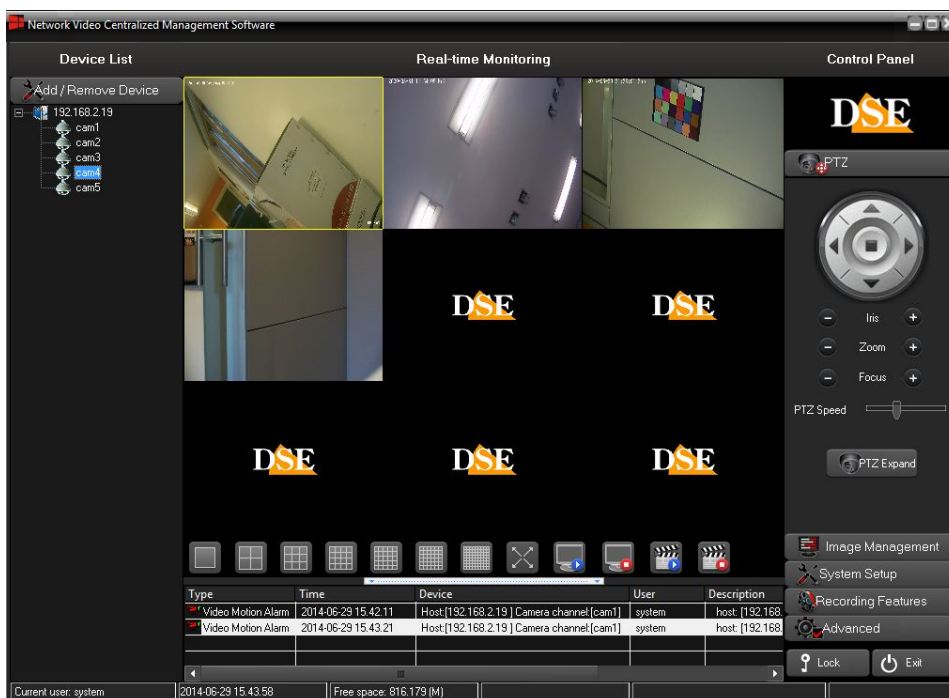




Video recorders Series DN

NVR for IP cameras

AHD DVR cameras / Analogue / IP



CMS Program Manual

How to install and use the client PC program

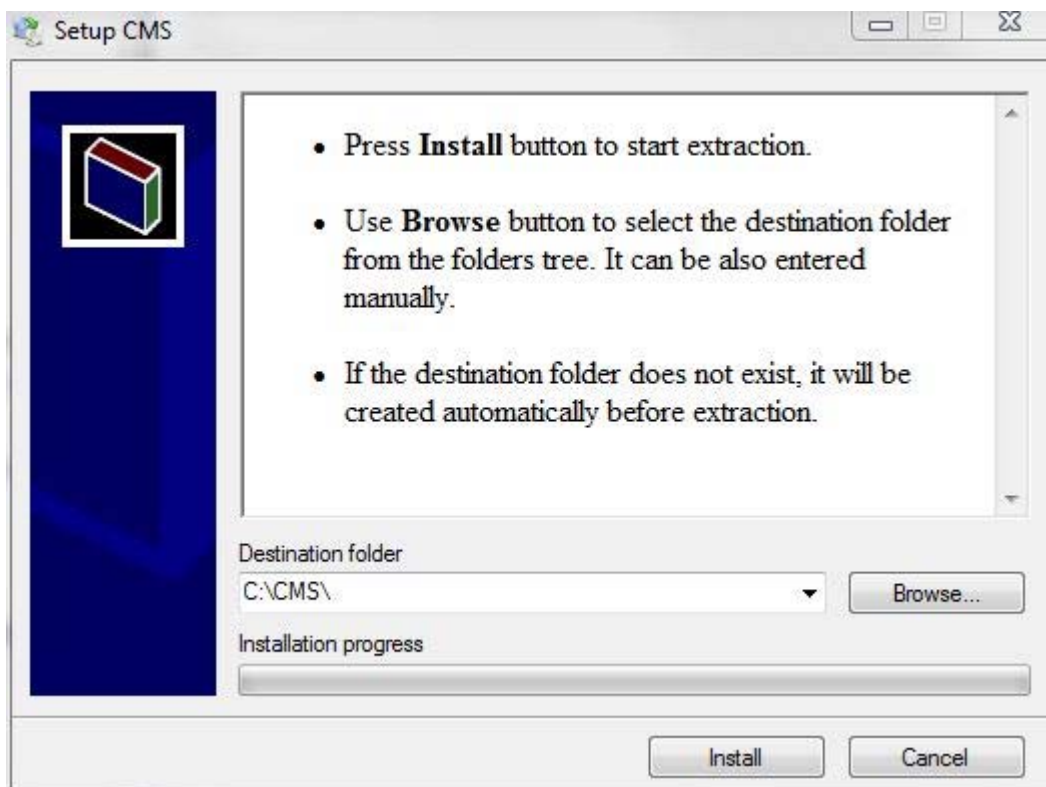


Contents of this handbook

This manual describes how to install and use the CMS program that allows centralized management of many NVR / DVR Series DN from a single computer. The Windows program is included on the CD provided with the product. Note that for remote access to a single NVR is not necessary to use CMS, but you can also simply use Internet Explorer, as described in the installation manual.

Installing the program

The CMS program is on the CD supplied. To install it you must double click on CMSVision and follow the installation steps.



The program is only available in English and is not protected by security codes or keys. You can install it freely on as many computers as you want.

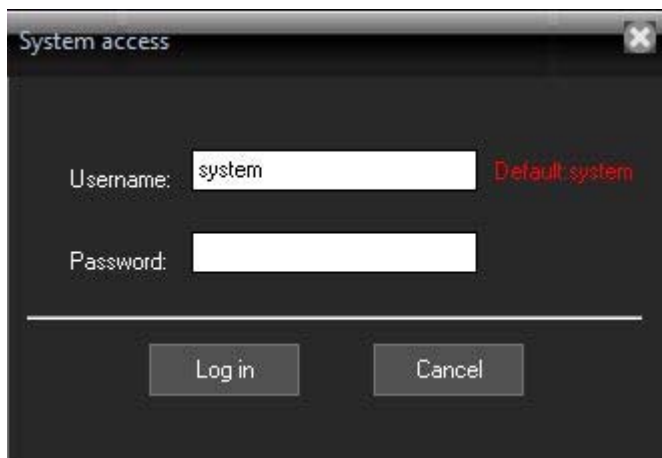
After installation, you can launch the program by double-clicking on CMS.



LOG-IN

The program is password protected.

When you start you are prompted to enter your login credentials.



The factory credentials are:

USERNAME: system

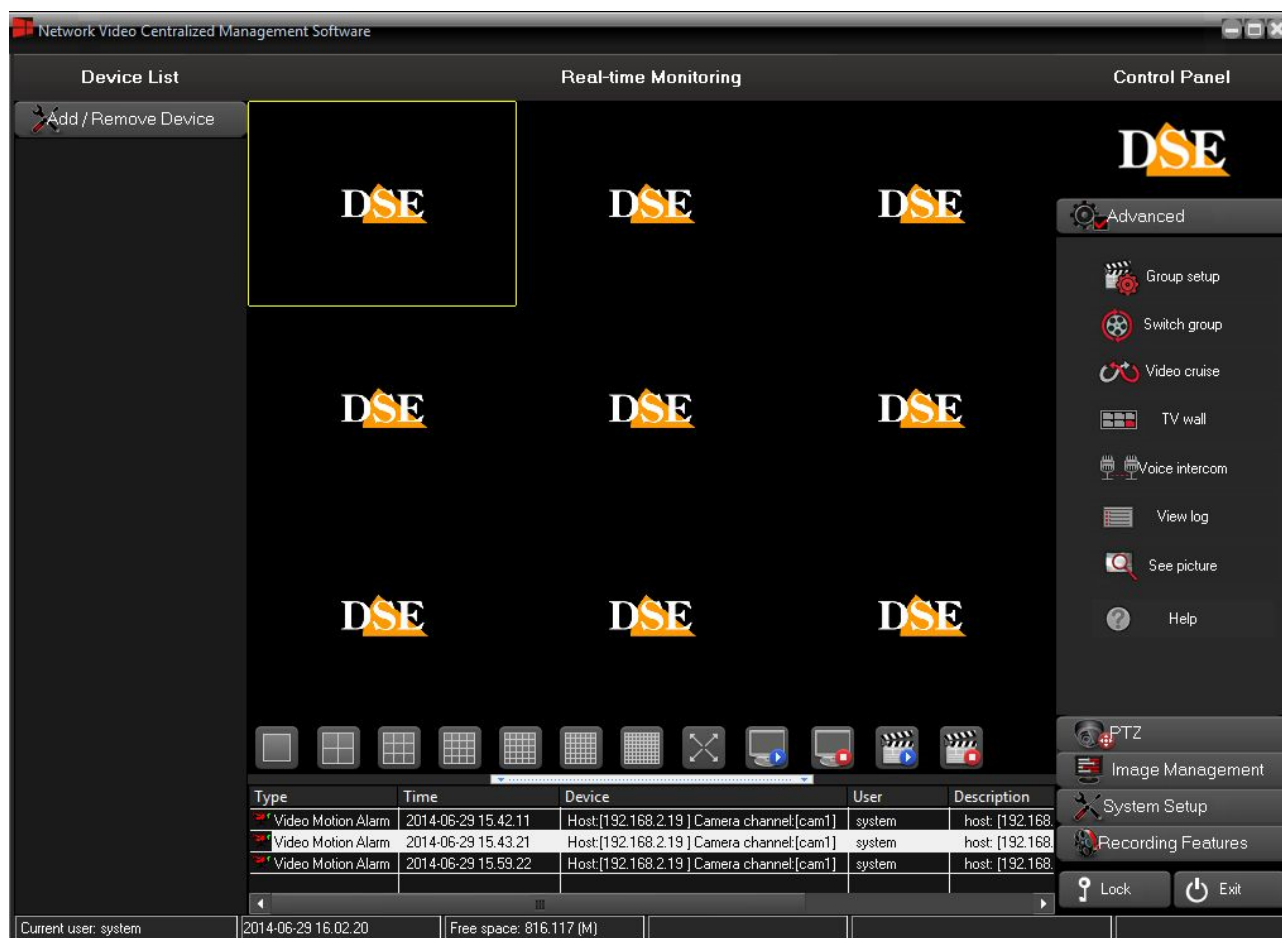
PASSWORD: (leave blank)

This will open the program window

To make the LOG OUT press the LOCK button



That will turn red to indicate that the system will be necessary to control a new LOG-IN.



The CMS main window is divided into different areas. On the left there is the list of NVR / DVR connected to the first access it will obviously be empty. At the center is the camera display area divided into 1,6,9,16,25,36,64 boxes. To the right are the control buttons and menu access. Under the viewing panes finally place the list of alarm events received from connected devices.

To maximize the viewing area you can bring the full-screen window with the usual button in the upper right corner.

Connect your VCRs

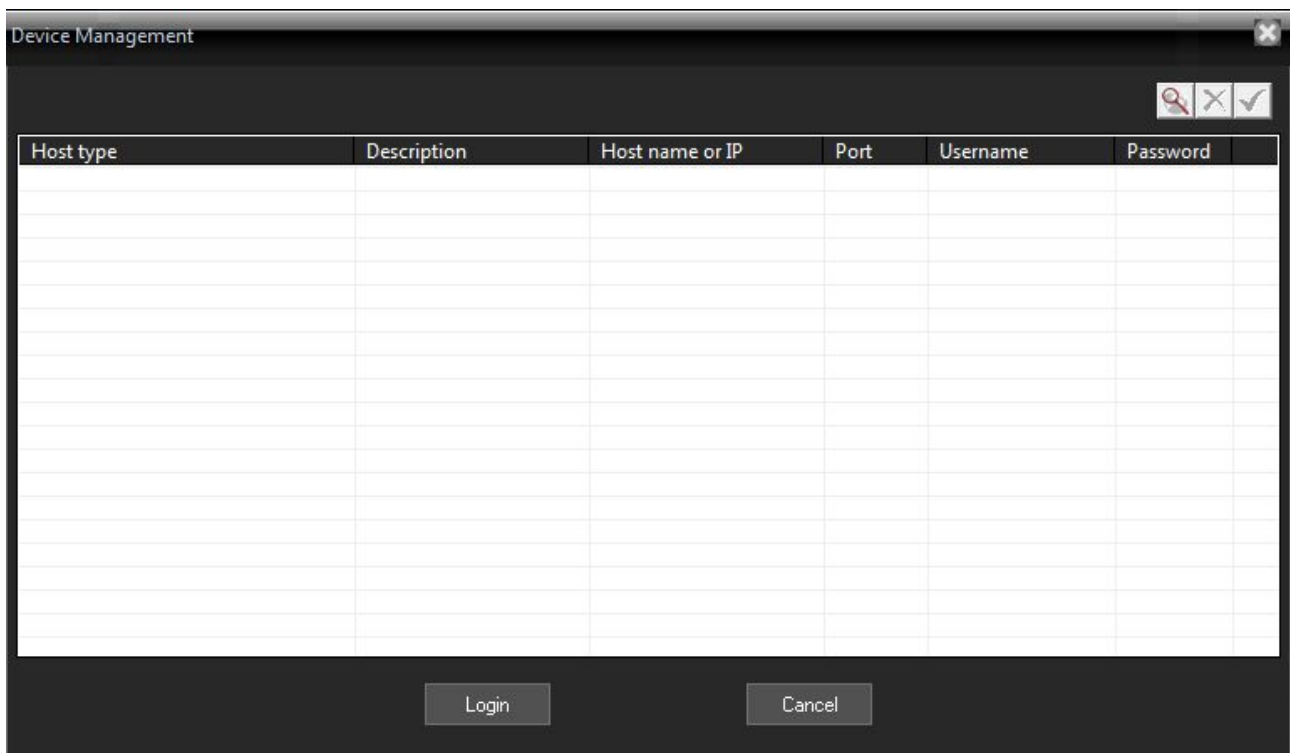
In order to use CMS you must first provide data on NVRs or remote DVR you intend to manage.

ADD A NEW NVR / DVR

To add a VCR first press the button ADD / REMOVE device



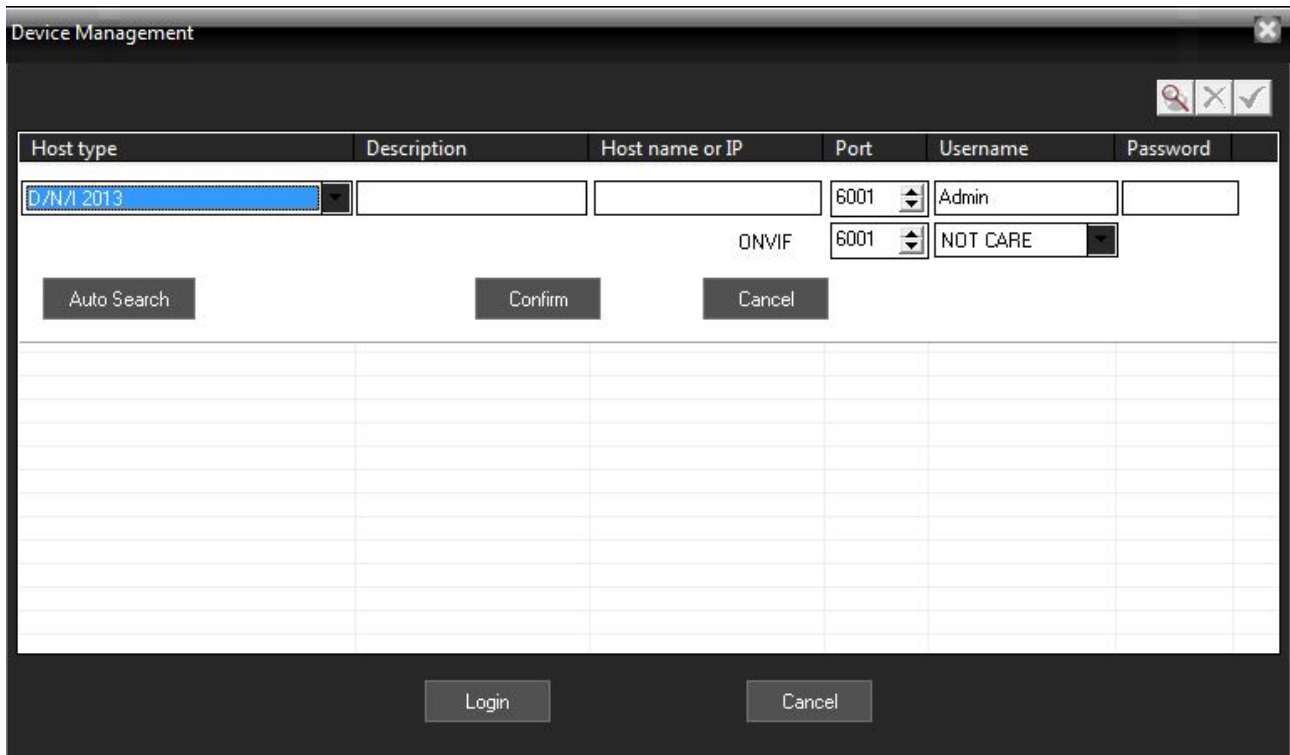
This will open the special device for remote management window

A screenshot of a software window titled "Device Management". The window has a dark theme. At the top right, there are three small icons: a magnifying glass, a cross, and a checkmark. Below these icons is a table with six columns: "Host type", "Description", "Host name or IP", "Port", "Username", and "Password". The table has many empty rows. At the bottom of the window, there are two buttons: "Login" and "Cancel".

To add an NVR or DVR series DN click the button with the magnifying glass at the top right.

ADD A NEW NVR ON LOCAL NETWORK

The program has a convenient automatic search function that allows you to also connect many devices in seconds if installed on the same network as the computer on which the program is installed.



The image shows a 'Device Management' window with a table for adding devices. The table has columns: Host type, Description, Host name or IP, Port, Username, and Password. The first row is pre-filled with 'D/N/I 2013' in the Host type column, and '6001' in the Port column. Below the table, there are buttons for 'Auto Search', 'Confirm', and 'Cancel'. At the bottom of the window, there are 'Login' and 'Cancel' buttons.

Host type	Description	Host name or IP	Port	Username	Password
D/N/I 2013			6001	Admin	

ONVIF 6001 NOT CARE

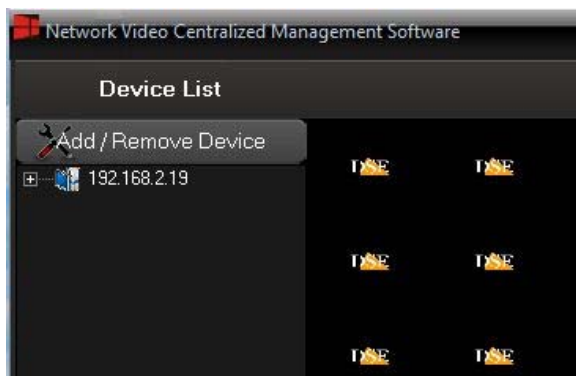
Auto Search Confirm Cancel

Login Cancel

HOST TYPE Keep the default option D / N / I. Even the communication port 6001 and the login credentials can be maintained unchanged except that it is modified in the NVR / DVR configuration. Press AUTO SEARCH. The program will perform a search on the net and find all VCRs connected to the same local network as the computer

[illegible]

Press LOGIN to automatically connect the DVR / NVR to CMS management program. The devices will be in DEVICE LIST



ADD A NEW NVR / DVR ON OTHER NETWORK

The automatic search function of VCRs can work obviously only if PC and NVR / DVRs are installed on the same LAN. If you want to instead connect a VCR placed on another network, such as working through the Internet to connect to a remote site, then you need to enter data manually as in the following example

Device Management

Host type	Description	Host name or IP	Port	Username	Password
D/N/I 2013	192.168.2.19	192.168.2.19	6001	Admin	XXXXXX
D/N/I 2013	DSE sito remoto	93.62.73.56	6001	Admin	
		ONVIF	6001	NOT CARE	

Auto Search

Confirm

Cancel

Login

Cancel

HOST TYPE Keep the default option D / N / I 2013. Enter a description for the NVR / DVR to taste. In this case the IP address must be entered manually, without using the search function. The 6001 communication port and the access credentials can be kept unchanged unless it is modified in the configuration of the VCR.

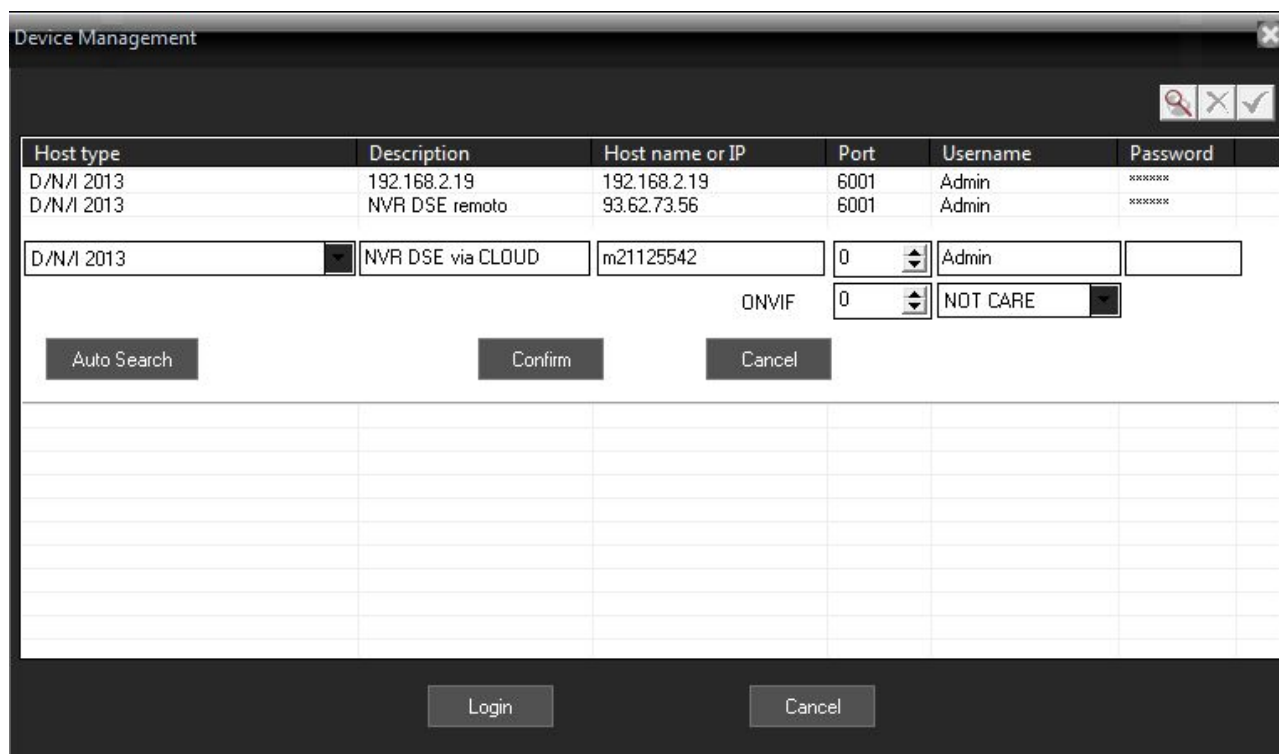
Press and CONFIRM LOGIN.

[illegible]

Note that to connect to a NVR / DVR through the Internet by directly entering the IP address of the router as in this case it is practically essential to have an internet IP address of the static type and it is also necessary to have been mapped in the remote router port 6001 the program uses to communicate with remote devices. More information about port mapping can be found in the installation manual.

ADD A NEW NVR ON OTHER NETWORK THROUGH CLOUD SERVER

If you want to connect a VCR through the Internet you can also use our service CLOUD WWW.DDDNS.ORG that allows it to also connect without having static IP and without performing the mapping of router ports. Also in this case the data in the NVR must be entered in manual mode as in the following example:



The screenshot shows a 'Device Management' window with a table of existing devices and a form for adding a new one. The table has columns for Host type, Description, Host name or IP, Port, Username, and Password. The form below the table has fields for Host type (a dropdown menu), Description, Host name or IP, Port (a dropdown menu), Username, and Password. There are also buttons for 'Auto Search', 'Confirm', and 'Cancel'. At the bottom of the window are 'Login' and 'Cancel' buttons.

Host type	Description	Host name or IP	Port	Username	Password
D/N/I 2013	192.168.2.19	192.168.2.19	6001	Admin	XXXXXXXX
D/N/I 2013	NVR DSE remoto	93.62.73.56	6001	Admin	XXXXXXXX

D/N/I 2013	NVR DSE via CLOUD	m21125542	0	Admin	
			ONVIF	0	NOT CARE

Auto Search Confirm Cancel

Login Cancel

HOST TYPE Keep the default option D / N / I. Enter the desired description and instead of IP address type the serial ID of the NVR (see installation instructions). In connection with the cloud the communication port is set to 0. To avoid errors in the latest firmware versions is a P2P check mark if enabled automatically sets entered the door to 0.

The access credentials can be kept unchanged unless it is modified in the configuration of the VCR.

Press and CONFIRM LOGIN.

[illegible]

DEVICE LIST

All NVRs connected to the CNS program are listed in the Device List on the left



The NVR with the blue icon are actually on-line while the NVR unreachable are indicated with the red icon,

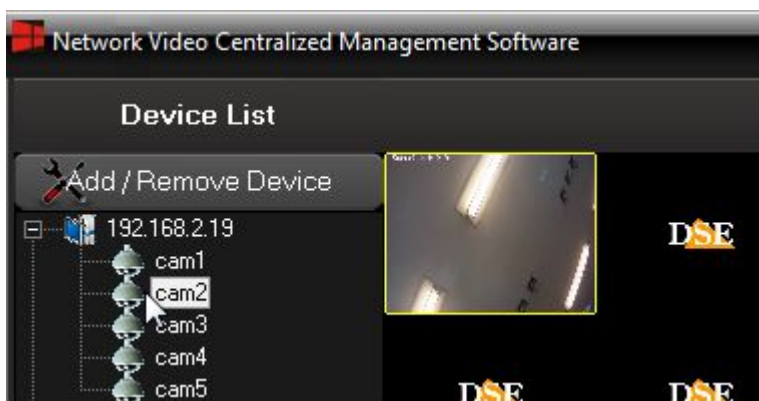


LIVE Vision camera

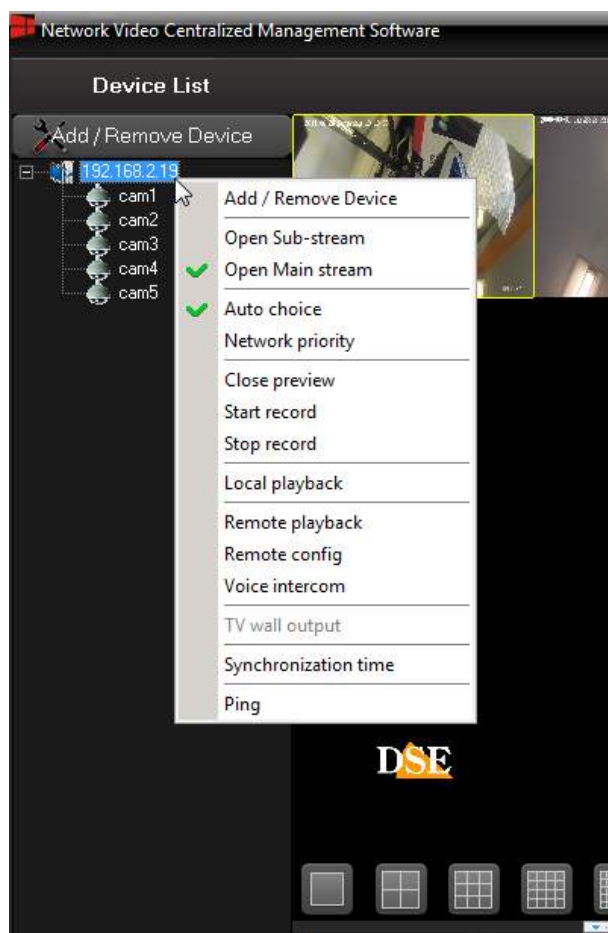
CMS allows you to view on-screen real-time cameras organizing them flexibly.

START LIVE VIEWING

To view the cameras of a DVR / NVR just created, click on the + icon next to the NVR to display camera icons. Then drag the camera in your favorite panel.



E 'you can also start playback and operate several other commands by clicking the right button on the icon of a camera or NVR / DVR



ADD / REMOVE DEVICE - Opens the operating window of the NVR / DVR list.

SUB STREAM OPEN - Opens the vision of the camera in the selected window using the lighter secondary stream. This command runs on the icon of an NVR / DVR opens all cameras connected to it.

OPEN MAINSTREAM - As above, but using the main stream at full resolution.

CAR CHOICE - Choose the video stream automatically open according to Box

NET PRIORITY - Select the video stream automatically priority to the lightness of bandwidth.

CLOSE PREVIEW - Closes streaming video active. This command runs on the icon of an NVR / DVR closes all the cameras connected to it.

START / STOP RECORD - Starts and stops local recording of video streaming. The icon of the recording channel assumes a green color. The video files are saved in .dvr format in RECDATA folder that the program automatically creates all of the hard drives on your PC. It is possible in configuring the program to exclude the use of one or more HDD. For playback of video files using

the SIMPLE-ALONE PLAYER player that is installed along with the program or local playback window

LOCAL PLAYBACK - Access to the search window, and playback of files stored in the PC. This window is described later.

REMOTE PLAYBACK - Access to the search window, and playback of files stored on the VCR remote. This window is described later.

REMOTE CONFIGURATION - Enters the VCR remote configuration window. This window is described later.

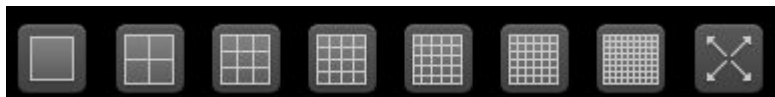
VOICE INTERCOM - Enable bi-directional audio communication if the camera is equipped with a microphone and possibly loudspeaker.

SYNCHRONIZATION TIME - Command active only icon of the NVR / DVR. Synchronize the date and time of the remote DVR with the PC of the CMS.

PING - Opens a DOS window where the ping is performed to detect the network in response of the connected device

BREAKDOWN OF THE VIDEO

Under the video frames are the buttons to decide the split screen mode 1,4,9,16,25,36 or 64 boxes.



The last button with four arrows you access to more specific subdivisions of 6,10, 13,49,81,121 and 144 boxes. It also allows full-screen review (FULL SCREEN) of single cameras without the control buttons and the program frame.

E 'can carry a single camera full screen by double clicking on it.

GLOBAL CONTROLS

Under the video frames are 4 global system control buttons



These buttons allow you to:

- Open streaming video from all connected cameras
- Close the video streaming of all connected cameras
- Start recording of all active channels
- Stop recording of all active channels

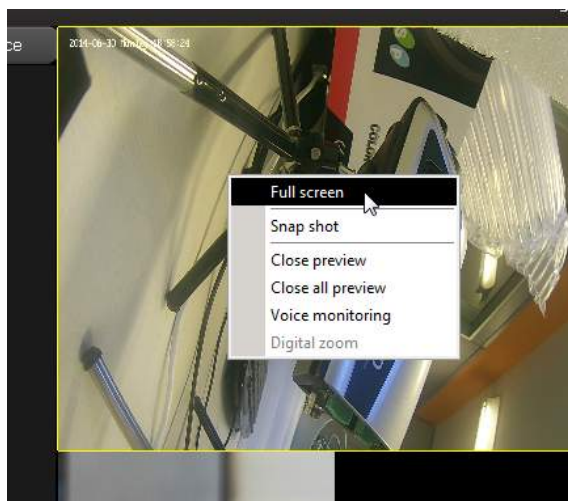
EVENT LIST

The alarm events that occur in the NVR / DVR such as motion measurements, are packed up real-time to the CMS program that lists them under the video frames in the table.

Type	Time	Device	User	Description
* Video Motion Alarm	2014-06-30 15.40.40	Host:[192.168.2.19] Camera channel:[cam1]	system	host: [192.168.2.19] camera channel: [cam1] motion alarm!
* Video Motion Alarm	2014-06-30 15.52.35	Host:[192.168.2.19] Camera channel:[cam1]	system	host: [192.168.2.19] camera channel: [cam1] motion alarm!
* Video Motion Alarm	2014-06-30 17.36.10	Host:[192.168.2.19] Camera channel:[cam1]	system	host: [192.168.2.19] camera channel: [cam1] motion alarm!
* Video Motion Alarm	2014-06-30 17.42.07	Host:[192.168.2.19] Camera channel:[cam1]	system	host: [192.168.2.19] camera channel: [cam1] motion alarm!
* Video Motion Alarm	2014-06-30 18.17.34	Host:[192.168.2.19] Camera channel:[cam1]	system	host: [192.168.2.19] camera channel: [cam1] motion alarm!

CONTEXT MENU

By clicking with the right mouse button on a camera activates a context menu with some commands aggiuntivo



FULL SCREEN - Enables full-screen review (FULL SCREEN) of single cameras without the control buttons and the program frame.

SNAPSHOT - Take a picture and saves it into memory

CLOSE PREVIEW - Closes streaming video channel

CLOSE ALL PREVIEW - Closes all active video streaming

VOICE MONITORING - Activate channel audio

DIGITAL ZOOM - Inactive

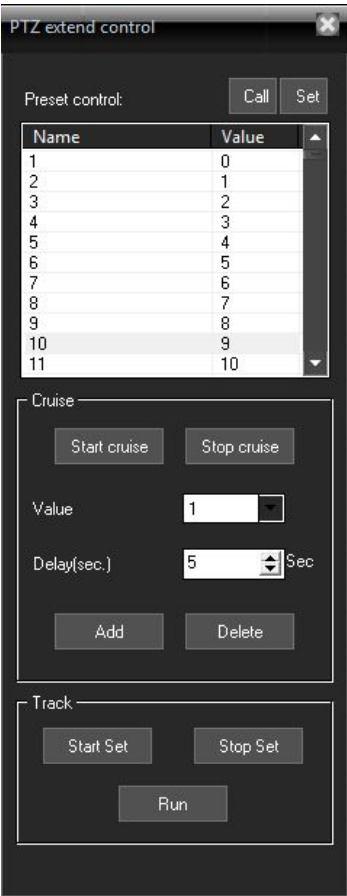
PTZ CONTROL

If you have connected to the VCR speed dome cameras you can easily control them with the CMS program by right-clicking the PTZ button



In order to use the controls must first be selected with the mouse motorized camera so that it is highlighted by the yellow outline. The panel includes the navigation functions, aperture, zoom and focus. It 'also controlled the movement of the camera speed. Some commands may not be effective depending on the camera settings.

By clicking PTZ Expand leads to additional more advanced PTZ controls where it is possible to use the automatic movements of the camera as a preset, Cruise and Pattern (Track).



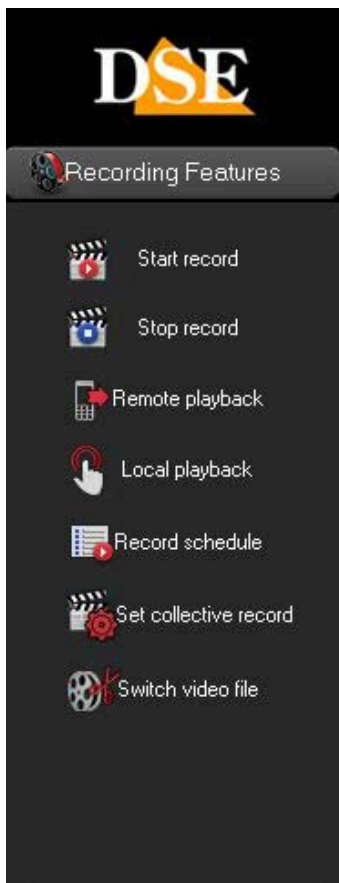
PICTURE

The feature is not available in the VCR control.



Recording and Playback

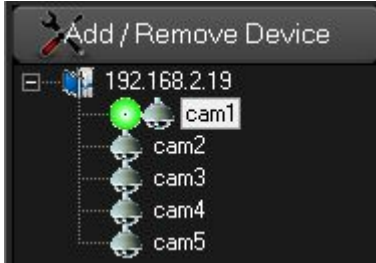
With a CMS program, you can record the local hard disk images coming from the NVR / DVR remote. To check the recording options, press the button RECORDING FEATURES



The following describes the various options available in this menu.

START RECORD

Starts recording of the selected channel. The icon of the recording channel is flanked by a green dot indicating the current recording on a scheduled basis



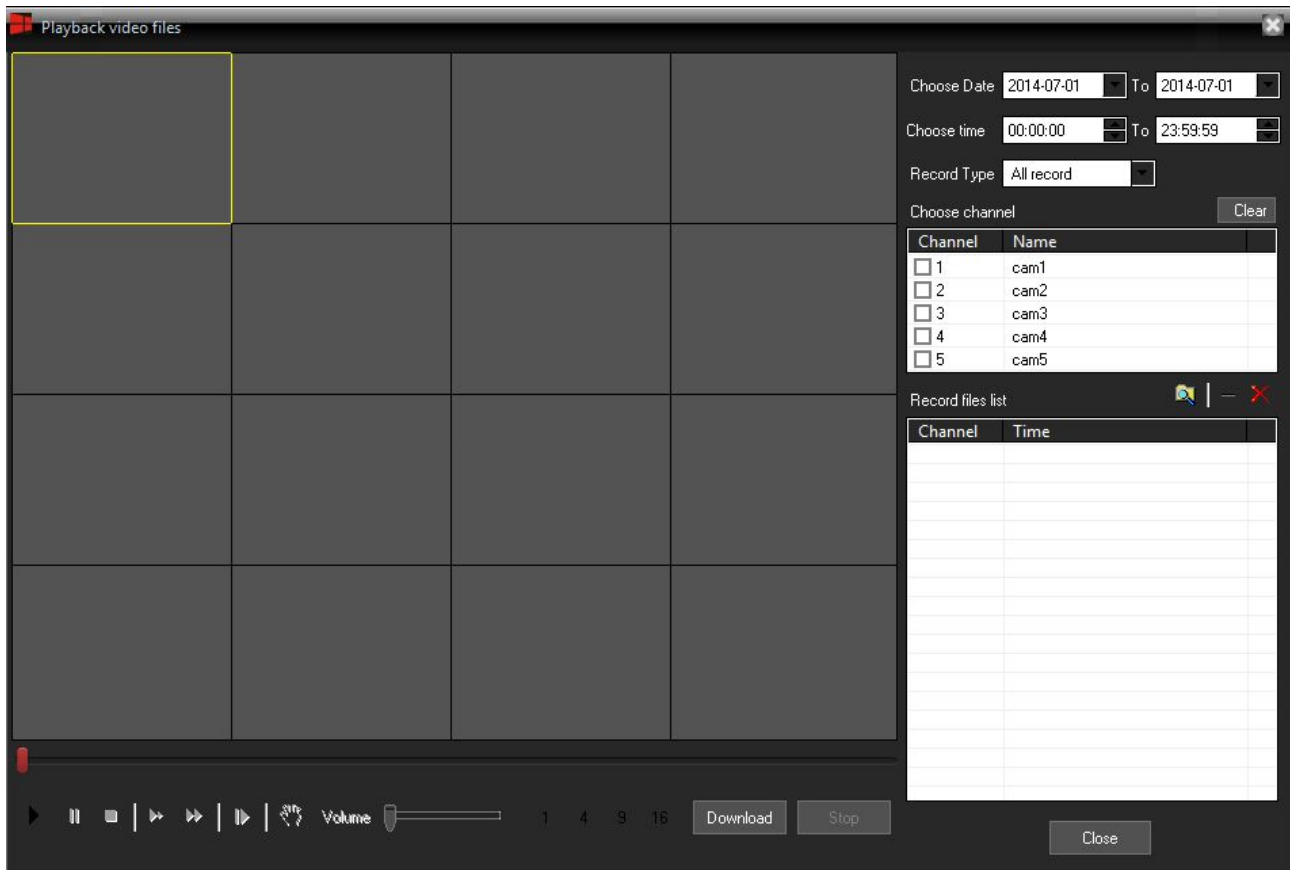
STOP RECORD

Stops recording the selected channel.

The video files are saved in .dvr format in RECDATA folder that the program automatically creates all of the hard drives on your PC. It is possible in configuring the program to exclude the use of one or more HDD. For playback of video files using the player that is installed along with the program or local playback window.

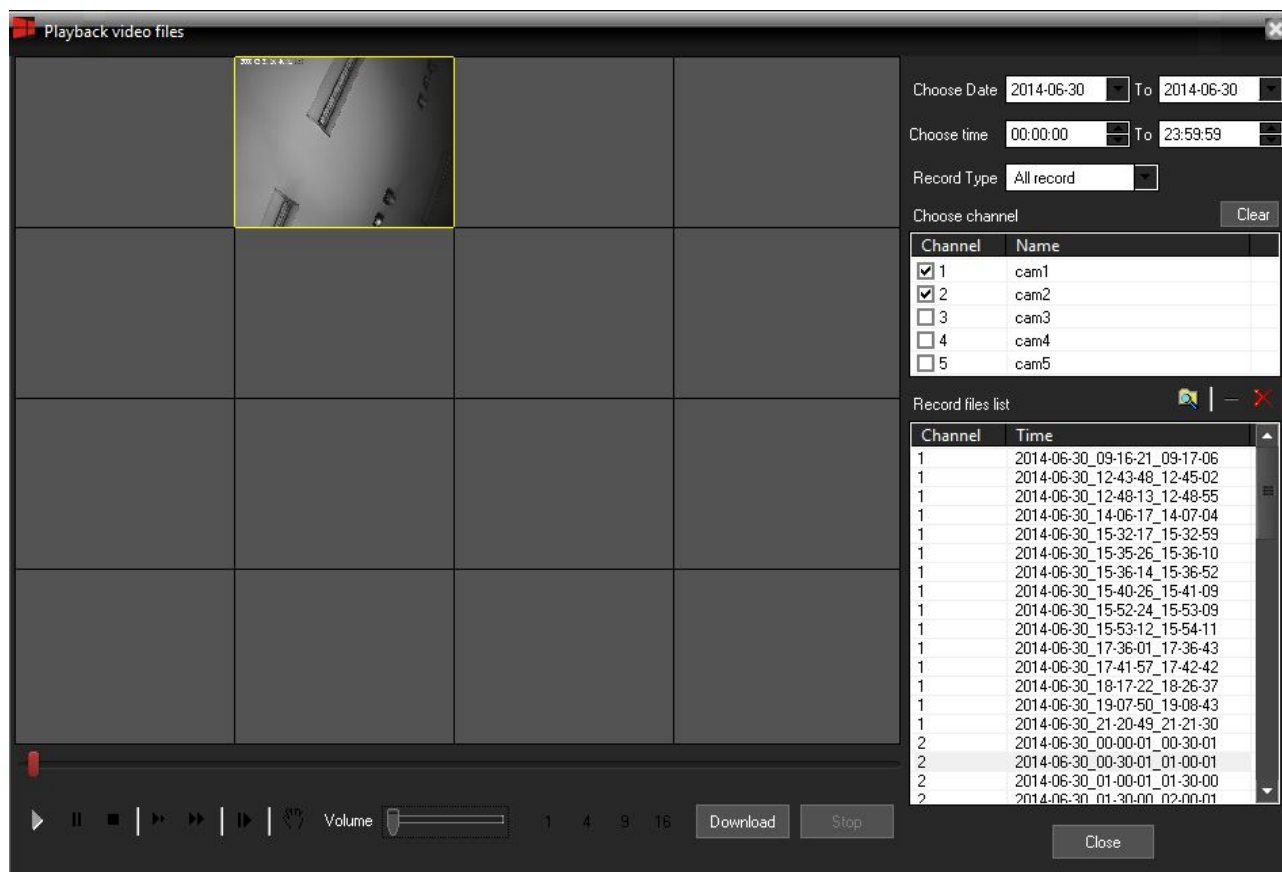
REMOTE PLAYBACK

It opens the window that allows you to browse and play back video files stored on the VCR remote.



To the right is defined as the time slot in which more and search video files and recording type (Continuous, Motion, All). Then they choose the channels to be considered in the search and press the search button with the magnifying glass.

The list of recordings will appear in the list below and simply double click on a file to start playing

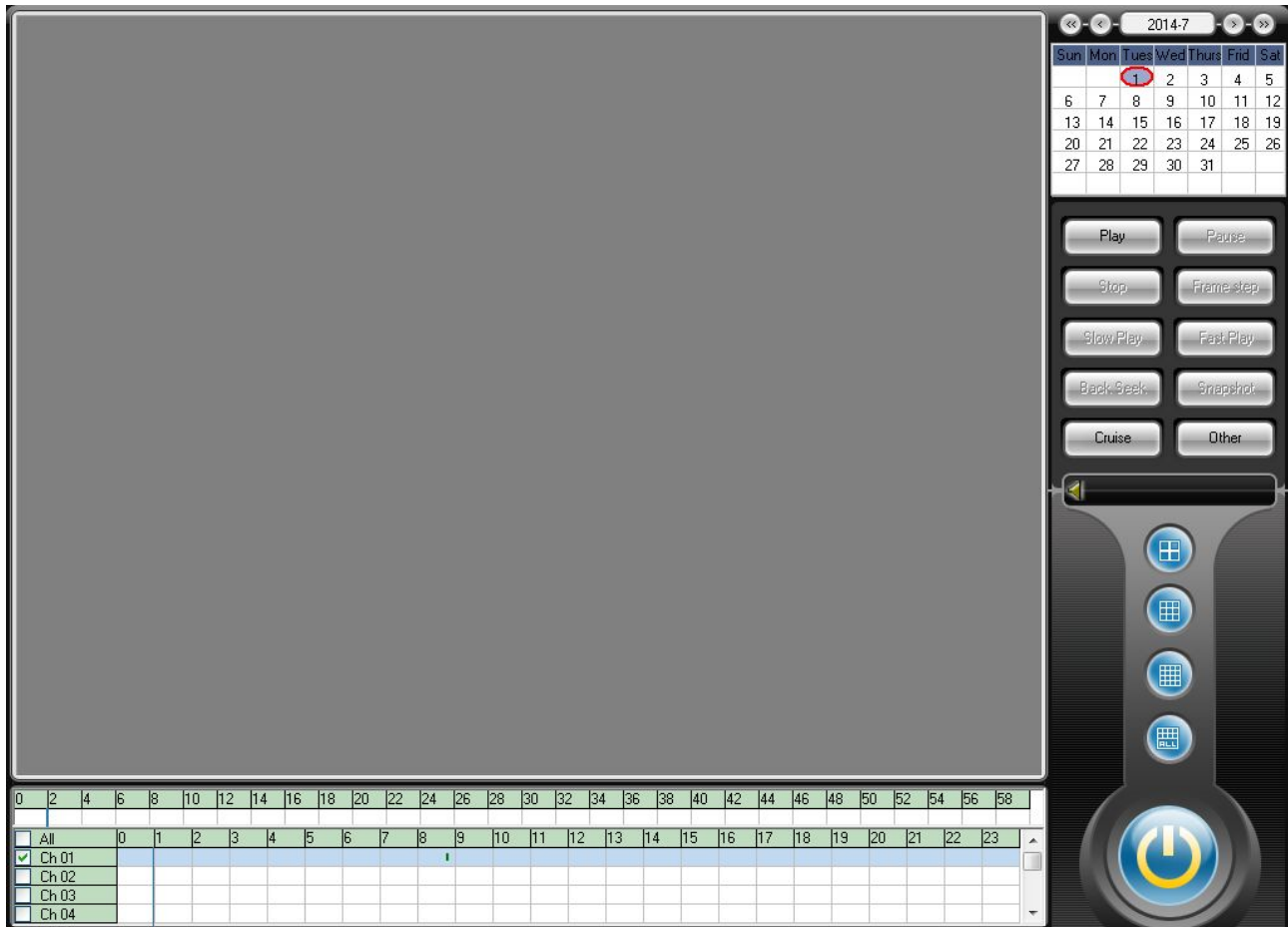


At the bottom left there are the usual commands to control playback and it is possible to select the multivision screen mode (1,4,9,16 quadrants)

With the DOWNLOAD button to download the video files selected computer hard drive in .264 format. Playable with all common readers.

LOCAL PLAYBACK

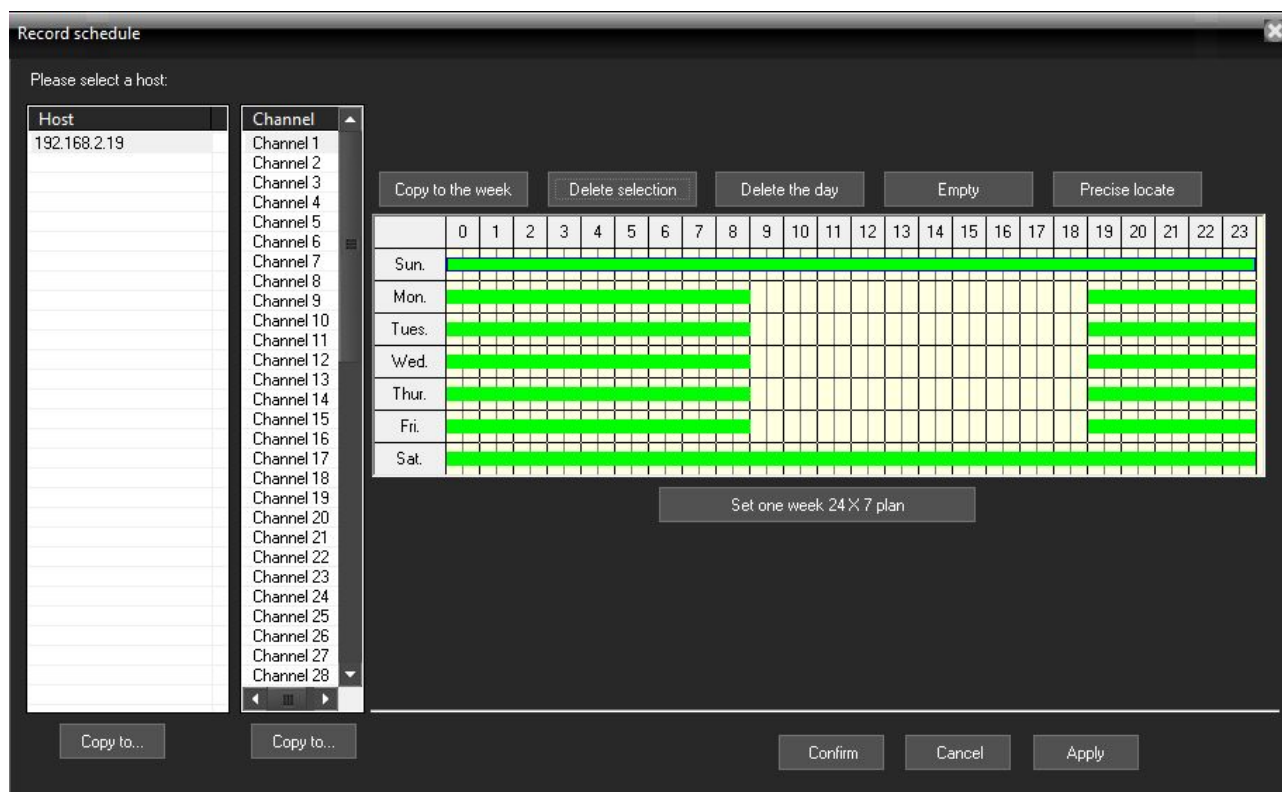
It opens the window that allows you to search and play the video files stored in the hard disk of the computer during the recording of images coming from video recorders.



Just select the top right the interest day to see appear in the bottom timeline recordings made by the CMS program that day. Click on the timeline to start playing. On the right are the usual playback controls available and monitor division buttons.

RECORD SCHEDULE

The program allows you to record video recorders cameras connected according to a weekly programming



As first thing you choose in column HOST left the NVR among those connected to the program and in the second column of the channel CHANNEL NVR. Then in the weekly grid to the right you drag the mouse to define green bars the recording periods. In the picture above, for example, registration takes place only in the non-working hours.

In the grid there are some buttons to make selection fast

COPY TO THE WEEK - Copy programming a selected day in all other days

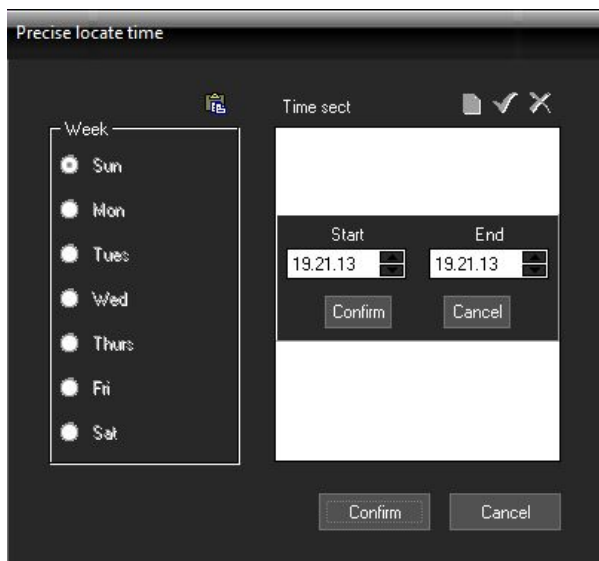
SELECTION DELETE - Deletes the selected band

DELETE THE DAY - Delete all the programming of the selected day

EMPTY - Clear All

September ONE WEEK 24/7 - Recording program continues every day.

PRECISE LOCATE - Allows you to define more precise time intervals DA..A



With the COPY TO buttons it is possible to copy the programming from one channel to another and from one NVR to another.

September COLLECTIVE RECORD

not used Function

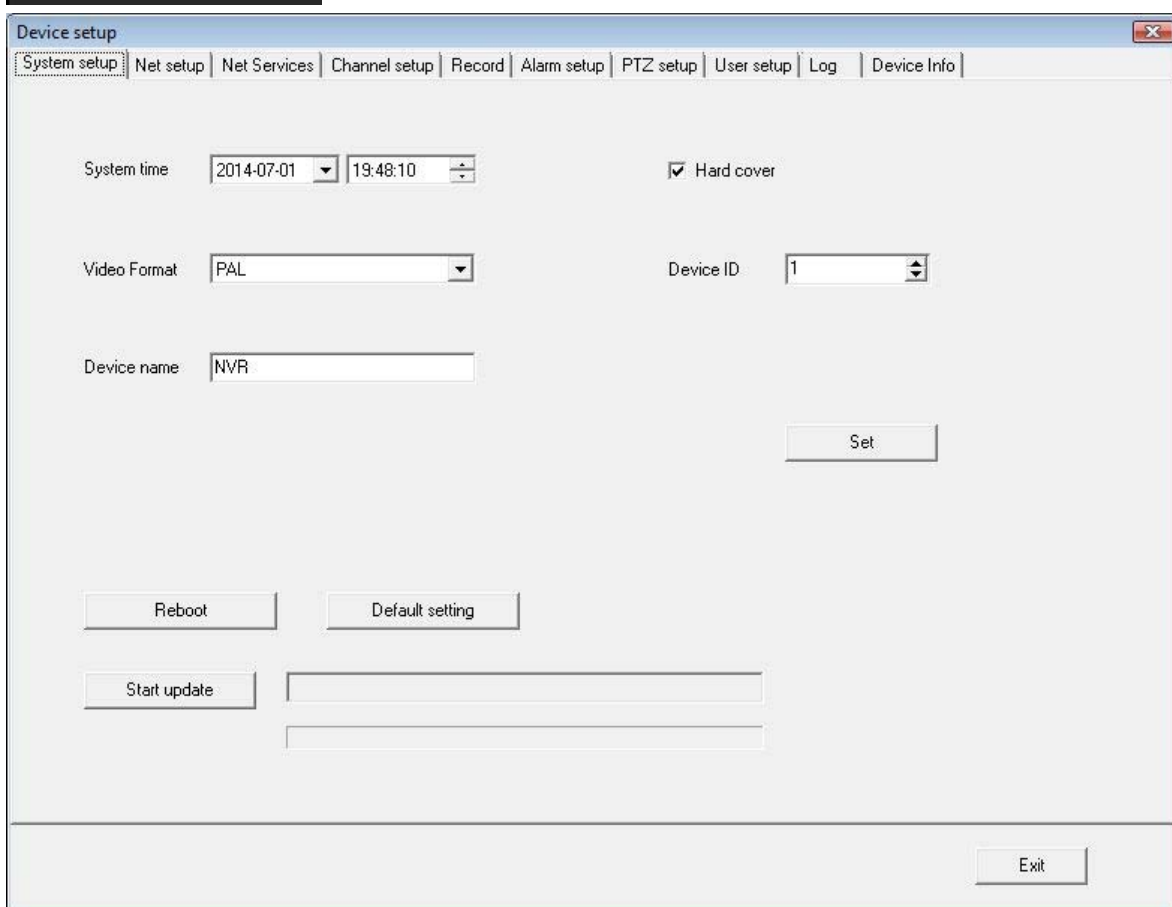
SWITCH VIDEO FILES

not used Function

Tele-Programming

With a CMS program, you can make the whole reservation of NVR / DVR remotely.

Click SYSTEM SETUP and choose REMOTE CONFIG in the right pane to open the programming mask

A screenshot of the 'Device setup' window. The window has a title bar and a menu bar with the following items: 'System setup' (highlighted), 'Net setup', 'Net Services', 'Channel setup', 'Record', 'Alarm setup', 'PTZ setup', 'User setup', 'Log', and 'Device Info'. The main area contains several configuration fields: 'System time' with a date dropdown set to '2014-07-01' and a time spinner set to '19:48:10'; a checkbox labeled 'Hard cover' which is checked; 'Video Format' with a dropdown set to 'PAL'; 'Device ID' with a spinner set to '1'; and 'Device name' with a text box containing 'NVR'. There is a 'Set' button to the right of the 'Device name' field. At the bottom, there are three buttons: 'Reboot', 'Default setting', and 'Start update'. The 'Start update' button is next to two empty text input fields. An 'Exit' button is located in the bottom right corner.

In this section you can configure, in comfortable tables, all programming options that are accessible through the local menu of the VCR. In this manual you are not addressed these



programming pages as described in detail in the configuration manual.

Program settings

Pressing the SYSTEM SETUP button you can program a few options related to the operation of the CMS program.



LOCAL SETUP

Opens the following window with the program settings on the local PC.

The image shows a 'Local setup' window with two tabs: 'System setup' and 'User management'. The 'System setup' tab is active. It contains several sections: 'Start-up OS' with checkboxes for 'Run automatically' and 'Automatic login OS', followed by 'Admin Pwd.' and 'Confirm Pwd.' input fields; 'Video Store' with a 'Video disk:' section showing a list of drives (c:, f:) with checkboxes, and an 'Enable normal pack record time' checkbox; and 'Other' with checkboxes for 'Detect decoder cards' and 'Automatically lock system', followed by a '30' value in a spinner box and 'Sec', and an 'Alarm delay' section with a '20' value in a spinner box and 'Sec'. At the bottom right are 'Confirm', 'Cancel', and 'Apply' buttons.

AUTOMATICALLY RUN - Start the CMS program automatically when Windows starts

AUTOMATIC LOGIN OS - E 'authentication can be performed automatically at the operating system if it requires specifying the next password.

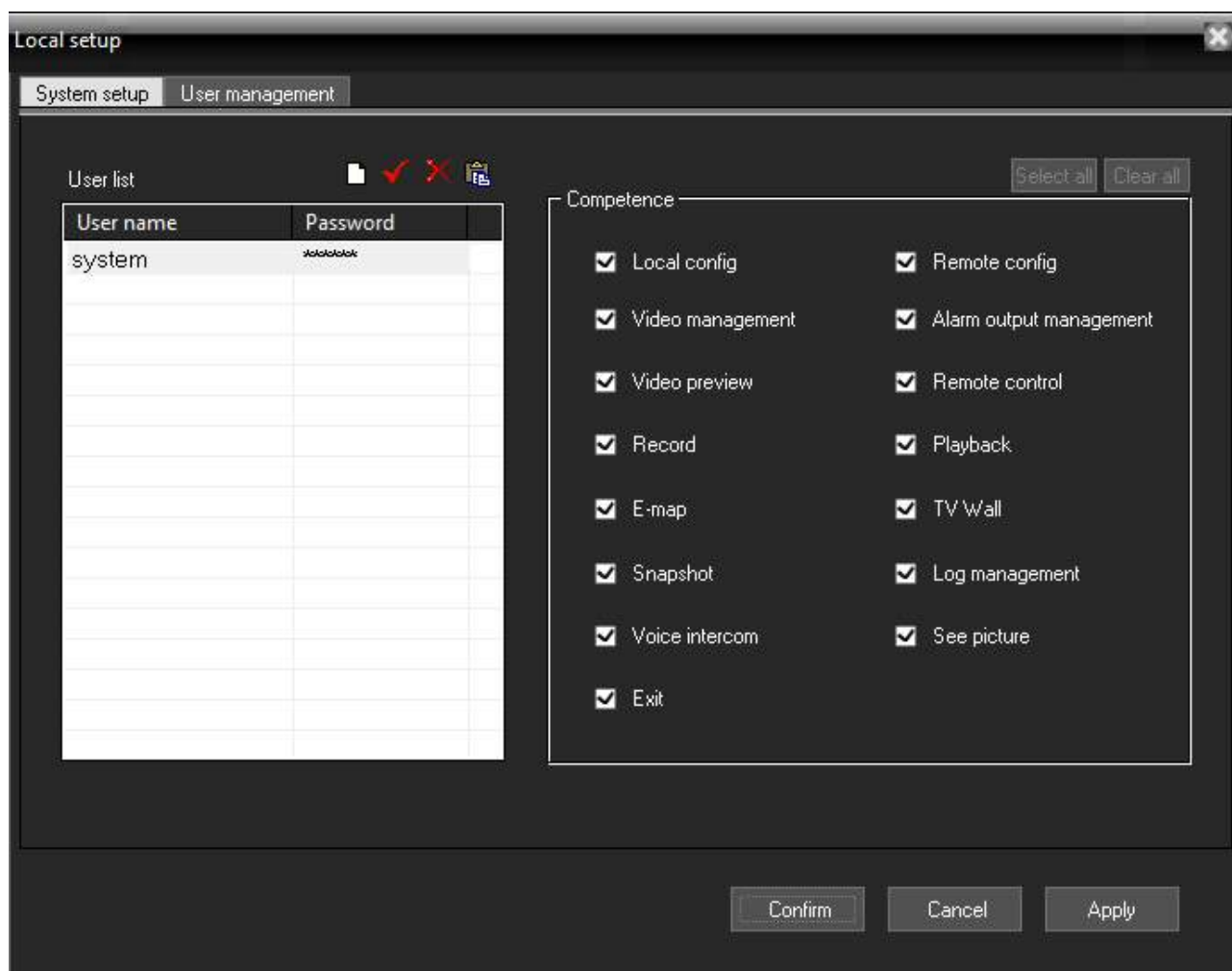
VIDEO STORE - The program automatically creates on each hard drive connected to your PC RECDATA a folder to store video files. Here you can disable one or more HDD that in this way will not be used for recording.

ENABLE NORMAL TIME RECORDING PACK - E 'can split the recording into several consecutive video files and determine the duration (PACK RECORD TIME).

DELETE decoder CARDS - Not used

AUTOMATICALLY LOCK - After a time to be specified idle the system is frozen and the key to the LOCK button will turn red. To unlock the key LOCK click and login.

ALARM DELAY - Adjusts the duration of local alarm when an event occurs in an NVR



The second of the LOCAL SETUP folder allows you to create new users who may have access to the CMS program. Each user can be assigned a level of access to the various functions by checking the options on the right.

REMOTE CONFIGURATION

It opens the window that allows you to configure the programming of the NVR / DVR remotely. See above.

DEVICE MANAGEMENT

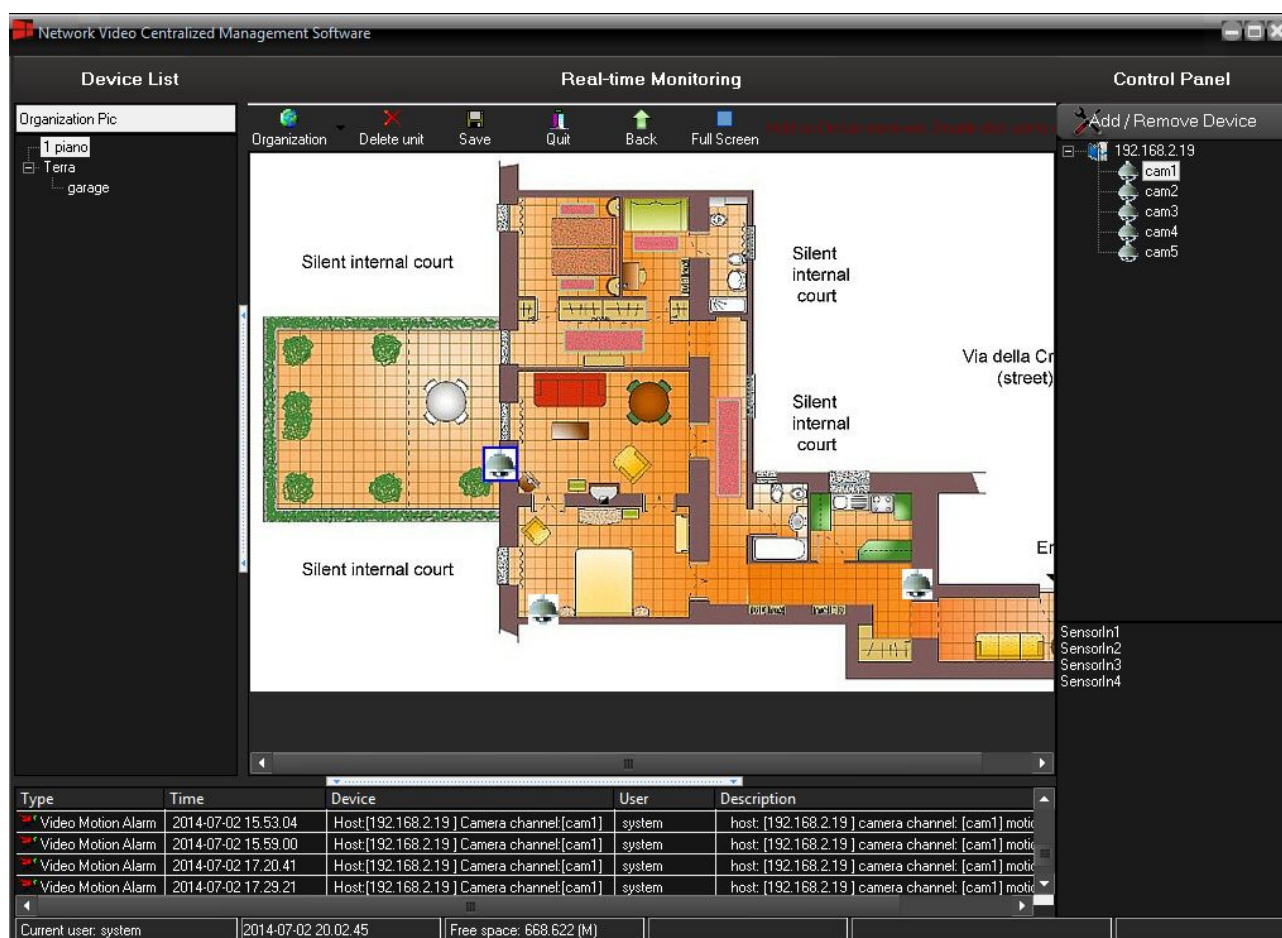
Opens the configuration window of NVR already described in the manual in chapter CONNECTION NVR.

E-MAP

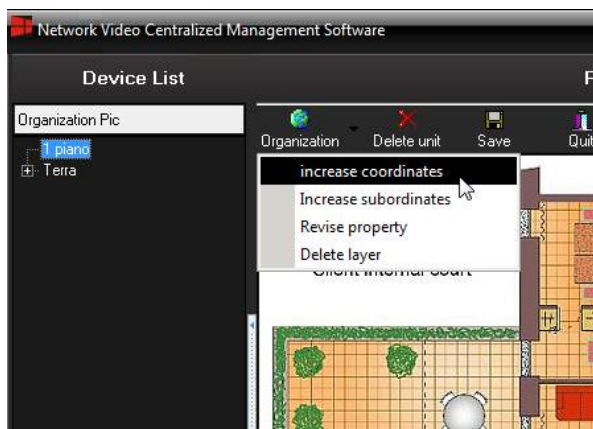
The CMS program allows you to create personalized maps which include the various cameras. This option is especially useful for managing several NVR quickly allowing you to have a clear idea of the actual position of the cameras.

Click E-MAP, then choose POP-UP E-MAP to configure the maps.

The ALARM RELATED EMAP option that appears you can enable if you want the occurrence of an alarm automatically appear on-screen map containing the alarmed camera.



Press the button to configure maps ORGANIZATION



INCREASE COORDINATES - Adds a map at the same level as that selected. Choose this command to insert the first map. E 'can upload images in JPG and BMP format and assign an indicative name (eg. First floor etc.).

INCREASE Subordinates - Adds a map that will appear in the tree on the left as an associate and subject to the selected map. This way you can create a hierarchical tree on the left of all maps.

REVISE PROPERTY - Change the name and the maps you choose

LAYER DELETE - Delete the selected map.

Once uploaded images of maps you can place the icons of cameras, taking them from the right and dragging them to the preferred location on the map.



E 'can move the icons by dragging them on the map by holding down the CTRL key.

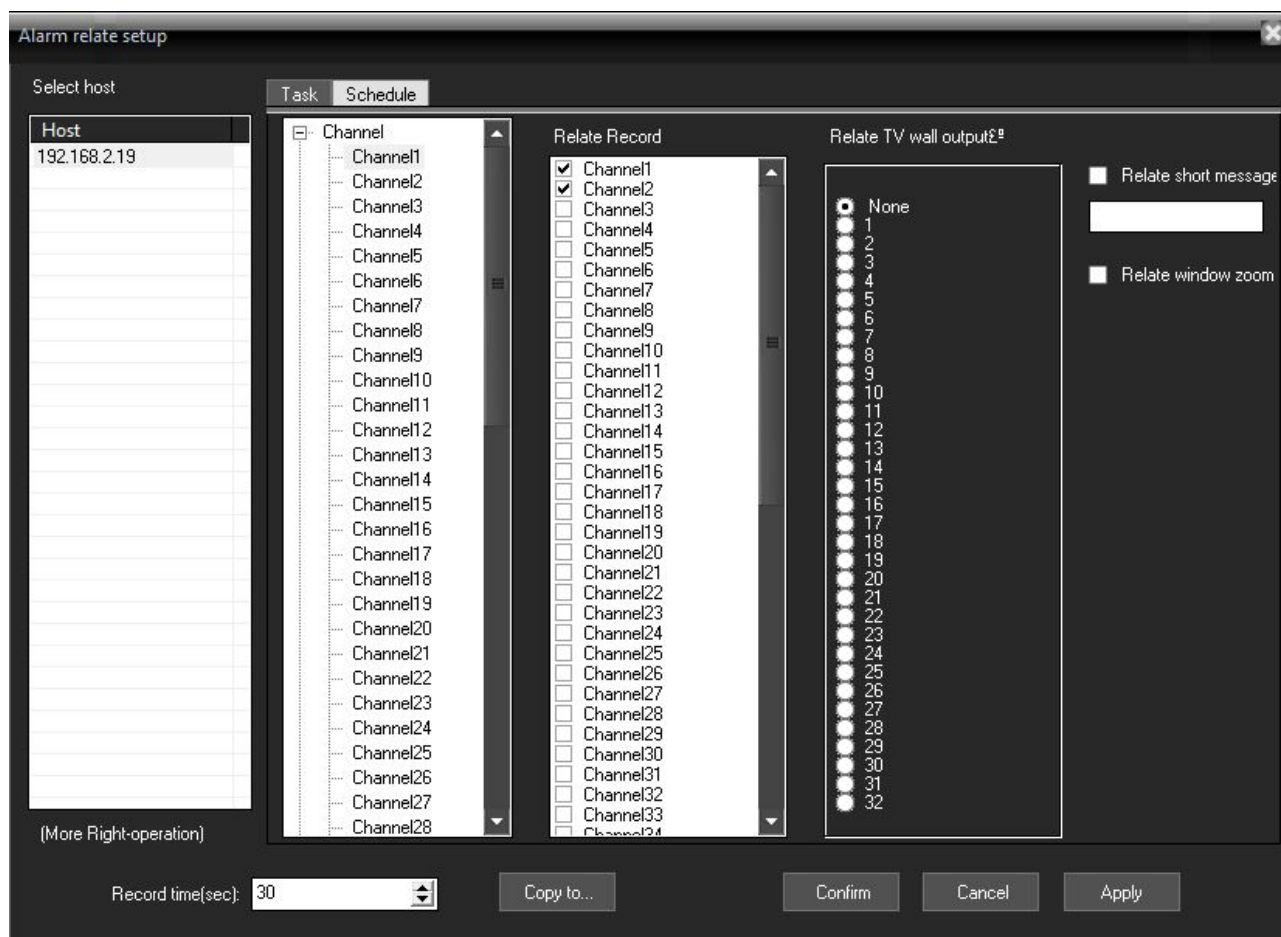
The camera icon turns red when an alarm occurs. Double-clicking the icon opens the real time display of the camera.

Press **SAVE** to save the configuration of maps.

To exit the visualization press the **QUIT** button EMAP

ALARM SETUP RELATE

In this window you define whether you make recordings following an alarm.



In the left column you select the HOST NVR / DVR, the channel in the next column.

In RELATE RECORD column you select which cameras to record in event of alarm. It is generally only associated with the recording of the same channel that has generated the alarm, but it is possible to choose up to 2 channels that will be recorded in cyclic sequence. The TV WALL column and the RELATE SHORT MESSAGE button is not used.

RELATE WINDOW ZOOM - Enabling this feature the alarmed camera is automatically set to full screen.

RECORD TIME - Set the recording time for alarm

TO COPY - Copy the setting to other channels

Because the alarm recording takes place must enable the time slots in the tables SCHEDULE

Alarm relate setup

Select host

Host
192.168.2.19

(More Right-operation)

Task Schedule

Copy to the week Delete selection Delete the day Empty Precise locate

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun.																								
Mon.																								
Tues.																								
Wed.																								
Thur.																								
Fri.																								
Sat.																								

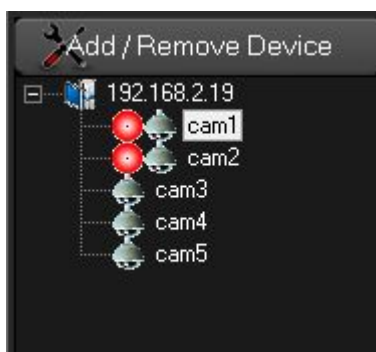
Set one week 24 X 7 plan

Record time(sec): 30

Copy to... Confirm Cancel Apply

In this table are set in red the time slots in which the alarm recording will be active as well as already described above for the programmed recording continues.

The cameras for which alarm recording is activated are distinguished by a red dot indicating the alarm recording.





ALARM OUTPUT DEVICE

This section is not used

CLOSE SOUND ALARM

This option is used to stop an acoustic signal in the local PC indicating the occurrence of an alarm in a remote camera.



Advanced settings

Pressing the ADVANCED button you can be programmed to use some options less frequently



Group Set

And 'possible to divide the cameras connected to NVR / DVR into groups so you can easily carry it all on screen with a single mouse click. E 'can then easily manage a large number of cameras.

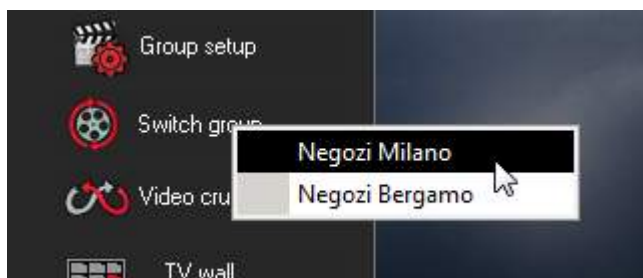
[illegible]

With the ADD button to add in the left column all the groups that you want to manage, then select a group and drag with the mouse the cameras from the column to the right toward the central one.

In the bottom of the box CRUISE TIME it is possible to determine the residence time of each screen in gurrpo CRUISE scan (see below).

SWITCH GROUP

This button is used to use the camera groups created with the previous button. Just click on the group name to display on the screen all the cameras that are part of it.



CRUISE

This button starts and stops the scanning screen of all the groups set in the previous steps.

TV WALL

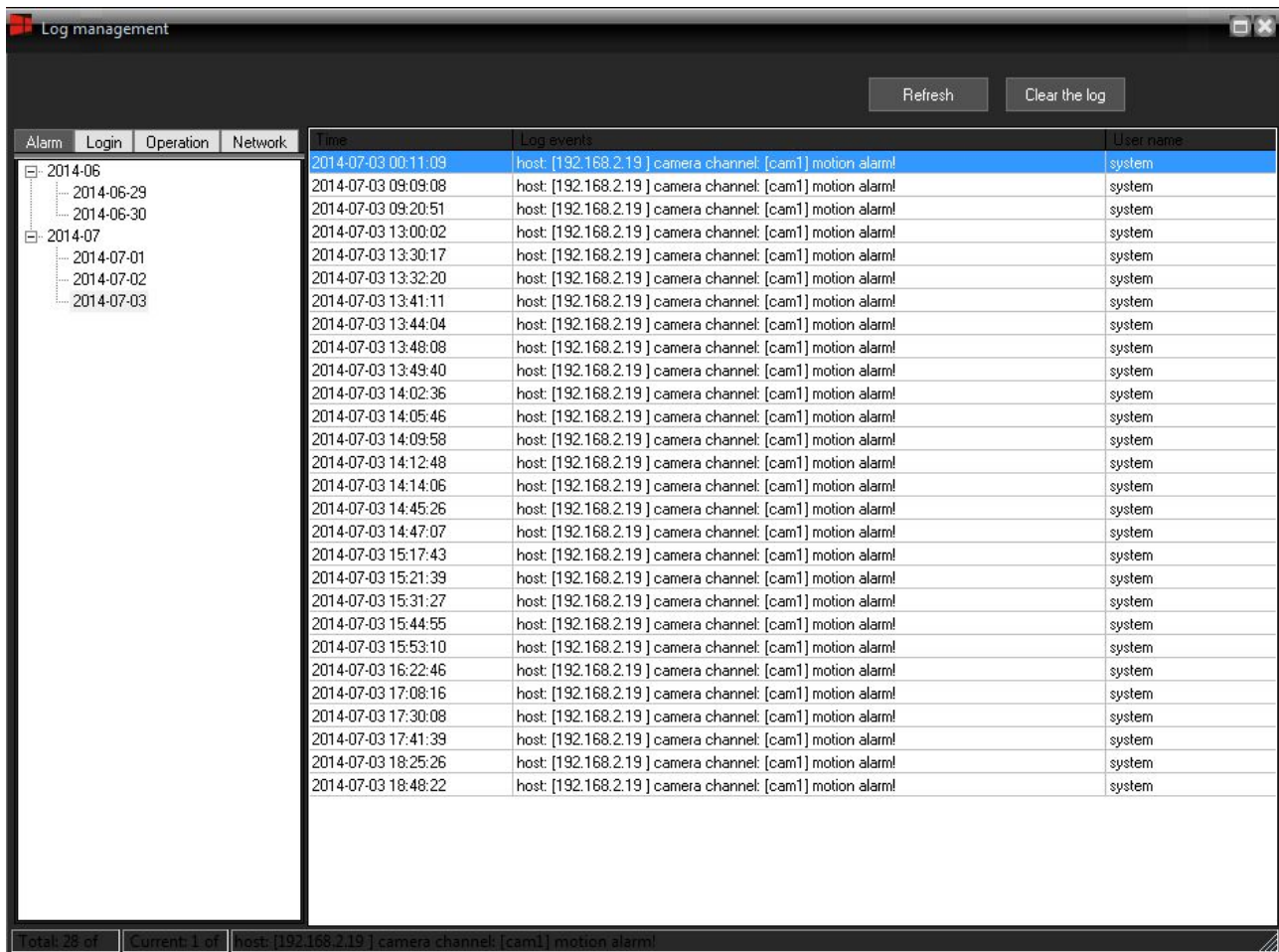
unused function.

VOICE INTERCOM

unused function.

VIEW LOG

Show the memory of the CMS program events.



The screenshot shows a web-based interface titled "Log management". It features a sidebar with a tree view of dates (2014-06, 2014-07) and a main table of log events. The table has columns for Time, Log events, and User name. The log events are all motion alarms from a specific camera channel, triggered by the system user. There are 28 events in total, with the first one highlighted in blue.

Time	Log events	User name
2014-07-03 00:11:09	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 09:09:08	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 09:20:51	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 13:00:02	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 13:30:17	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 13:32:20	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 13:41:11	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 13:44:04	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 13:48:08	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 13:49:40	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 14:02:36	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 14:05:46	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 14:09:58	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 14:12:48	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 14:14:06	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 14:45:26	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 14:47:07	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 15:17:43	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 15:21:39	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 15:31:27	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 15:44:55	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 15:53:10	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 16:22:46	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 17:08:16	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 17:30:08	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 17:41:39	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 18:25:26	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system
2014-07-03 18:48:22	host: [192.168.2.19] camera channel: [cam1] motion alarm!	system

Total: 28 of Current: 1 of host: [192.168.2.19] camera channel: [cam1] motion alarm!

SEE PICTURE

It allows you to browse the photos taken from the program with photo capture buttons.