not use the credentials of the

NVR are another matter.

Inside the configuration page you can find the IMAGE section which contains the video output settings. Consult the manual

configuration of our IP cameras RK series for information.



4 - Repeat the operation with all the cameras you want to adjust by connecting to various addresses. 5 - At the end back into the

PC's network settings and restores the previous network configuration.