



USER MANUAL D-Vision XP-RT vers. 3

DV-XP4

DV-XP8 + TV

DV-RT4 DV-RT8

PCI and Windows application
software for recording digital
security and remote surveillance via
modem, local network or internet



D-Vision is the most modern solution to all needs of security video recording. Connected to any CCTV system, new or existing, D-Vision will enable the total management of images, the video recording and remote transmission.

The PCI card D-Vision is available in versions with 4 video inputs (DV-XP4, DV-RT4) and 8 video inputs (DV-XP8 + TV, DV-RT8); the ability to install up to 4 cards 4 inputs or 2 cards 8 inputs on a single PC can manage up to 16 independent cameras.

In reproduction D-Vision replaces the traditional analog monitor with a digital display, high resolution and much more advanced functions such as viewing

Contemporary of cameras
belonging to different remote sites or managing graphical maps.

In registration D-Vision totally replace classic video-recorder time-lapse ensuring easier management of

video clips, the absolute
indeteriorabilità of the images, and does not require the typical maintenance of cassette
recorders. In addition D-Vision makes unnecessary
the systems
detection of presence the activation of
recording as it is alone able to detect an intrusion in the field of view of the camera and
activate the recording, as well as local and remote alarms.

In telesorveglianza D-Vision allows you to connect to the secure site via normal telephone
line, local area network or internet allowing you to check the area also surveyed at
thousands of kilometers away. The unique algorithm

compression ensures
minimal space used on the hard disk and effective transmission of images to remote PC.

The application software for Windows 2000 / XP, although an application of high-level
professional, is completely in Italian, simple to use and is protected by passwords from
unauthorized local and remote system.

INTRODUCTION

This user manual is intended as a guide to installing and using the card and the local /
remote surveillance D-Vision software. D-Vision, like all

the devices connected to a
PC, requires a minimum of experience
installation and configuration,
especially if you want to fully use all the features.

If you are not familiar with personal computers and with the Windows environment do not
worry, you can immediately use the main functions of D-Vision and access advanced
features later.



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GENERAL CHARACTERISTICS

Maximum Support 16 video inputs made using 4 capture cards of the type DVXP4 (16 video inputs and 8 audio inputs) or 2 cards DV-XP8 + TV (16 video and 4 audio inputs), or even 4 cards DV-RT4 (16 video and 16 audio inputs) or 2 cards DV-RT8 (16 video and 16 audio inputs). E 'can install XP cards in 4 or 8 inputs on the same PC, as well as RT-sheets 4 and 8 inputs. It can not, however, to co-exist on the same PC XP series cards with cards RT series. algorithm compression VGZ, further optimized

compared to VGX the format previous version 5.0, to save space on the hard disk from long recordings while maintaining high resolution and quality images. VGZ is still the only compression algorithm on the market for only being developed for surveillance needs. Compression

Hardware H.264, the last evolution of digital video compression (DV-RT4 / RT8 only)

High-quality audio recording automatically synchronized and embedded in the video file

. VGZ. **Playing Real-Time Audio** in local and even in remote connection **Display in real-time** of a full camera

screen or of more cameras **simultaneously (up to 16). Possibility of programming different pagination** including in the same screen images from various sites.

overlay Date time and customizable camera name

Hard Disk Recording of all the cameras, activated manually or automatically on the basis of a programmable calendar, or following the detection of an intrusion.

Ability to assign portions of the disc reserved for the recording. If required, the **program provides a overwrite the oldest images once exhausted**

the space layout. There is no limit to the number of hard disk used and their ability.

High resolution picture (704x576) contrast adjustment, brightness, color tone and independent for each camera.

high **acquisition speed** with smoother images and impeccable quality.

Motion Detection settable for each camera individually. E 'can set multiple sensitive areas for each camera. settings are available for the prevention of false alarms due to abrupt changes in brightness or the like.

Creating an Alarm local and / or remote in Following an intrusion. Locally you can turn the sound on the PC, or a relay output of the add-in card Input / Output (if any). Remotely, you can send phone calls with pre-recorded messages, or

email with attached photos or videos

Arm / Disarm Automatic detection of the movement on the basis of a configurable schedule or an external command

password protection for local and remote access with ability to set different users with personalized ratings.

Memory Alarms (intrusion) and user access for quick reference.

Practice management **recorded files** with quick display in the scroll bar and player program freely distributable. Ability to **create photo** in printable JPG format or **extract a sequence AVI video**. **Access from remote computer** via Internet, modem or local area network (LAN) password protected. **What it can do Remote:** display of cameras and listening to the sound in real-time, recording in real time on the remote PC, research and downloading of recorded video in the local PC database, remote control of relay outputs and PTZ control **Speed Dome Camera** of various brands from the serial port of the PC, with predetermined positions (preset) programmable from PC.

Additional I / O with inputs and relay outputs that allow you to activate external devices in response to an intrusion or manually locally or remotely. Management of **maps** Customizable where to place the icons of the various cameras. Lack of Alarm video



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INSTALLATION

D-Vision cards

The software for Windows-D Vision, was specifically developed for video surveillance. series cards **D-Vision XP**:

DV-XP4 - 4 + 2 audio video input - Max. 50 frames / sec. Total. (12.5 per input)

DV-XP8 + TV - 8 video inputs + 2 Audio + 1 TV output - Max. 100 frames / sec. Total (12.5 per input)

series cards **D-Vision RT**:

DV-RT4 - 4 video inputs + 4 audio - Max. 100 frames / sec. Total (25 per input)

DV-RT8 - 8 video inputs + 8 audio - Max. 200 frames / sec. Total (25 per input)

E 'can install on a PC up to 16 video inputs. On one PC you can enter more than one line card to comprise more than 16 video channels. It can be used simultaneously tab 4 and 8 inputs, provided the same family (XP or RT).

Package Contents

- PCI Card
- CD-ROM containing the application software DVision, the program server (to be used for network connection or via the Internet), the driver for the card and the manual in PDF format.
- Manual instructions in Italian
- Cable Audio cable connectors
- watchdog



Minimum requirements

- IBM compatible PC with Pentium or Celeron processor with the following minimum speeds: 4 cameras min. 1.2 GHz / 8 cameras min. 1.6 GHz / 16 min cameras. 2GHz (Pentium IV)

- min. 256 MB RAM
- AGP graphics card with min interface. 32MB RAM.

Hardware Incompatibility known

D-Vision is not compatible with motherboards using the following chipsets: VIA VT-8233, SIS 630, the SIS 655. It is not recommended to use motherboards based on chipset VIA also other issues related to the long term stability. We recommend ASUS motherboards with Intel Pentium 4 chipset.

D-Vision fits generates any video card, but it is recommended to use cards based on Nvidia chipsets.

Video cards based on S3 chipset are not compatible with some routine D-Vision and is not recommended for use.

Some graphics cards require that the quality of the colors is increased from 32 bits to 16 bits to support the D-Vision software. If you see distorted images, horizontal lines, or nothing at all, close the program and click on the desktop with the right mouse button and selecting properties by changing the last of the display parameters folder.

Operating system

D-Vision can be installed on the operating system Windows 2000 or Windows XP Home or in versions Pro. And 'advisable to update the operating system with the latest service pack when available. D-Vision is not compatible with Windows 98 / Me and Windows2003Server.

D-Vision is compatible with DirectX 8.0 or higher.

Recommended Requirements

- 56Kbps modem with VOICE function (for using the voice features)
- Full Duplex Sound Card (for managing local reports)

And 'advisable to format the hard drive with native NTFS file system Windows200 / VP instead of FAT used with Windows98 / ME. This will give more guarantees of stability over time of the system.



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Screen Resolution

D-Vision is automatically adapted to your monitor's resolution. For optimal viewing of full-screen program it is nevertheless appropriate to adjust to 1024x768 in

the settings

screen.

Install card

Turn off the PC and disconnect the power Remove the outer wall of the PC Insert the card D-Vision in a free PCI slot Verify that the contact is correct slightly moving the card in its housing.

Reassemble the PC and connect rialimentarlo

the exit video of the camera

entrance of the video card. The connectors of D-Vision card are the BNC type. If you are using an already ready with RCA cable terminals will be required an RCA / BNC adapter (not supplied) for each input.

Along with the card comes a cable for audio that must be inserted in place of the side connector

4 BNC video.

in the cards XP series this cable

ends with 2

connectors RCA (white and red). Connect the audio output of

camera, self

available, in one of the two audio inputs that are synchronized with the cameras 1 (red terminal) and 2 (white terminal). In addition you can also use the LINE IN input on your sound card as a third channel to be used



with



another camera tabs RT series,

in

can handle 4 audio channels

per card, the cable ends with 4 RCA terminals RED (audio tel. 1), WHITE (audio tel. 2), BLACK (audio tel. 3) and YELLOW (audio tel. 4)

The card also comes with a cable for the Watchdog which can be connected between the jumper JP2 and the reset of the card connector of the PC; that to which

connected the button reset front.

The watchdog function is not needed for operation of the board, for which you can not safely connect the cable; But connect it will restart the PC in case of malfunction

of the software D-Vision.

If the PC are inserted more D-Vision cards simply connect the watchdog of any of them.

To qualify for the watchdog function is also necessary to enable its functionality in the software (see below). Consider that the watchdog function of D-

Vision is able to detect errors made by the D-Vision card, not from other PC components.

The DV-XP8 + TV card is equipped with a TV output to which one can connect an external analog monitor or a TV. The yellow RCA connector. The RCA cable is not provided.

The hardware installation is complete. You can repeat these steps for any additional cards to be inserted in the PC. Finally you can close the PC and restart Windows

Driver Installation

- Turn on your PC
- Windows will recognize the presence of a new hardware and ask its driver

- Insert the CD into the player
- Set the search for the driver CD-ROM drive (usually D: \ or E: \), and the folder containing the driver.

- Follow the instructions to complete the installation. The driver installation is complete.

PLEASE NOTE . Windows 2000 Professional requires that you log in with a user name authorized the installation of new hardware.

Installing the application software

- Do not install the application software before you have properly installed the card and its drivers as described above.

- Insert the CD-ROM into the CD If you have enabled the dell'autorun running the CD, a window will appear that will guide you in the installation and will allow the on-line registration of D-Vision. If you insert the CD does not happen anything, launch Windows Explorer.

- View the contents of the CD Double click on *SETUP.EXE*.

Follow the instructions for installation The complete installation also contains a viewer DVision movies (DVision Player) and DVision Server it is essential to connect remotely via LAN or Internet.

- After installing the icons appear

D-Vision D-Vision Server among the programs of the start and the desktop menu.

NOTE: It 'possible that the installation of the program is not allowed if the settings of



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monitors are not adequate to D-Vision. If you encounter a message like this, head into the settings and set the screens to 32BIT quality of colors and 1024 x 768.

Congratulations, you have completed the installation of D-Vision system.

Uninstall D-Vision

If you need to remove the D-Vision

PC you can program **ADD / REMOVE APPLICATIONS** accessible from the Windows Control Panel.

Uninstalling does not delete the recordings nor the password you set. To do that you have to manually remove the program folder using the Windows explorer.

Update D-Vision

If you need to update D-Vision, or switch from the previous version of D-Vision D-Vision 5.0 to proceed to uninstalling the old software before installing the new one. Remember that uninstalling does not remove all of the program's folder, to preserve the previous settings and the database. Delete it manually if you want to really make a total uninstallation.

If you are installing a D-Vision card into a PC where it was already installed a previous generation card is likely that Windows does not request a new driver at startup, but try to use the one previously installed. then you will need to travel to the **DEVICE MANAGEMENT** and click

UPDATE DRIVER.

Uninstall the D-Vision card driver

To upgrade the card's driver with a newer simply activate the command **Update Driver in Device Manager**. In some cases it may be necessary, however, completely uninstall the previously installed driver, for example if you have a newer version installed error, but designed for a different type of card. These are for example instructions for Windows 2000 / XP.

Delete the driver in Device Manager, then look for the INF folder that is normally found in the Windows folder. Find and delete the OEM files containing the acronym DVuard. Then OEM.PNF also delete its files. Select the folder System32 \ Drivers DVuard.sys delete the file.

Now remove the card and restart your PC

The capture rate

In acquiring digital video, a very important parameter is the amount of frames per second can be acquired. The PAL standard requires 25 f / sec, and this frame rate is commonly defined REAL TIME. Digital In the acquisition is also possible to acquire less than real time while retaining outstanding image fluidity. Going down, however, under the 6/7 f / sec the picture is jerky and jerky. D-Vision offers 2 types of solution corresponding to different types of use.

XP SERIES (DV-XP4 and DV-XP8 + TV). The maximum acquisition capacity is 12.5 frames per camera. It is a less than real time acquisition, but that ensures fluid image without increasing the load of PC

work excessive. The recorded files are smaller recording at 25 f / sec to the benefit of the maximum recording capacity and remote video transmission. The D-Vision XP Series cards are also able to optimize the capture rate based on the number of active cameras. For this reason, by connecting only 1 camera every 2 inputs is obtained by the Real Time (25 f / sec). Similarly, by scheduling the recording only in case of

intrusion (Motion Detection), depending on the cameras will use if / sec
unused give her camera rest.
The serious D-Vision XP is now the best price / performance in the industry, ensuring high performance at a reasonable cost.

SERIES RT (DV-RT4 and DV-RT8). The maximum acquisition capacity is 25 frames per camera, for which it is guaranteed the Real-Time recording in any condition of use. To achieve this, without unduly straining the PC's CPU and video files while maintaining the compact size, these cards use a compression chip Hardware Texas last generation that uses H.264 compression,

the latest evolution of digital compression.

The compression technique

In the video recording of long-lasting quality and compression efficiency play a fundamental role. The D-Vision XP cards use the algorithm **compression VGZ**, VGX further optimized with respect to the format of the previous version 5.0, to reduce the space occupied on the hard disk from long-term recordings while maintaining high resolution and quality images. VGZ is still the only compression algorithm on the market for only being developed for surveillance needs.

The D-Vision RT cards use the same format of acquisition, but add the compression hardware to maintain the size of the files similar to XP series despite the increased number of data acquisition.



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THE FUNCTIONALITY 'BASE

introductory note

The following figures refer to the software D-Vision XP, but also apply to the software D-Vision RT although the graphics are slightly different.

Start the program

- Click **START - PROGRAMS - D-Vision - D-Vision**
- When you first start the program will ask you to create a master code that will be in charge of the system.
- Enter 3 in the fields proposed the name, and 2 times the password you want to use
- Premuratevi to remember your password and set username. Remember that the data is CASE SENSITIVE, ie they consider several uppercase and lowercase letters. If in the future you forget your password will be no other solution than to uninstall the program and delete the folder manually in which it was installed.
- The program will eventually run. From this point on D-Vision will always ask for a password at startup.

Upon restart, D-Vision will start by showing you only the camera monitor. To get access to the controls you need press **ESC** and you will be prompted for a password for access.

The design window

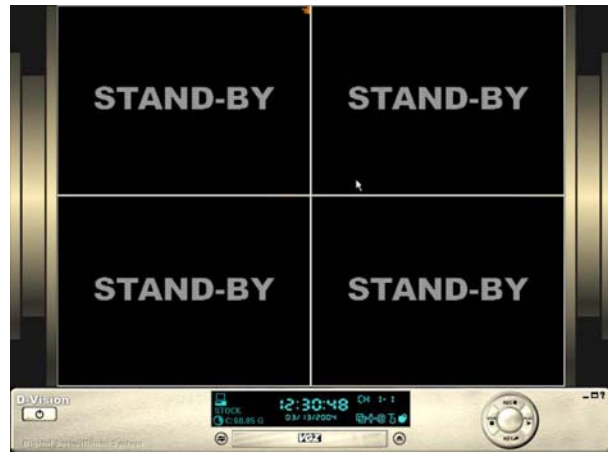
We start by saying that if you start the program you were to look a picture like this:



something did not work properly and the software is not recognizing any card installed in the PC. You will then verify that the card and drivers are

correct is compatible with D-Vision.

The correct screen should instead already present in the split screen 4,8,12 or 16 shares based on the number of cards installed in the PC. Here is the correct initial screen of a 4 camera system (DV-XP4 card) that from now on we will use as an example.



The working area of D-Vision is composed of:

- **image area (Monitor).** Where are display Cameras. This section will appear divided into sections 4,8,12 or 16 depending on the type and amount of D-Vision cards inserted in the PC (from 1 to 16 cameras).

- **Control panel** Place in the bottom of the screen and similar to a digital video recorder, this section contains all

controls and settings of D-Vision.

Pressing the button pictured here at the side, it shows a panel of



controls Special similar to a remote control that appears on the right side of the workspace.

- **TV remote.** The TV remote essentially three functions allows: viewing of any other available PC

in dial-up connection, the control of the card relay outputs





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VG-IO expansion and command of motorized cameras (PTZ). The three functions are selected using the related buttons

on same



TV remote.



After pressing the button on the left opens the drawer system settings

■ **settings drawer.** Here it is enclosed

command menu and the D-Vision program settings, as well as all the tools to handle it the best.



■ **Display information.** Place it over the tray settings provides all the information on system status. In the bottom right of the controls for adjusting the image of the cameras are available.



We see now more in detail these five work areas.

The image area (monitor)

After connecting your camera, and press the REC button (see control area) This section will show the images.



D-Vision automatically recognizes the number of cards inserted in the PC and then divides this area into the corresponding number of sections.

Clicking an image is evidence that the camera will be the subject of actions that will follow (eg.

contrast adjustment, PTZ control etc.) and appear a little hand in the upper right corner to remind us.

E 'can make a double click on each camera to switch between the display of all the cameras simultaneously to the one which reproduces only one camera in full screen. It re-run a new double click to restore the multivision.

Typically this section reproduces the cameras connected to the local PC, but if collegassimo us to a remote PC via LAN,

interent or modem it reproduce images of the remote site. The function of

pagination (my channels) that

we'll explain below even allows you to

mix on the same image area cameras from different computers. real or the full screen. The same options can be selected by clicking on the image with the right mouse button.

The control panel

In the bottom of the screen resides checks the area with the main commands necessary to use D-Vision.



The following commands are available:

■ **ON / OFF button.** A click on this button allows you to exit the program. This is ONLY granted to SUPERVISOR SYSTEM.

■ Written D-Vision. A click on the word displays program information.

■ The minus sign reduces the program to icon in the Windows taskbar. D-Vision will continue to operate normally, but will no longer be visible on the screen.

The symbol of the window switches to full-screen from which you can exit by pressing **ESC**. The button? It is disabled because the program guide is provided on CD in PDF format.

■ This button brings up the remote control for special functions

■ This button activates the panel of settings, as long as the password used to log in so permits.

In the right part of the controls is a group of circular commands.

REC Turn the cameras on-screen. This does not mean that they are necessarily in registration as this will depend on each individual camera settings.





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STOP Stop the cameras that go into STANDBY

KEY It allows you to make a LOG OUT from the program to be able to log back in with another username and password by pressing ESC.

PLAY Open the control panel of the files reproduction through which you can search the video of interest. The function is described below.



Bottom left shows the free disk space in the database on which you are recording.

The tray settings

The panel



It allows you to access the following features

LINK It allows access to the control of remote sites it via modem, internet or LAN.

SCAN Start cycle the display full-screen cameras.

SET It allows you to set all program settings

LOG It allows you to access the events D-Vision memories, where I recorded all alarms and local and remote logins

MAP It allows you to select and display graphical maps may be set

MUTE It silences the audible alarms generated by motion detection

Later the individual functions are explained in detail.

In the center there is shown the Current date and time In the upper right is shown the camera that has been highlighted on the screen. You find the CH code followed by the card number and the camera. Below shows the message VIDEO if it is being recorded and possibly the written AUDIO if if recording includes the same. If neither appears nor VIDEO AUDIO means that the camera is not recording.

In the bottom right there are 5 iconette that allow to control the image control parameters of the selected camera that are described below:



The bottom right section of the information display allows

adjust the image of each individual

camera. Detailed information about these controls are found later in the REGISTRATION section.

Information display

In the center is a screen that shows real-time information about the status of D-Vision. By clicking alternatively on the screen you can hide or show it.



In the upper left is the name of the PC you are currently viewing. The PC icon located above list indicates that this is the local PC, but if you find yourself in connection with a remote PC icon will appear remote connection



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The remote control

The remote control is shown and hidden by pressing the button beside.



The remote control unit 3 assumes different configurations depending on which of the buttons is pressed reproduced below:



HOST / MY CHANNELS

The first button on the left allows you to view all networked PCs or cable modem, or even via the Internet. The PC names are those set in your computer's network options. Any PC that present alarmed cameras are distinguished by a red exclamation mark. A double click on one of the connected PC lets you view the cameras, provided that the correct password to access used to access D-Vision, and is recognized by the remote system.



Clicking on the arrows at the bottom of the display you move on **programmed layouts (MY CHANNELS)**. It is customizable layouts that let you play video cameras from different PCs in the order

desired. The layouts are to be set in the OPTIONS program as we will show later.

PTZ

PTZ means PAN / TILT / ZOOM ie in simple words SIDE ROTATION (right-left) / VERTICAL ROTATION (Su-Ju) / ZOOM. There obviously refers to motorized cameras which can be controlled via serial (SPEED-DOME) or via contacts (TILT). When used in a dome camera or with motorized pan, tilt and the appropriate settings are set in the program settings, it will be possible via this panel control the camera is resident on the local PC that remotely. the most common commands for controlling the motorized lens and camera movement are available.



E 'can also act on the remote PTZ cameras.

OUTPUT

If you bought the card outputs VG-IO you can control the outputs manually and switch between them with a simple click. This remote control screen allows you to select the I / O card and then clicking it to activate the desired output. The left output circle will change from white to black to highlight that the activation was carried out.



E 'can also activate outputs on remote PC.



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SYSTEM SETTINGS

To access the D-Vision settings you must click on

button depicted in



the right to open the drawer settings. E 'need to be logged-in to the supervisor code, or with a normal user code that has enabled the access level authorizing the modification of system options. System in the menu on the right of the screen. The settings icons appear, as shown below.



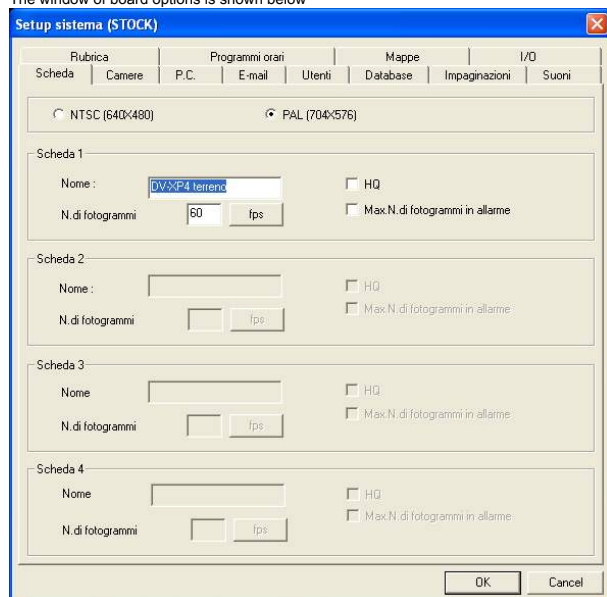
Now press the SET button, the dialog for the set up of the system page.

The window system options is divided into different folders can be selected with a simple click on the corresponding tab at the top.

This section explains what the various settings available in different folders of the options menu. The first folder that appears allows you to program the general options for your capture card.

card Options

The window of board options is shown below



Depending on the number of cards installed in the PC D-Vision enable 1,2,3 or all 4 card sections.

PLEASE NOTE : Why the changes made in this section are properly applied by the system it is necessary that the cameras are in a state of NOT REGISTER (press STOP).

In the top of the board you have to choose the video standard used by the cameras which correspond to a correct resolution of the captured frames. In Europe, the standard used is PAL, so you have to set the PAL option which corresponds to a resolution of 704x576 Pixel acquisition.

In the following sections, for each card in the PC, you can program the following parameters:

First name - Type a name that is representative of 4 cameras connected to the card, eg, a representative name of the monitored area.

Number of frames - Rappresenta the number of frames (frames) captured per second (fps) or by clicking on the button next to it, the seconds per frame (spf). You can safely leave this parameter to the factory set value (25 f / s in PAL), as still-D Vision will adjust this value to the capabilities of your CPU. The value of frames captured is very related to the PC processor speed, choose a faster processor if you want to use all the potential of your card. Consider decreasing this parameter to one or even all tabs if you want to store on the hard disk a very long period of images. It 'obvious fact that if you require to record such system. 3 frames per second, it will occupy much less disk space than the maximum recording speed of acquisition

HQ - High Quality Image. This setting improves the recording quality, but results in increased employment of Hard Disk. And 'advisable to enable it if you have large capacity hard drive or where the recording capacity is not relevant. Not available when DV-XP8 + TV card.

Max. Number of alarm images
By selecting this option, the card will automatically switch to full frame rate on alarm. If you have a hard disk of limited capacity or want to retain long periods of video, you can set a low capture rate (1.2



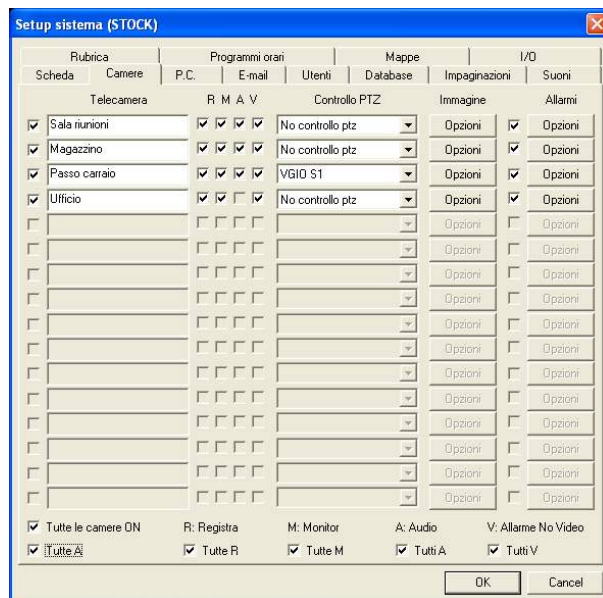
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f / sec) which will increase from one to intrusion detection. If you need to keep on Hard Disk extremely long time you can also record one frame every xx seconds to get a record like that of time-lapse tape recorders. You have to in this case press the pulsed fps (frames per second) to change it in spf (seconds per frame)

enable the cameras 1 and 2 of each card, which correspond to the red and white connector of the audio cable. E'can also enable audio of the cameras 3 or 4, and in this case will be recorded audio captured from the entrance of the LINE IN PC sound card. As for the inputs 3 and 4 provided a single audio input (that of the sound card

camera Options

By clicking on ROOMS tab activates this window



As always D-Vision enable automatic adjustments of the number of cameras corresponding to the number of cards installed.

You can be programmed for each camera:

Enabling / Disabling the camera

The first option left handle allows you to enable or disable the video input

camera Name Here you can type a meaningful name that distinguishes the camera

Option R (Record) Putting here the checkmark will enable the recording of the camera whose images will be stored as soon as the REC button is pressed

Option M (Monitor) Putting here of the camera check mark is displayed on the screen in real time.

If abilitate R recording and

disable the M monitor regularly the camera will record the REC button is pressed, however, to place the image on the screen will play a black screen with the word RUN.

Option A (Audio) This option enables synchronized audio recording. It's possible

PC) will not activate

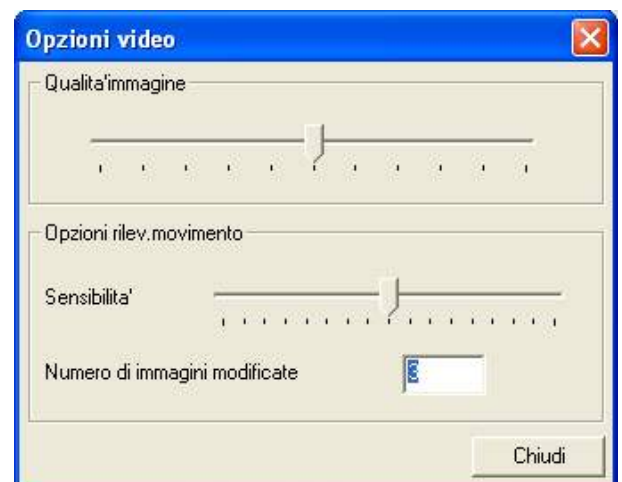
there

Audio recording for both channels

Option V (Alarm Lack Video) If this option is enabled D-Vision will generate an alarm if it were to fail the video signal of this camera due to a failure or tampering. The actions to be performed in case of alarm and its duration should be set by pressing the enabling and pulsate further alarms.

PTZ control. If the camera in question and pivoting, or is a speed-dome camera can be set through which device you want to control the movement.

image Options Opens an image control panel of the selected camera



The cursor image quality at the top allows programming

the quality of

movie acting

directly on the algorithm of VGZ compression. Logically, a higher image quality corresponds to a lower compression ratio, resulting in a larger footprint on the hard disk. It's a good idea to use the medium setting default proposal

The detection section of the Movement Options

sets for each camera the sensitivity of this feature. The cursor sensitivity It makes the detection of the more sensitive or more delayed movement. In regulate it is good to take into account that a high sensitivity is more susceptible to false alarms and can only be applied to cameras that generate a very stable video signal and where you do not foresee image variations due to changes in brightness or otherwise. The number of modified images avoids false alarms caused by sudden changes of



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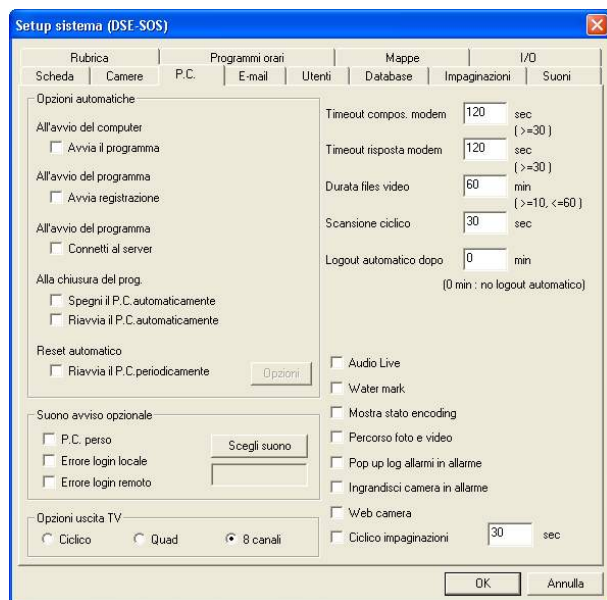
brightness of the environment. For example, setting 3 images it is required that 3 consecutive frames undergo variations to generate the alarm (for example the ignition of a light only modifies 2 consecutive frames)

Alarms Option This enabling allows the generation of alarms to the camera in case of

motion detection or video loss. The Options button accesses the program alarm actions that will be described later in the REGISTRATION section.

PC Options

Clicking PC you access the general settings of the workstation.



SECTION OPTIONS AUTOMATIC

When the computer starts the program

It should be checked if you want D-Vision to be automatically performed every time the computer

When the program starts recording

This option starts recording when you start D-Vision.

When the program starts connect to the server

When the D-Vision program link automatically to the D-Vision Server program to enable remote access via LAN or internet.

PLEASE NOTE : If you use the watchdog function that allows to reset the PC in the event of the operating system block, or the sof-periodic reset described later, it is advisable to enable all 3 just described automatic functions to allow D-Vision to return alone in condition work after reset. If you use Windows you need 200

disable the password prompt when you start Windows.

At the closing of the shut down / restart the program

PC automatically

Shut down or restart the PC automatically when closed D-Vision.

Reboot your PC regularly

Enabling this option has the ability to program a periodic restart the PC to prevent a shutdown

Windows may unexpectedly

compromising recording for long periods. Click on the Options button you can choose the frequency, the date and time of restart.

SECTION SOUNDS OF NOTICE

PC Lost

Generate a warning sound to be chosen with the SELECT SOUND button if any of the PCs connected via LAN or Internet disconnects and becomes no longer reachable.

LOG IN Local Error

Generate a warning sound to be chosen with the SELECT SOUND button if it detects an incorrect password when you sign in to D-Vision on the local PC

Error LOG IN remotely

Generate a warning sound to be chosen with the SELECT SOUND button if it detects an incorrect password when you sign in to D-Vision from a remote PC

SECTION OPTIONS TV OUTPUT

This section covers the possible functionalities to match the TV output of the DV-XP8 + TV card.

Cyclic By selecting this option, the TV DV-XP8 + TV card output will show the 8 video inputs one by one full screen in sequence. The cyclic scan has a residence time of 3-4 seconds of each camera, not editable.

Quad By selecting this option, the TV DV-XP8 + TV card output will show a quadrivisione of the cameras 1 and 4 ... 1..8 Cycles. The polling has a residence time of each image quad 3-4 seconds, not editable.

8 Channels By selecting this option, the TV output of the DV-XP8 + TV card will show all 8 cameras on the screen simultaneously.

SECTION MISCELLANEOUS OPTIONS

Timeout modem dialing and answering modem Timeout - These values should never be changed (default value 120 seconds). E 'can increase them or reduce them to a minimum of 30 seconds to adapt to the type of modem used, for example in case the modem hangs up unexpectedly before the connection is established during the remote link modem-modem



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Duration of video files - D-Vision stores

recordings in file individual the duration programmable. You can set here the duration of each individual file (minimum 10 minutes, maximum 120 minutes). And 'advisable to set this value below 60 minutes to prevent the generation of a large number of files that make it cumbersome search operations.

cyclical scan time - The D-Vision monitor

It is typically shows all the cameras together and allows you to go to one or the other simply by clicking on them. Pressing the SCAN key on the front panel of the system options instead of the cameras will be displayed in full screen in sequence, as would a switcher. In this window you program the dwell time of each camera during the scan. Once the cycle you can stop it by pressing the SCAN button again.

Automatic Log-out after XX minutes - If D-

Vision will not log any operation for the set time, will automatically perform an operator logout. If you do not want to use the automatic log-out just allow time to zero.

Live Audio The cameras that are associated with a microphone audio input may allow playback of audio in real time along with the files if you enable this function. Selecting the camera with a click you will hear the sound being recorded through the PC speakers The function is only valid for the associated cameras to

mic inputs of the board and not to the audio input of your sound card.

Water mark If you enable this option in the upper right corner of each image you will be given a D-Vision logo for transparency in order to make the images easily alterable.

Show status encoding Enabling this option will bring up an additional window on the D-Vision control panel that will show the number of frames per second D-Vision is acquiring.

Path photos and videos - If you enable this

D-Vision function will ask you which folder to use whenever you decide to save a picture or video. Leaving this option disabled the files will be automatically saved in the default folders in the D-Vision database.

Pop Up Alarm in alarm log - For each alarm activation will show the alarm memory to facilitate a prompt operator response.

Enlarge alarm in room - If enabled

this option, each alarmed camera will be brought automatically to full screen

Web camera Enabling this option

It enables remote connection via Internet Explorer, using the plug-in DV-Webcam. Detailed instructions on connecting steps are provided later

cyclic layouts E 'can set the dwell time if the scan is activated

cyclical while viewing the layout (see below)

E-mail Options

D-Vision lets you send email messages with attached images and video clips on alarm. It is a very useful feature as it allows you to send images to another location, putting them at even protected from subsequent destruction attempts by intruders.

The screenshot shows the 'Setup sistema (STOCK)' window with the 'E-mail' tab selected. It contains fields for 'Mail server' (smtp.fastwebnet.it), 'E-mail da' (assistenza@dseitalia.it), and 'E-mail a' (sorveglianza@inpolit.it). There are also fields for 'Tentativi di inoltro' (3) and 'Intervallo fra tentativi' (60 sec). Below these are sections for 'Autorizzazione server posta' and 'Connessione Modem', each with 'Utente' and 'Password' fields. At the bottom, there is a grid for selecting cameras (Camera11 to Camera44) with checkboxes for 'V' and 'P'. A checkbox for 'Allarmi da ingressi' is also present.

Mail servers Enter the address of the SMTP mail server of your provider you use Internet

usually for sending emails

Email from Enter e-mail address as the sender you want to be visible to the person who will receive the alert email. This field can not be left blank

E-mail to Enter the email address you want to send the alarm notification email

Attempts forwarding and interval between attempts If for various reasons, such as unavailability of the server, it proves impossible to send an email, D-Vision will retry for the number of times your booking, after a time interval that will set the box.

Mail Server Authorization It is generally not required password for sending emails (which is instead necessary for access to the box) and this section can be left disabled. If your provider's server requires a user name and password for sending messages you have to enable this function and type in the appropriate username and password correct spaces.

modem This section must be completed if the Internet connection is via a modem. It considers any modem connection



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Remote requires that the composition of a number (Dial Up). This category includes analog modems, ISDN and ADSL. Here you can indicate which remote connection between those set in your D-Vision system to use to connect to the internet and what user name and password to use.

When you verify the alarm D-Vision will establish the Internet connection, it will send the email and close the connection.

Section cameras Here you can determine which cameras are enabled to send emails and what the content of the email sent.

PLEASE NOTE : Only the cameras for which you have enabled the alarm management (see OPTIONS CAMERA) will be selectable.

After enabling sending email in case of alarm you can choose what to send: V = P = Video Photo

ENTER YOUR MOVIE VIA EMAIL

If you enable the camera to the side V box the email sent on alarm will contain the movie the set alarm time. If the recording is continuously set you are sent an early warning clip.

ENTER THE PHOTOS VIA EMAIL

If you enable P box next to the camera the email sent on alarm will also feature images taken later to the alarm. And 'necessary that in the alarm actions set for the way the camera is performing a number of photos.

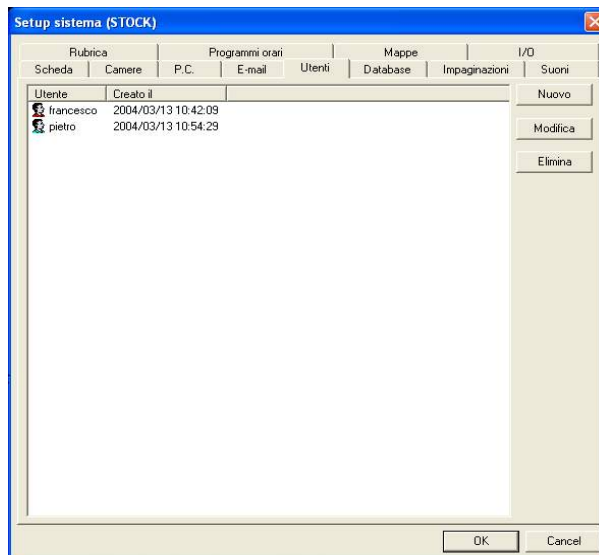
from inputs Alarms Enabling this function will verify the email notification in the event of alarms generated after the activation of an input of VGIO card.

Users

Clicking the USERS folder opens into a window that allows us set user names and

password all users of D-Vision. IS'

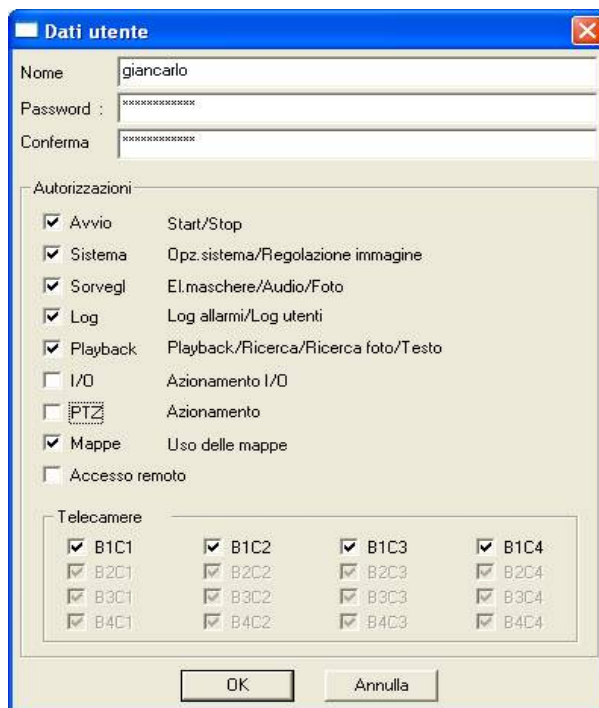
necessary to include in this list all users who have to use the D-Vision local and also all those who should be able to access it remotely.



The window lists all users already programmed. Since the first start, D-Vision also prompted you to enter a name and password for the supervisor, you will find the corresponding red icon with the name you have chosen.

NOTE: Only if you have had access to D-Vision with the Supervisor code can create and edit users.

If you want to create a new user must click NEW and the following window appears:



In this window you enter the name of the new user and 2 times the chosen password (Password and Confirm). Then you have to give the new user



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authorize or not to perform all of D-Vision functions.

PERMITS The section consists of various items that you can tick or leave blank. The checkmark means that the user has access to the function, raising the selection the user can not access the functions described side.

Start - Ability to start and stop recording (REC-STOP button)

System - Access to settings and D-Vision
the image adjustment of the cameras

Surveillance - Access to the cancellation of
masks detection of the movement, the audio acknowledgment and execution of photos

Log - Access to alarms and access memories
users

Playback - Access to search and
Playback of video files and photos. Access to the saddles overlay images settings

I - Access control of add-on cards
Inputs / Outputs

PTZ - Access to the PTZ camera control
controlled with this system (if present)

Map - Access to graphic maps

remote access - Ability to access the
system from a remote PC via modem, Internet or LAN.

Selection cameras - Access a
displaying a specific number of cameras. The non-enabled cameras will not be displayed to the user.

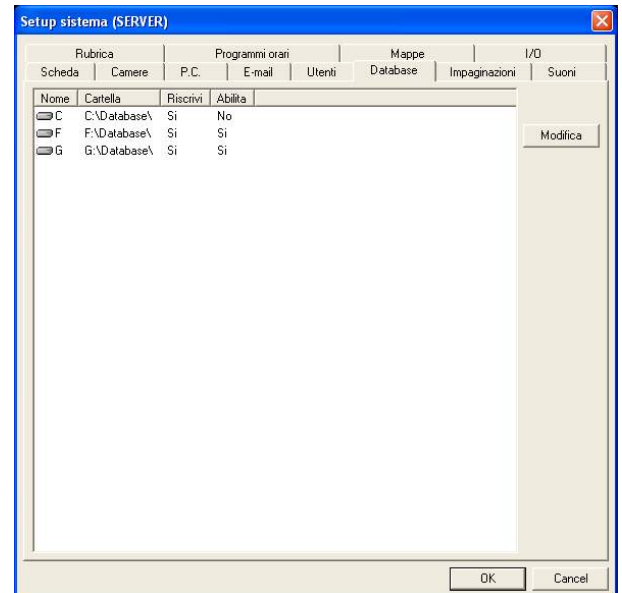
Delete and modify a user
Highlight the user with a single click, then press the DELETE or EDIT button

Memory user access
D-Vision will record the date and time of each local or remote user access, and records them in a memory accesses. You can access it with the LOG button placed in the tray settings.

Database Options

D-Vision can record videos on Hard Disk without interruption. Although use a special compression algorithm made just for this, it is obvious that occupy large disk space. However appropriate adjustments to even use Hard Disk small capacity available.

Click the DATABASE folder to open the settings window.



D-Vision automatically detects startup all hard disk and / or partitions in the system and creates you a name DATABASE folder, where settle the record files. The database created on C is the basic set as disabled as it is expected that C is installed on the operating system. You can not change the location of the database, but you can disable the database you want to not use. To change the properties of a database must highlight it and click **MODIFICATION**



No HD recording space is the dimensions of free space on the disk to allow the smooth operation of Windows. D-Vision will record all the free space and stop leaving free the space that you'll set before all the 'Hard Disk is busy and Windows risks of crashing. The free space recommended default is 1000 MB, but you should set it to a value of about 5% of hard disk drive capacity.



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Skills - D-Vision will use the database only if enabled.

Rewrite Selecting this option D-Vision does not stop recording the exhaustion of the available space, it will start deleting older overwriting them with new files.

NOTE: For the proper functioning of the OVERWRITE function it is necessary to set the Windows recycle bin so that deleted files are not maintained in the bin but are deleted immediately. To do this, click the trash icon that you have on your desktop with the right button and then choose Property.

Select the option Do not move files to the trash.

Alarm insufficient space it is an option to play a sound when all the available space. The next button opens the library of sounds.

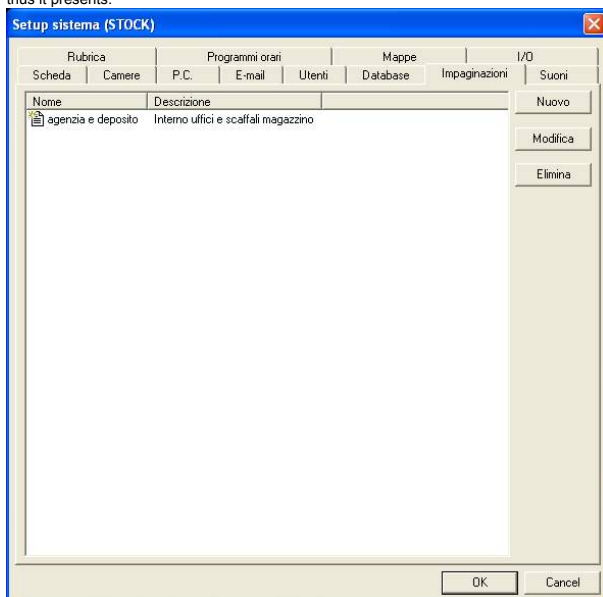
NOTE: Setting the PC resources in a Hard Disk mapped network you can make sure that the registration takes place on another PC.

layouts

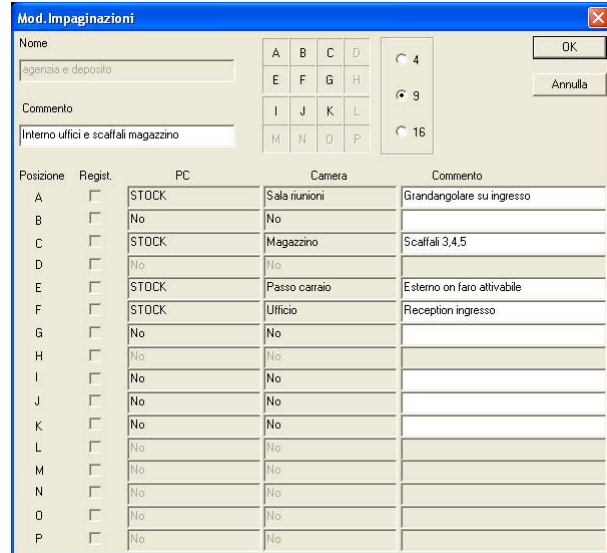
This is a new feature in D-Vision called MY CHANNELS screen that displays up to 16 cameras also from different remote PCs. And 'possible to program different layouts easily recalled and that allow you to easily manage a large number of remote sites. To recall different preset layouts is sufficient to act on the remote control as previously described. The page

setting of layouts you

thus it presents:



of course the first time this list will be empty. We can add the first page layout by clicking NEW:



In this window you can first give a name to this page layout as well as an additional description. Then you can choose whether to display a screen 4, 9 or 16 cameras, this will enable in the grid below a corresponding number of programmable cameras.

At this point it is possible for each position of the screen to choose which PC and which camera display. The description field allows you to add an indicative comment.

The RECORD option is only active if the chosen room is on a remote PC and enables recording in local video during playback. NOTE

WELL: During there programming PCs
pagination is necessary for all
interested they are connected and that owns
authorization needed to access it.
subsequently Sara possible use
the layout even if one or more PCs affected are uneven, but obviously not connected
cameras will be inactive.

Sounds

Clicking the SOUNDS folder to access the library sounds, and you can edit it. In the library sounds you can enter all the sounds you'll use in D-Vision. For each camera, D-Vision allows you to play appropriate sounds (eg. "Intrusion alarm warehouse 1"), or to send phone messages (eg. "Shop Alarm Input Via Roma"). E 'can record your own messages using any recording program, such as Windows Recorder, to be able to generate WAV files. You can insert files recorded in the SOUND folder located inside the folder

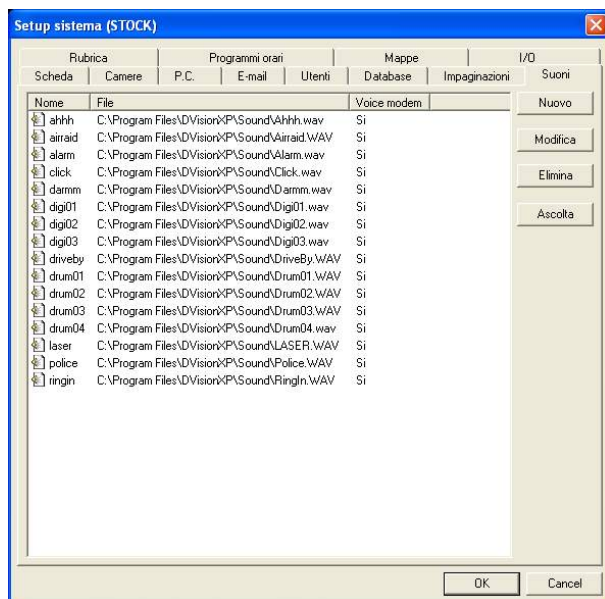


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installation of D-Vision, and will find them available for use within the program.

D-Vision provides you with a small library of prepackaged sounds.

Each sound consists of a name and an associated file. Clicking **NEW** you can set the name of your sound and choose it by searching your hard drive.



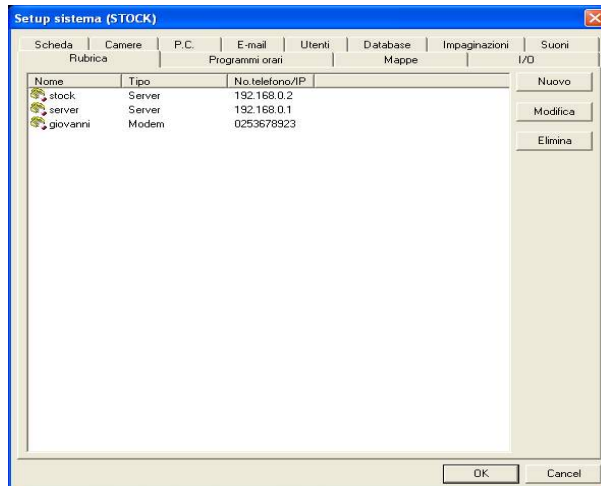
You can delete existing sounds or insert new ones. Clicking **Listen** you'll hear the selected sound. The field **Voice Modem** (Yes / No) indicates whether the message can be sent via modem on alarm.

NOTE: The messages that you want to send via telephone in case of alarm must be saved in format

PCM 8000Hz, 16-bit, mono.

Address Book

As we shall see below, D-Vision allows remote PC access via modem-modem connection by telephone, Internet or LAN. The phonebook allows you to store phone numbers or IP addresses of the remote site you want to access, so that should not be entered each time. Click **HEADING** folder



NEW By clicking you can insert three types of remote sites:

Modem - It is remote sites connect

via direct-dial telephone (modem-to-modem). It should be added to the name and phone number.

Server - This is the server (D-Vision Program

Server) to connect to and then have access to multiple PCs connected to it via LAN or Internet. Enter your name and IP address.

Remote IP - It is a PC between those connected

via LAN or Internet. In order to communicate with another of the connected PC, you need to introduce the phone book for the correct name of the PC while the IP address is not necessary.

The PC name must be written respecting

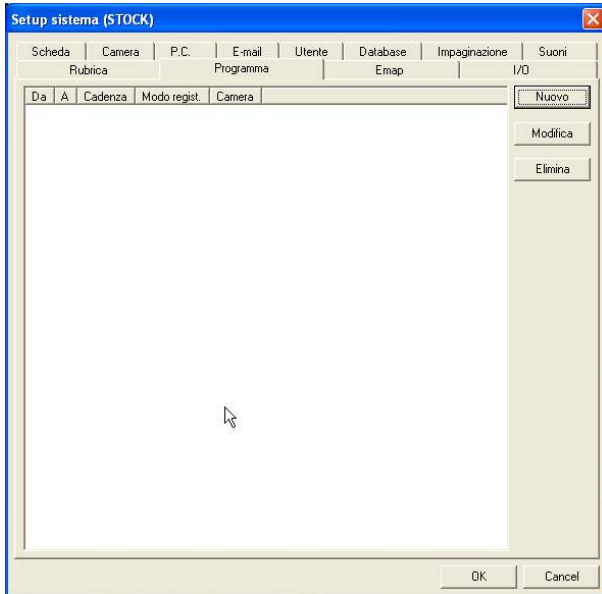
case sensitive.

time program

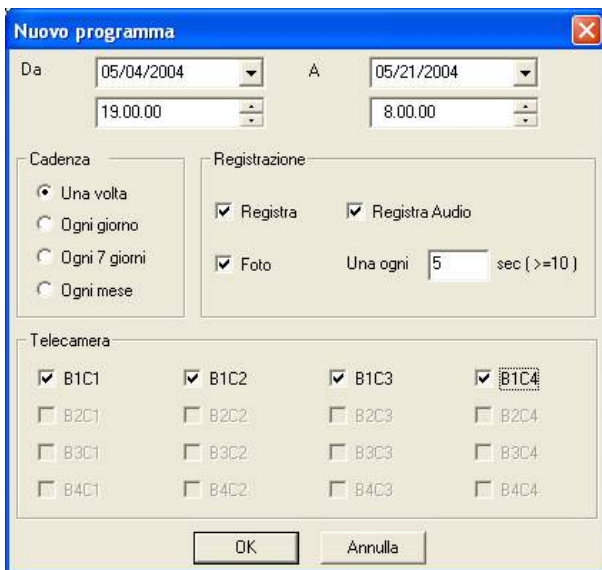
D-Vision allows you to start recording and / or take pictures automatically on the basis of a time programmer customizable calendar. Select the Programs folder



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NEW Click now to enter at your first automatic programming.



From to In this section set the beginning and the end of the automated registration period, inputting the date and time.

cadence Choose a daily, weekly or monthly. You can also choose a program that is performed sporadically once.

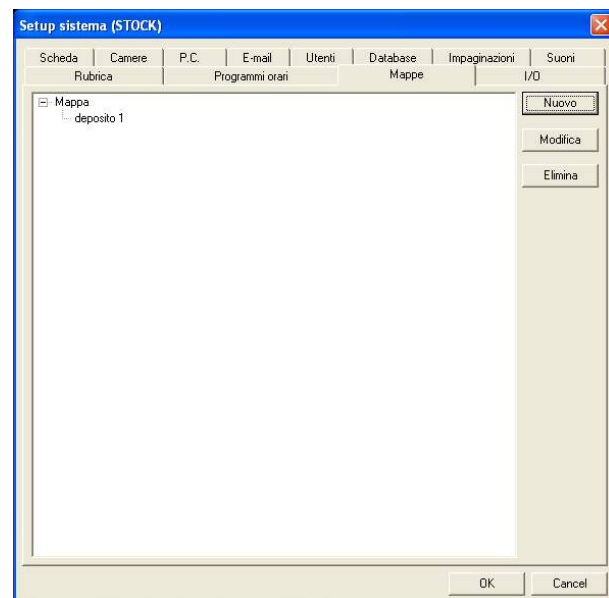
registration Set here the type of recording you want to perform. RECORD enable recording the video for the whole set, the AUDIO RECORD will associate the sound recording, PHOTO will match the production of static frames and

in the next window you can choose the distance of time between shots and the other

Cameras Here you can select which cameras will be covered by the registration during automatic operation.

Map

D-Vision allows you to import one or more maps of the protected site and view over impression in the arrangement of the cameras. The icons of the cameras will change appearance depending on the state of the same (at rest, in recording, alarm), and you can click on them to quickly display the image. To access programming Click MAPS:



Pressing **New** you can create your first map giving it a name and choosing a BMP file you want.

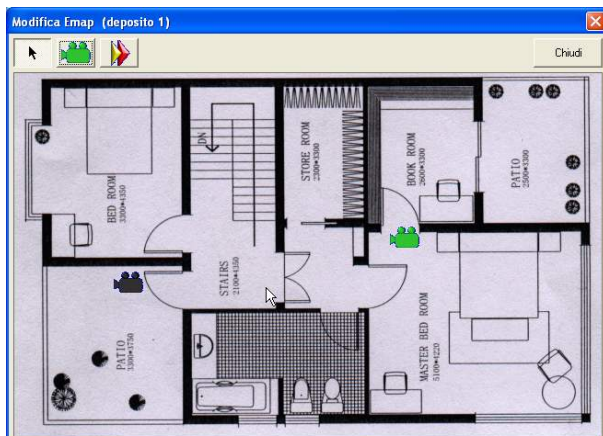
For example, you go to the scanner a map, or create it with a graphics program such as Corel Draw or similar. Then save the image in BMP format in the folder EMap D-Vision. And **it recommended save maps with 640x480 resolution**, as different resolutions would be extended or reduced resulting in a loss of quality.

You can create multiple maps depending on the extent of the protected site.

Double clicking on the description of the newly created map you can open it:



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Now you can add the cameras clicking the camera icon at the top and then clicking again on the map where you want to place it. A properties window will ask you to which PC, camera card and you want to tie the new icon. After entering the information and confirmed you can now move it will by dragging it with the mouse after clicking the arrow button at the top.

Double-clicking on the camera you can edit its properties.



The button It allows you to insert a link with another map already programmed, so that clicking on it will be transported to another environment. It can be, for example,

Interesting

use it at the beginning of the scales that may lead to a higher plane to forward the user with a simple click in the new environment.

The use of MAPS will be explained in detail later in the registration section.

cards I / O Options

In this folder you can enter the relay inputs and outputs devices (VG-IO) and any speed dome cameras that D-Vision will control. Please refer to the relevant section you will find below.



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THE REGISTRATION

After seeing the settings available in the previous section we move on to see how you use D-Vision.

To activate the cameras and start recording just press the REC button



The compression algorithm

D-Vision is the only digital recording system for PC to use a compression algorithm specifically developed for

surveillance, called VGZ. Unlike other compression systems it is specifically developed for long-term records where an image can also remain unchanged for a long time. Being fixed CCTV cameras, this situation is proposed whenever the environment is not an intrusion.

The compression algorithm is able to take up very little space in the recording still scenes, to let available in the intrusion recording. For this reason, the D-Vision files have a variable size although always contain a predetermined recording time: depends on how much motion has occurred.

Start recording of all cameras

At the start of D-Vision does not show an image on the screen and all the cameras show the written STAND-BY. And 'necessary to start

there recording. Start recording does not mean forcibly recorded on the hard disk because each camera can be set to record or show only images.

To start recording all cameras



at the same time that's enough press the REC button of the disc commands. Click the button STOP for to interrupt all the registrations pending. In recording the cameras show the image shooting, or you will see a

NO VIDEO signal if there is no input video signal. It 'also possible that the camera shows the indication RUNNING if you are recording but not enabled the display setting (see camera settings).

scheduled Recording

D-Vision allows you to start and stop recording on basis of a calendar customizable. The function has been described in the section SYSTEM SETTINGS.

Camera Status Icons

In the corners of the pictures reproduced by D-Vision may appear icons that indicate the status of the camera. They are the following:



The little hand icon at the top right indicates that the camera is selected (click on the image) and will be the subject of subsequent actions such as adjusting image, or PTZ control.



The P icon in the lower right corner indicates that the camera is object of REGISTRATION

SCHEDULED



The icon with the exclamation point appears at the bottom right when the camera has generated an alarm.



The icon in the lower right film indicates that the camera is being recorded



The speaker icon that is available of the 'AUDIO playback in real-time.

camera controls and execution of real-time photos

The section at the bottom right of the display information is used to adjust the image of every





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single camera.

One must first select the camera to be adjusted by clicking on it and verifying that it appears a little hand indicator in the upper right. Then you can act on the controls listed below from left to right:

Discard masks It allows you to delete the selected camera all intrusion detection masks set. The masks, namely the sensitive areas within which

the movement of a intruder will generate an alarm, they are easily obtained by clicking on an image and dragging the mouse to complete the rectangle will remain indicated the image itself.

Photo Clicking this button will take a real-time picture that will be saved in JPG format database. Of course, the picture will cover the camera at that time had been selected.

Text Activate the overlay image information of the selected camera. They are shown: the start time of the recording, current time, the card and the camera name name

text Color It allows you to choose the color of the overlay so that ridges adequately according to the background.

video Configuration From access control

of parameters of image optimization camera selected. The window shows to side, It allows to adjust Brightness, Contrast, Saturation and Color Tone. The button

DEFAULT restores the factory settings



Audio real-time

Each D-Vision card handles two audio inputs. By connecting the included cable have at your disposal offers 2 RCA connectors (white / red) where you connect the audio of the cameras 1 and 2.

If you enable AUDIO management in CAMERA OPTIONS (see above) and activate the LIVE AUDIO OPTIONS function in the PC (see above), you can hear the sound through your PC speakers by simply clicking on the camera you want. The function is also available for remote connection. The cameras for which audio playback is available from the icon will be distinguished:



Use of Maps

As we described in the previous section on settings system, D-Vision allows

create graphical maps using as a background image in BMP format that represents local and supervised by placing on them the camera icons.

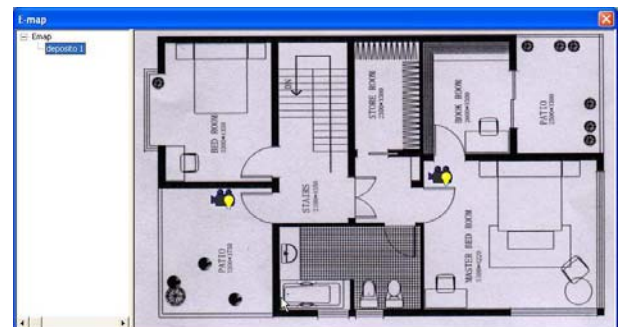
Use of Maps is very practical, especially for very large sites where only the camera name will not be immediate idea of where you are. After importing the maps of local and supervised positioned

the cameras appropriately (see previous chapter), you are now ready to use the Maps application.

To view the maps you need to click the MAP button settings drawer



A window will appear formed by 2 sections. On the left you will see listed all the maps that you have programmed in the system settings. Simply click on one to display it in the section on the right.



The icons of cameras that have set in the setting section are not only inert figurines, but can take on a different appearance depending on the state of the camera to which are coupled:

Camera with access denied signal - The camera is missing or you are wrong to set its properties.

Camera with lit lightbulb - The camera is active (in viewing or recording)

Camera with dark bulb - The camera is inactive and is not sending any video signal.

Camera with exclamation point - The camera is in function and has generated an alarm

Click the various maps on the left and realize at a glance if the various areas of the protected site there are abnormal situations or both nancy. At any time you can with a simple double-click on a camera display the corresponding image.



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The motion detection

D-Vision allows you to generate local and remote alarm in case of intrusion. There is no need to install motion detectors or telephone dialers, but you can use the same cameras as detectors. After detecting an intrusion D-Vision can activate the

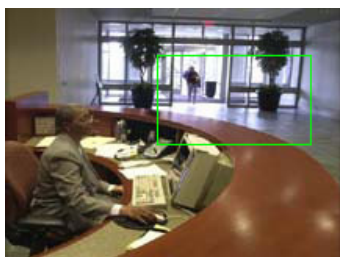
signals hearing
via the PC sound card, take pictures,
get started

recording and also send

calls
remote (needed
voice modem).
First you need

setting up

for each said sensitive areas camera MASKS.



To set a mask click the camera image and drag the mouse to select the desired area. These areas will be the sensitive zones of the protected area within which a modification of the image (intrusion) will generate an alarm. The picture shows an example where a conveniently leave the receptionist detection mask mail free to move while generate an alarm when it enters a visitor.

There is no limit to the number of masks that can be set on a camera, but you must set at least to take advantage of the alarm functions.

The outline of the masks can assume 3 colors:

green Outline - Mask is not violated. It is not

It has been revealed any intrusion

blue Contour - It's been revealed but an intrusion

the programming of D-Vision is not enabling it to generate the alarm, for example, due to the sensitivity of the filter or to a time slot where the alarm is not enabled.

Red - violated mask which generated

alarm

In the previous chapter, under Options cameras, we have seen that for each camera you can make detection more or less sensitive to movement in order to effectively detect intruders without generating false alarms.

Accurate adjustment is only carried out through repeated tests verifying that the mask color changes only when performing real intrusion.

Preview

And 'possible to see the last few minutes of recording per camera without interrupting recording the course using the preview function. Just click

the camera image with the right mouse button and select the PREVIEW function. This will open the following window:



Just set in how many minutes before you want to start play (from 1 to 99 minutes) and click OK. Because the function is able to play a video, you need of course the recording is enabled and that insufficient time since the start of recording. Otherwise you will get an error message.

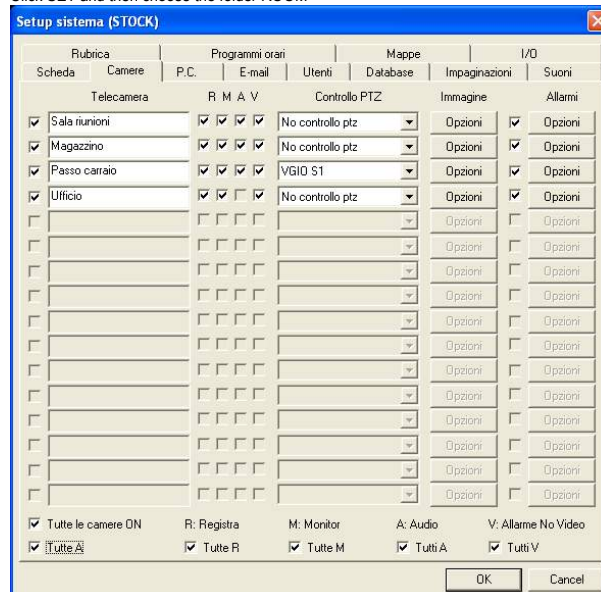
alarms

The detection function of the movement that we have described just above is used to start an ALARM following an intrusion. For completeness, it is worth remembering that two other situations can cause an alarm: the video signal loss and the activation of an input of the VG-IO board. But such actions are put in place by D-Vision after an alarm?

After detecting an intrusion D-Vision can perform different actions
you can be programmed
specifically for each camera. We need to return to the SETTINGS TRAY



Click SET and then choose the folder ROOM



As you can see corresponds to each camera in the right column an authorization alarms that activates its Options button. If you want the camera in question can detect an intrusion and



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generate alarms enabled the box and click the Options button. The following window appears



You can set the following parameters:

alarm duration - The first thing to set

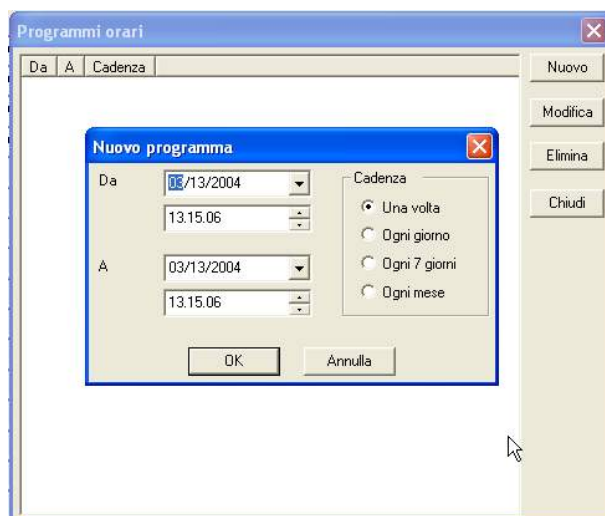
It is the duration of the warning period. It means that when the alarm is generated it will last for the set period, at the end of which will end. When will a new intrusion will generate a new alarm, etc.

Street.

The alarm sound is played throughout the duration of the alarm, while other actions are performed only once. The minimum duration of an alarm is 10 seconds, but it is recommended that, in the generality of applications a higher per minute duration.

Activation time band - If you want the

Alarms are generated only in a period of the day (for example only at night) or on particular days of the week, or on a specific day of the year, activate this function and open the HOURS table to select the various time slots in which it will be enabled the generation of alarms



as you see you can set an unlimited number of programming with cadenza daily, weekly, monthly or sporadic-ONE-OFF. Enabling time zones, alarm detections generate a true alarm event, with its actions

consequential, only in certain periods programmed.

Play sound - If you want the sound card

the local PC to play a sound for the whole duration of the alarm enable this feature and choose the audio file from the library.

Take a picture - Enabling this function are

subsequent photographs taken to document the alarm time. You can select the number of photos.

remote Alarm - This feature allows you to contact a remote site in case of alarm and will be described shortly.

Enable output - Enables one or more

outputs in case of alarm (is required at least a VG-IO card installed). After enabling the function and clicked on

Options button you will

select the outputs you wish to activate.

NOTE: The alarms and logging.

If the camera is programmed to record continuously

(**Record** qualified),

I shoot

Alarm does not change anything, except possibly increase the number of frames captured.

The alarm, however, will leave an easy track to find in video memory and also can activate the various programmed actions. If it is programmed to not record a camera instead (**Monitor** active and **Record**

disabled), then the alarm occurrence will have the start of the registration for the whole duration of the alarm.

The remote alarm

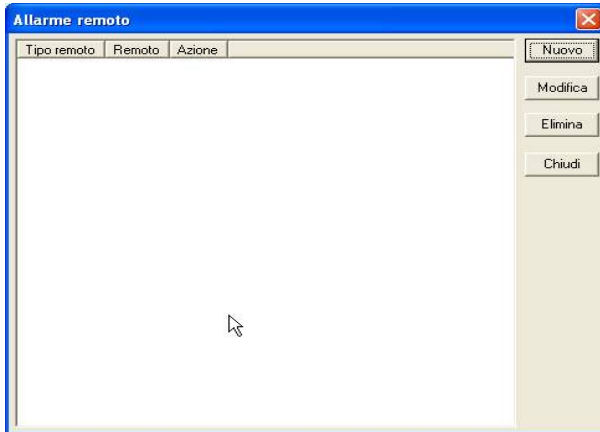
D-Vision can send alerts in various forms to remote sites. To program them back to the window just saw in the previous section of the alarm options



REMOTE ALARM enabled and click OPTIONS



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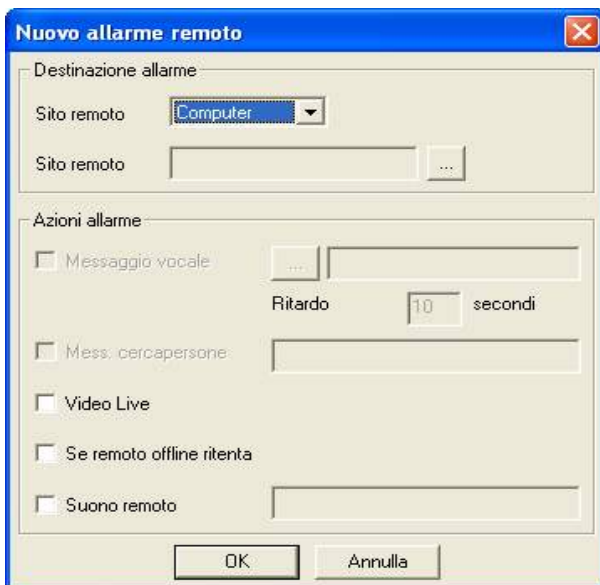
The window above where you can list all the actions to be implemented when the programming object camera will generate an alarm. Click **New** to set the first alarm action.

insert several consecutive actions that use the modem (Phone / Pager)

2 - Paging - To send business messages to pagers. And 'possible to set number and message.

3 - Computer - To connect to remote PCs connected via LAN or Internet modem. You can select from the agenda the remote site then choose whether you want to enable the **transmission live video** so that the camera on the remote site is immediately displayed. It 'also possible to set a sound to be played on the remote PC to the alarm reception. You have to introduce the name of the sound, as it is inserted into the library of the remote PC (not the local PC). The option IF REMOTE ONLINE retry must be enabled if you want that in case of unreachable remote PC, DVision automatically send the video as soon as the remote PC is reachable again.

PLEASE NOTE : The local alarm duration must be sufficient to allow remote alarm is sent without interrupting the execution underway to end alarm.



They are available three types of remote sites

1 - Telephone - And 'you can send voice messages to landlines and mobile phones.

By choosing the option TELEPHONE you can then choose a number from the phone book and to record a voice message. You can record a message in WAV format.

The messages that you want to send via telephone in case of alarm should be saved
in size **PCM**

8000Hz, 16-bit, mono.

It 'should also set a delay to message playback as to give time to the modem to make the call and the recipient to reply.

PLEASE NOTE: Consider that it is possible to make one call via a modem, so do not serve



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REPRODUCTION

Since D-Vision has been developed to handle extended recording has evolved systems of image consulting. All

know, In fact, how tedious search the desired image on a video cassette inserted into a VCR, let alone when you have weeks and months to scroll. Thanks to D-Vision all this will not be a problem and you can quickly find what you are interested not only in the PC you're working, but on any other connected remote system.

The search for video clips

D-Vision keeps track of individual files programmable duration (default 120 minutes). To search for the file you are interested please click the PLAY button on the control panel. The front of the control panel will be transformed as follows:

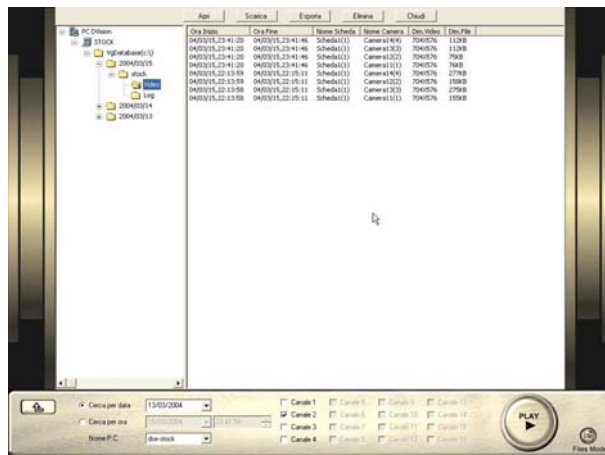


To search for the recording period of interest to choose first in the "PC Name box" PC that interests you among those available connected. You can then choose two possible search options: SEARCH BY DATE AND RESEARCH TO DATE AND TIME. and enter the parameters of interest.

On the right side of the panel you need to choose which cameras are object of the research. E' can choose up to 4 cameras will be played simultaneously.

finishing the settings, press PLAY.

The button at the bottom right also allows a manual search by exploring the hard disk and manually choosing the files of interest. You will see a screen like this



The database folders (local and remote) are divided into folders named by date containing 4 subfolders Video (contains videos continuous), Picture (containing photos) Alarm (contains the alarm footage), clips (contains clips cut and saved). Open that of interest to you and select the file.

NOTE: The search can take place even on connected remote PCs, as long as it is entered into D-Vision with a password that allows access to the area. In this case you have to press the DOWNLOAD button to download the file on the local PC and then play it.

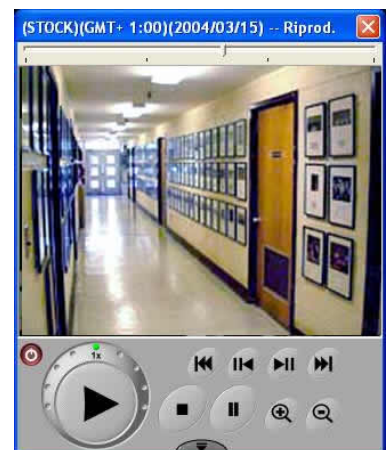
*Also a button export to move files from one database to another, and the DELETE button to hover unnecessary files.

Reproduction

Once unearthed files of your interest you have to do is press the PLAY button or double-click on one of them to open the playback window:

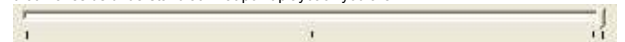
Superimposed can be reported:

Tab name (top left)
Camera name (top left)
Now start clips (in bass to left)
Now the end clip (bottom left)
Now current play (in bass to left)



At the top there is a scrollbar

that makes us understand at what point playback you are.



It is a very important tool in that you can drag and scroll through the pictures very fast.

PLEASE NOTE You can not drag the bar on short duration video files.

Under the window there are the playback controls:





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Fast Forward, goes to the next segment



Frame-by-Frame Advance



Back frame by frame



Rewind, goes to the previous segment



Zoom +



Zoom -

The feeds and fast rewinding are made in lengths of 160 frames caduno. Just press the back / forward button to skip to the next or previous segment.



The PLAY button which obviously serves to to boot there reproduction is particularly high performance since it is equipped with a ring nut that allows to speed up or slow down playback to taste (slow motion)



Pressing the bottom tab is accessed some controls that allow you to manipulate the video.



Start CLIP. And 'possible to click this button to start a selection of movie you can save separately, for example to isolate a particularly important scene



End CLIP. End selection



Save CLIP. Save the selected clips in the CLIP folder database



Play CLIP. After creating a selection with the above command you can play it with this button.



It allows you to take a picture of the movie in real time, so you can then print, email or save to disk in order for example to provide a printed documentation of the incident.



Show and hides impressions over the name of the card, the camera as well as current date and time and start / stop recording.



Change the color overlays to provide contrast with the background color.

The search for photos

D-Vision can take pictures on various occasions. They are saved in the Picture folder. To find the photos of interest to select them with research in FILE mode

The photos are saved in folders which have names like: dyyyyyymmdd ie d + year + month + day, eg. d20020625. The last 6 digits of the file name are hh.mm.ss ie hours.minutes.seconds. Double-click on the shows. And 'possible to click the print button to print it being able to choose the scale with which to print (zoom +/-).

The alarm memory and user memory

D-Vision keeps track of all alarm events generated by the cameras (local and remote) and all user access (local and remote). For the pleadings must click LOG in the tray settings.



It appears the window with the memories listed at the top of the alarm events and the underlying user access.

Memoria Allarmi/Utenti							
Cerca data	05/10/2004	Apri	Cancella tutti	Stampa	Chiudi		
Data/Ora allarme	PC/...	Scheda	Camera	Tipo	Origine	Gia'visto	
05/10/2004 12:45:27	STOCK	Scheda1	Ufficio	Locale	Video Perso	No	
05/10/2004 12:36:47	STOCK	Scheda1	Magazzino	Locale	Video Perso	No	
05/10/2004 12:36:46	STOCK	Scheda1	Ufficio	Locale	Video Perso	No	
05/10/2004 12:36:46	STOCK	Scheda1	Passo carraio	Locale	Video Perso	No	
05/10/2004 12:33:29	STOCK	Scheda1	Ufficio	Locale	Video Perso	No	
05/10/2004 12:33:29	STOCK	Scheda1	Passo carraio	Locale	Video Perso	No	
05/10/2004 12:33:29	STOCK	Scheda1	Magazzino	Locale	Video Perso	No	
05/10/2004 12:28:11	STOCK	Scheda1	Ufficio	Locale	Video Perso	No	
05/10/2004 12:28:11	STOCK	Scheda1	Passo carraio	Locale	Video Perso	No	
05/10/2004 12:28:11	STOCK	Scheda1	Magazzino	Locale	Video Perso	No	
05/10/2004 12:20:34	STOCK	Scheda1	Ufficio	Locale	Video Perso	No	
05/10/2004 12:20:34	STOCK	Scheda1	Passo carraio	Locale	Video Perso	No	
05/10/2004 12:20:34	STOCK	Scheda1	Magazzino	Locale	Video Perso	No	
05/10/2004 12:15:17	STOCK	Scheda1	Ufficio	Locale	Video Perso	No	
05/10/2004 12:15:17	STOCK	Scheda1	Passo carraio	Locale	Video Perso	No	
05/10/2004 12:15:17	STOCK	Scheda1	Magazzino	Locale	Video Perso	No	
PC	Nome utente	Data/Ora	Azione	Tipo utente	Note		
STOCK	francesco	05/10/2004 18:54:24	Login	Locale			
STOCK	francesco	05/10/2004 13:04:34	Logout	Locale			
STOCK	francesco	05/10/2004 11:54:23	Login	Locale			

Select the day of your interest in the above box.

In the alarm menu they are listed all the alarms generated by the local PC or received from remote PC. The last



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entry on the right (GIA 'SEEN') will indicate NO if the video has not yet been viewed, after which it will become YES. The SOURCE column indicates what has triggered the alarm (CAMERA, VIDEO or EXTERNAL INPUT FAILURE).

Double clicking on the alert you will open there registration related to it (if it was programmed) E 'possible, with the top buttons, delete events in memory, or print the list.

DV-Player

Together with D-Vision software is installed in the program folder a practical viewer VGZ movies. It is a small file named DV PLAYER.EXE that allows movie playback of D-Vision. E 'can copy it to a floppy disk or in a CD along with the film, to allow viewing of the same without having to install D-Vision.



This small program allows there conversion of a D-Vision VGZ files to AVI (Function From VG to AVI) for playback on the player to Windows. This is however not recommended

in

Given the considerable size of uncompressed AVI files and long time required by conversion.

If you need to convert to AVI you are recommended to first select a short CLIP of interest and save it separately and then make the conversion.



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CARDS INPUTS

D-Vision allows of to check different external equipment. These devices can be of two types:

input / output unit which can be used for connecting external inputs (eg. sensors) and relay outputs (eg. sirens, lights, alarm devices)

Cameras suitable for the speed dome via serial control of PTZ (Pan-Tilt-Zoom, namely the movements of the motorized pan, tilt and lens control).

Let us first the input / output unit

The input / output modules

D-Vision accepts two types of input / output modules for connection with external electrical devices:

VG-IO = internal card to be connected directly to the capture card

PT811 = External module to connect to the serial port of the PC.

The PT811 module provides 8 inputs and 8 relay outputs, while the VG-IO or disclose 4.

I / O internal VG-IO



VG-IO

It connects to the capture card via a flat cable and is powered by means of the typical cable PC power splitter (supplied). The card is designed for mounting on the back of any ATX, from which, once carried out the installation, will be visible to the terminal connections.

On the card, next to the 20-pin connector, there is a jumper (A) which must be opened.



The 4 inputs can be connected to alarm sensors
or to stations
The 4 relay outputs can directly drive up to 7A to 30 VDC.

Theft Protection.

Below the maximum budget of VG-IO you can to card type:

- DV-XP4 ... Max. 1 VG-IO card

- DV-XP8 ... Max. 1 sheet VG-IO DV-RT4 ... Max. 1 sheet VG-IO DV-RT8 ... Max. 2
- VG-IO cards Install a VG-IO module is simple: just plug the card

acquisition and will be automatically seen by D-Vision software.

External I / O Module PT-811

External modules have the advantage of being carried away from the PC. In addition come in handy in case you need a very large number of inputs / outputs are not sufficient and the VG-IO cards. The module is composed of a main element, named: **PT811** which provides 8 inputs and 8 open collector outputs. For it can connect an additional module called **PT-908** which transforms the 8 OC outputs in relay outputs.



PT-811



PT-908

The I / O module PT811 communicates with a PC via an RS485 serial port. Since the serial ports of the PC are normally a RS 232 RS232 / 485 converter is used to be ordered separately (ref. SD-232485). The module must also be powered at 12V DC, for example with a RE-AL2 power supply (not supplied). The advantage of RS485 port and can fix the module up to 1 km away from the computer. The RS232 / RS485 converter is used to connect the PC COM port on one side and has the 2-wire RS485 port on the other. They must be connected to 2 terminals of the PT-811 using a twisted pair that is, with the wrapped cables between them. If your interface RE232 / 485 has 4-wire RS485 use only the first two (+/- TX). To connect the relay module PT-908 must physically wire the 8 OC outputs of the PT-811 OC to 8 inputs of the PT-908. They will be transformed into 8 inputs / 8 relay outputs high control capacity (5A at 220VAC, 12VDC 3A) of more practical use.

E 'can connect to the same serial port on your PC up to 32 PT811 modules, provided they are set to different addresses (set by programming special software)



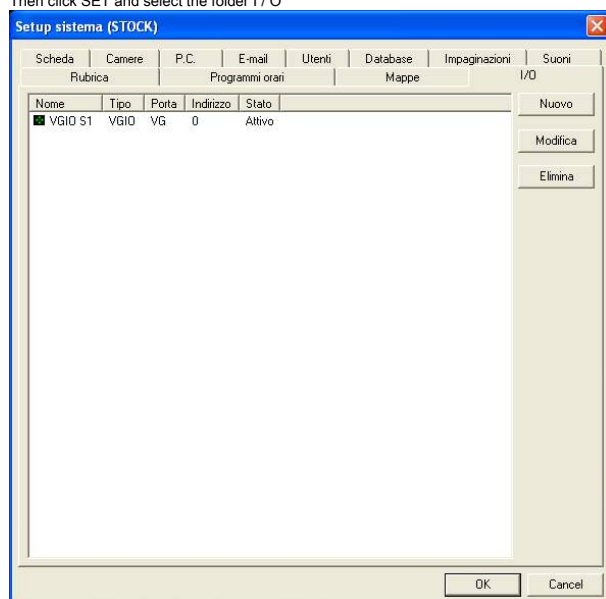
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The recognition of I / O modules

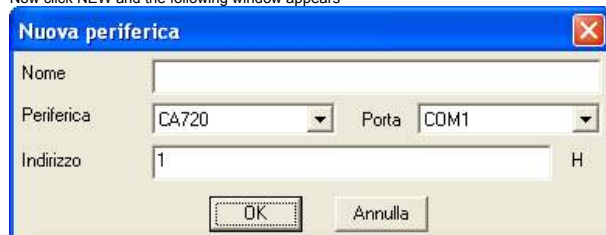
After finishing the installation of the module I / O you must make it recognize the D-Vision program that will start using it. Open the drawer of the SETTINGS



Then click SET and select the folder I / O



Now click NEW and the following window appears



Here you can set:

- Name of the device you want to install the device type Communication Port
- Address

Select the card type PT811 or VG-IO and the port to which you've connected (for PT811 only). The address you can leave it on one unless you want to stop using the same COM modules. In this case, enter

the hexadecimal address corresponding to module inserted.

If there is shown a door opening error and failed to add the module is because D-Vision does not communicates with the card. Check the goodness of

connection and especially the proper functioning of the RS232 / RS485 converter in the case of external module.

If you are able to activate the module you will see that the LEDs near the door of the PT-811 RS485 module start flashing.

Now you can select the name of the module I / O and press CHANGE



This window is common to both the peripheral inputs / outputs that to speed-dome cameras. You will find the inputs 1 to 8 and outputs from 1 to 8. In the case of a VG-IO card you will use only the inputs / outputs buttons 1 to 4. At the top there is the option:

Enable watchdog - This option enables the watchdog function of the D-Vision system. Each D-Vision card is in fact provided with a cable for the Watchdog which can be connected between the jumper JP2 and the reset of the card connector of the

PC; for instance the one to which is connected the front reset button.



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The watchdog function is not needed for operation of the board, for which you can not safely connect the cable; But connect it will restart the PC in case of malfunction

of the software D-Vision.
If the PC are inserted more D-Vision cards simply connect the watchdog of any of them.

Consider that the D-Vision watchdog function is able to detect errors made by the D-Vision card, not from other PC components.

Now click on any output and you can select the options.

Output Options

The window you see determines the output electrical behavior selected. There are different settings:

First name - For example siren, flashing light, Open-door, GSM transmitters, and whatever you want to activate.

Type OFF / ON - normally inactive output that active in case of alarm

Type ON / OFF - normally active output that off in case of alarm

Puls.1 - normally inactive output that is activated pulse. E 'can be programmed to the left on the time and the pulse off time and the number of pulses to be carried out as a result of activation.

Puls.2 - Output as above, but normally active.

Exchange - Output for stable exchange. If you select this option, the output will be activated in case of alarm and will remain in this condition until a new alarm not report to the rest.

Top the option is available:

Use PTZ. If you enable this option the next selection box is activated which allows you to choose which function to give this output in the control of movement of

cameras with pan motorized. The units inputs / outputs can in fact be used very effectively to the control of Motorized Pan & Tilt, where the control up, down, up, down, zoom, close, zoom away etc. They are imparted with simple relay contacts.

In CAMERA OPTIONS, we've already seen, you can associate the I / O card that you plan to one or more cameras. obviously

is necessary that provvediate suitably to the output connection with the command of tilt depending on the latter's technical specifications.

Input Options

If you now click on an entry you can set the features.

The options are as follows:

First name **entrance** - Infrared, button, microcontact, probe, thermometer, anti-theft alarm, and any type of detector you want to connect.

Input type - In this section you have to decide if the input in question will be used for the generation



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direct alarms or rather to enable / disable the detection of alarms. If you choose the option

Alarm They will enable all of the following items and you decide what action to take when this input should generate an alarm. If you choose the option **Enable / Disable Alarms**,

options following are turned off and the entrance will only serve to arm or disarm the alarm detection, a bit like switches on or off a burglar.

Programmers enable times - As well as

we have seen for the detection of camera movement (see above) that can be activated only at certain times of the day, even the alarms generated by

external inputs have a

programmable timer that allows you to activate and suspend the input capacity to generate alarms. If you want to do this, you have to activate the option and then click on the Programs button to set the time slots during which

detection

alarm will be activated.

Play sound - If you want the sound card

the local PC to play a sound for the whole duration of the alarm enable this feature and choose the audio file from the library.

start recording - If you want to

occur alarm, following the activation input, the recording is started, enable this function and choose which one or desired cameras are being recorded. A window will open that will allow you to toggle the camera. In the case of a speed-dome camera, controlled via serial and recognized by the software as a device, you can also indicate on which the default position (PRESET) move, for how long and at what position remain back. If you want the camera rests on the preset and do not return anywhere else selected the shooting time = 0

Enable output - Here you can choose to activate

one or more outputs if the input that we are planning to generate an alarm.

The local and remote control of the relay outputs enables advanced applications able to combine the vision and the remote control, with features very useful in industrial processes and automation.



Output Drive

Once the I / O device configured it is possible to activate the 4 outputs to taste. Just turn on the REMOTE CONTROL with the button to the left of TRAY SETTINGS, then press the arrow button between the three options

of control



available.

It will see the control panel on the right where you can select the I / O board in the top box of choice and control outputs manually and switch between them with a simple click.

The left output circle will change from white to black to highlight that the activation was carried out. E 'can also activate outputs on remote PC.

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CAMERAS SPEED-DOME

The Speed Dome cameras are sophisticated motorized cameras, whose movements and the objective of which are remotely controllable through a twisted pair, usually an RS485 serial line.



These cameras provide a normal analog video output that can be connected to any input of the D-Vision card. The control of the displacements is normally carried out with a control console equipped with Joystick



D-Vision allows you to control several models of speed dome cameras, the most common on the market, replacing the control console.

The speed-dome cameras are connected via the serial port of the PC (typically RS232). Depending on the cameras used may be employed directly to the RS232 standard, or a converter may be necessary to switch to RS485 or RS422 (Ref. SD-232485).

It's very advisable to use cameras Speed Dome series SD-22 and SD-27 for which it is guaranteed the absolute compatibility with D-Vision commands.

If, however, it was available on cameras already existing, D-Vision includes the main communication protocols to also control Speed Dome of different brands.

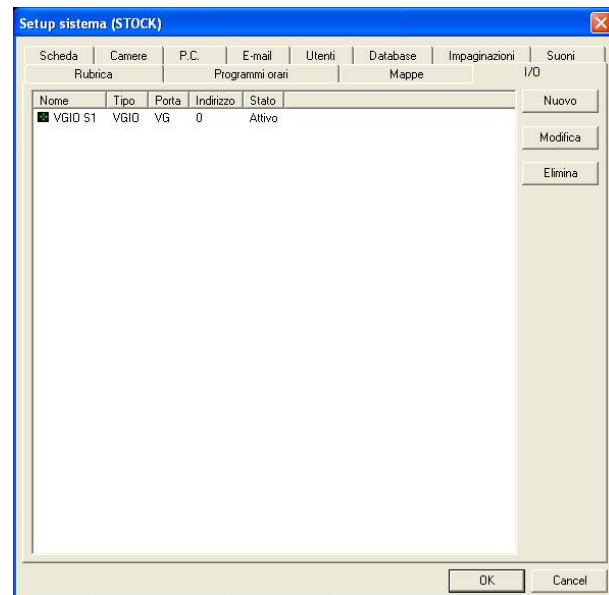
Connect the speed dome cameras

To connect the cameras to the COM port of the PC, follow the instructions that came with the camera. A single serial line can accommodate many cameras of this type, provided they have different address. For

the correct realization of the wiring do Referring to the camera documentation. If used cameras SD-22 and SD-27 series you need the SD-232485 converter to which cascaded all cameras via a twisted pair. The address of the cameras

imposed by microswitches and allows you to connect up to 32 cameras at a single COM port of the PC.

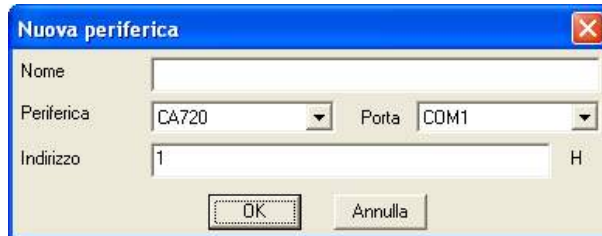
Once the wiring properly open the TRAY SETTINGS, select SET and then choose the folder I/O.



Now click NEW and the following window appears



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Here you can set:

Name of the camera that you want to install the device type (ie the protocol to use) Communication port address expressed in hexadecimal

D-Vision has the following protocols to control the speed dome models:

Pelco D at 2400, 4800, 9600 baud (for Speed-Dome SD-22/27 series cameras)

Pelco P at 2400, 4800, 9600 baud (for Speed-Dome SD-22/27 series cameras)

Lilin PIH717X Dynacolor

CA720 Eastel

Dentec KD-405 MP-1100

Sampo CSS Philips

Samsung

Panasonic WV-CS850 Mikami

PTC103A Sensormatic - RS422

The SD-22 and SD-27 series cameras using Supported Protocols Pelco P or Pelco D indifferently. The speed depends on (2400, 4800 or 9600) must be the same one that will set on the camera by means of microswitches.

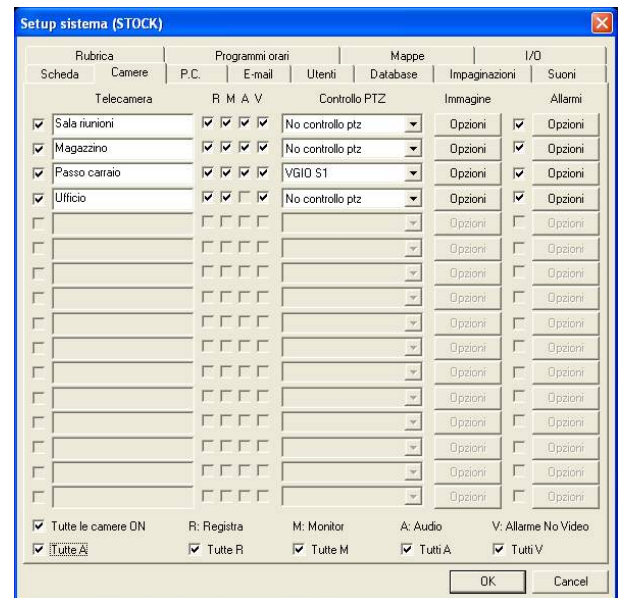
NOTE: You can not connect to the same COM port of the PC, various types of Speed Dome that use different communication protocols.

Clicking OK D-Vision will try to recognize the device on the indicated port and will indicate the activation in the STATE column. If there is shown a door opening error and failed to add the module is because D-Vision does not communicates with the device correctly.

Subsidiaries there correctness of connection, the address setting and the choice of protocol.

Once D-Vision has recognized the new Speed Dome to control you will have to match the corresponding video signal. Get back in the OPTIONS CAMERA we have described above, and select the

PTZ control that you just created to the video input side corresponding to that camera.



Control of PTZ Speed Dome Cameras

At this point you can try to control the speed domes.

That's enough activate the

REMOTE with the button to the left of TRAY SETTINGS, then press the center button of the three available control options.



It will see the control panel at the side with which you can control the camera in all his movements. To choose which camera control click on the image so that it appears

the hand indicator in the upper right.

The virtual console of D-Vision allows the following commands

direction Control

It is activated by clicking on the round knob at the base of TV remote.

It allows you to move the camera all directions.

Iris, Focus, Zoom They allow you to adjust

the lens aperture, focus and focal length (zoom).

Preset

Only Speed-Dome cameras help presets are predefined positions





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towards which the camera can go with a simple click or even automatically, for example after the activation of a (sensor) input.

The presets allowed by the camera will already be active on the remote (MEM1, MEM2, etc.). Depending on the type of camera may be available up to 32 different presets.

To set the first preset just position the camera as desired and click the button with the wrench to the right of the preset ..

NOTE: Only for Iliin PIH717X camera, you must first click the desired preset button, then position the camera and click the wrench to store the preset.

Now that you have created the presets of your interest you can view the image simply by clicking on it, or you can send the camera at that point automatically following an alarm.

Cruise

Once programmed the presets it's possible program the cruise function that consists of a predetermined sequence of movements that the camera may run. You must click the wrench icon to the right of the CRUISE button. Then enter one by one the desired preset with the retention time of each position. Now just press the button **Cruise** because the camera the sequence to begin pre configured.

NOTE: Some speed-dome cameras do not support this function

Auto Pan

This function allows the selection of two preset (see above) and make sure that the camera is constantly moving between these two presets

so as

horizontal, for example to control a wide open area.

You must click the wrench next to the written

Car and then to select the two presets departure / arrival and speed of movement. Now just click **Car** to start the movement.

Other controls

other controls are available to use for the cameras that allow it.

The ball left the various navigation options will become black when the function is active.



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D-VISION SERVER

D-Vision Server is a program that is automatically installed with D-Vision and that enables remote connection via local network (LAN) or the Internet using TCP / IP protocol. To start double-click on the desktop icon.

The supervisor

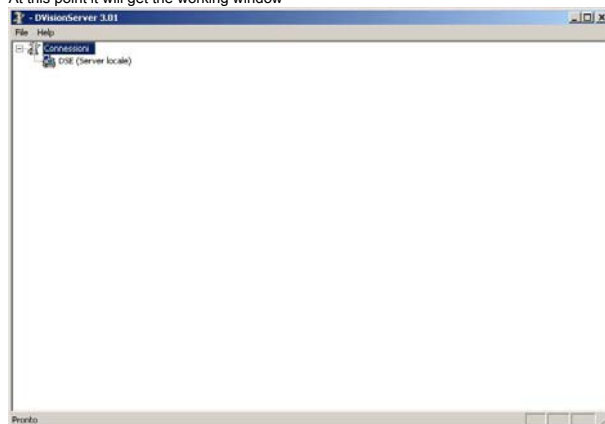
You will be asked a supervisor username and password twice, enter them and Remember them because if you forget it you will have to reinstall D-Vision Server.

The supervisor code is the only one who can add new users, change settings and close the program.

All other users will establish later on will only start the Server and / or access it from a remote D-Vision.

The design window

At this point it will get the working window



Once your straight connections will be built here you will see all PCs connected to the D-Vision Network, with their name and IP address. For the moment, no PC is being still connected, opening the CONNECTIONS tree you will only see the icon that represents the D-Vision Server are working with. When you plug the remote D-Vision, both with acquisition board that without,

you'll see them appear connected to the server icon. If you connect a different D-Vision Remote Server you will see another tree next to the first, with all PCs connected to the new server.

The name used to indicate the PC is the name entered as a network identifier in Windows TCP / IP properties.

Use D-Vision Server for access from LAN

D-Vision Server is a totally free program from D-Vision. It can be installed on the same PC it is installed on the card, but also on a different PC. As a rule you should install it on a PC network with good speed and bandwidth. Each D-Vision program installed in your network can connect to the D-Vision Server and from there all the PCs connected to it. E 'in this way can accommodate more network PC connected to cameras and countless

PC without connected cameras to be used only as monitors.

Use D-Vision Server for access from the Internet

Access via the Internet works in exactly the same way as access to LAN. It 'very advisable to have an Internet connection with a fixed IP address, not always having to reconfigure the IP for each access to the web.

Users

Access to D-Vision Server is password protected to varying degrees. To program the users log on as SUPERVISOR, then click LOGIN and enter password and supervisor's name. Now you can click *File-User Information*.



You will find the username you entered when you start. It is administrator of D-Vision Server, that is,



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the only one who can add new users and also the only one who can close the program.

Users D-Vision Server

If you want you can set other access codes. To do this, click the right mouse button on the window and choose NEW. Place name and password twice. You can then change the user name and password set, the user clicking the right mouse button and choosing EDIT.

In order to access D-Vision Server from a remote PC it is necessary that your user name and password is entered in this list . Then enter all the names and passwords of all users that will have access to D-Vision Server, both from the local PC or remote PC.

Connection between two or more D-Vision Server

And 'possible to link multiple D-Vision Server. This is a useful feature in the creation of complex networks. When two D-Vision servers are connected to each other users connected to one of them can connect to those connected to the other server.

E 'must obviously their password is recognized. To connect to another server just choose FILE - COLLEAGUE OTHER SERVER. It will open this window:



Where you can enter the IP address of the remote server, as well as the user name and password to access it. Once the connection is made the new server will appear in the list of CONNECTIONS and will be visible all other PC connected to it.

Auto Start

E 'D-Vision Server can be set so that it starts by itself at every Windows startup. To do this click FILE - AUTOMATIC START.

Access Restrictions

E 'can inhibit access to D-Vision Server to specific IP addresses. You must click EDIT - OPTIONS IP.

The window that appears will enable the field at the top or bottom depending on the option you choose in the section of the upper IP CONTROL TYPE:

Prevent access to the IP list - All the

IP addresses that you post can not access D-Vision server, even if username and password are correct. This type of control is used in a complex network composed of many PCs, creating protected areas, ie PC to which only a few authorized stations can connect

Allow access to the IP list - All the

IP addresses that you post will have access to D-Vision server if a user name and password will be

correct. This is useful to protect the network from unauthorized external attack, especially in relations

via internet. Anyone trying to

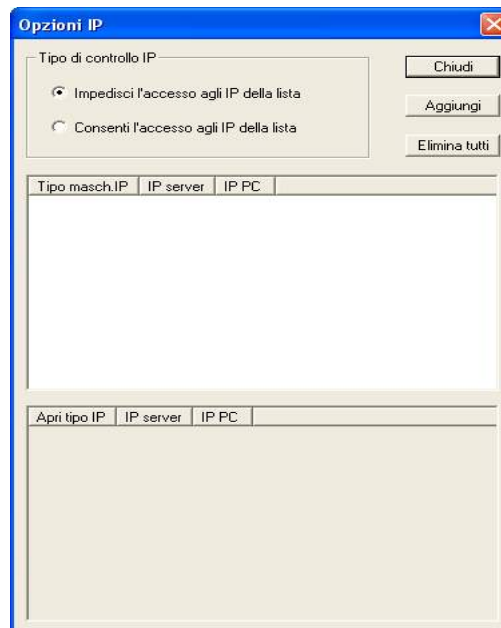
access the server from another computer than those authorized, despite having D-Vision software and password, it will surely locked. Imagine, for example, the case of a former employee aware of the password.

The access restrictions for entering a new IP address

hierarchical level, which alongside

a

Password protection allows optimal management of complex networks with several operators.



After choosing the mode of operation can add the first address by clicking ADD:



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In the first box at the top you have to specify what kind of IP you are inputting. There are 3 options:

local PC - It means one of the PCs connected to the D-

Vision Server on which you are working. By choosing this option you will place further down the address of the PC, while the SERVER IP box will be inhibited because the server is clearly the one on which you are acting.

remote Server - It means another D-Vision Server

that attempted a remote connection SERVER-SERVER. It only enables the SERVER IP box, while the PC IP box will be unusable

remote PC - It means one of the PCs connected to a D-

Vision Remote Server. In this case you must enter either the IP address of the server and the IP address of the PC connected to it.



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REMOTE ACCESS VIA MODEM

One of the most interesting features of D-Vision is the ability to monitor the protected environment from a remote site via modem, local network or internet.

In this section we will call "Local PC" the computer connected to cameras is usually located on the premises to be monitored, we call instead "Remote PC" the PC from which you display the images at a distance.

D-Vision allows remote control in three ways:

Modem-Connection Data Connection of the local LAN
connection via the Internet.

Let us first modem connection.

Who should the connection via modem

The direct modem-modem connection is the most practical as it runs only when needed and does not require anything other than a telephone line. It is not, however, the more powerful because it transfers less frames per second of a connection via the Internet

and obviously through LAN.

The modem connection costs nothing if you can not, however, the call link has the same cost of a voice call between the two sites, which is quite expensive to very distant sites together.

Requirements for connection via modem

The modem connection requires a standard analog telephone line. Each PC must be equipped with an analog modem with voice function properly installed.

preliminary checks

Before proceeding to the execution of a remote access via modem check the following conditions:

- Check that the modem and its driver are installed and functioning properly. IS' Moreover essential that they are not installed other drivers for different modems that D-Vision could use in error. Open **DEVICE MANAGEMENT** Windows folder and verify that the modem is only one driver; possibly remove intruders.

- Use an external modem. Many economic internal modem cards using the CPU processor for processing the data. D-Vision does not support this type of card.

- Do not use ISDN adapters, unless they have analog modem function. D-Vision supports only analog modems. If you have only one ISDN line and do not want to buy an adapter with a modem function, you can still make a connection via the Internet.

- D-Vision was designed for modems with **Rockwell chipset** which they are normally used on all non-branded modems. Avoid using modems with different chipset (such as US Robotics, Lucent, Smartlink, Motorola etc.) and spend big money in luxurious modems that offer many functions developed in a proprietary way. Use a simple modem brand not based on Rockwell chipset, you'll be sure to meet the needs of D-Vision.

- Enter the same **Username and password** in both PC and be sure to access the D-Vision using this username. Beware of lower and upper case because passwords are CASE SENSITIVE

The modem connection

And 'course must install D-Vision on 2 computers. The local PC will be equipped with the adapter attached to D-Vision / camera and / e and process images. The remote PC will require only the D-Vision software installed.

The first thing to do is enter the local site's phone number to call in the phone book of the remote site (see above).

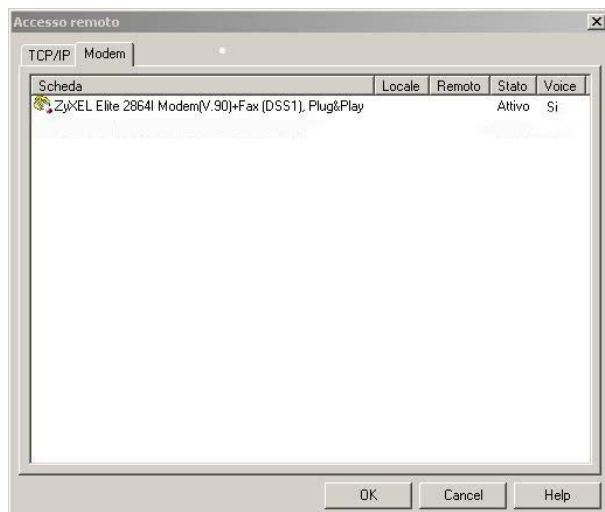
Now, working on the remote site, click the Remote Access button (LINK) which is the first on the left of the setting tray.



This will open the dial-up window where you need to select the folder **Modem**



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communication End

Once completed the remote surveillance operations, it is necessary to disconnect the modem, since the cost of the call is the same as a voice call, then counted as a rule based on the duration of the communication.

- Press the LINK button and select the folder MODEM
- Select the active modem with the right mouse button.
- Click *HOOKS*

Now click with the right button on the modem and choose *Who loves*.

You are asked to call. You can directly enter the local site's phone number to call, or click the button ... and heading choose the local site number you have preset.

The modem of your PC will make the call and you will see its description vary from state

Calling Linked to Offline.

If the link does not go to fruition verify that the user name and login password you used to access the D-Vision remote PC are also included in the local PC and that it is enabled in both cases the authorization to 'remote access.

remote Control

Once you have established the connection between the two PCs activated the remote control (see above) and you'll see the icons that represent them,

such as
example here to
side. The options
good of D-Vision is suggested to be present one driver for the modem.
control remote
they are described in
below in the section REMOTE CONTROL





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REMOTE ACCESS VIA INTERNET OR LAN

Remote access via LAN and over the Internet works the same in that they both take place over TCP / IP protocol.

In this section we will call "Local PC" the computer connected to cameras is usually located on the premises to be monitored, we call instead "Remote PC" the PC from which you display the images at a distance.

Who should the Connection via LAN

The LAN connection is ideal for companies where there is already a network of PCs. You can install one or more D-Vision cards on several computers and install the program only D-Vision on the computer that will act as a pure monitor. From any PC on your network will have access to all PCs equipped with the card so have several monitors and recorders without additional wiring in addition to the computer.

If the network is working properly and no bottlenecks at passing information on remote sites will see about the same number of frames per second available on the local PC.

Requirements for connection via LAN

The LAN connection does not require that a PC network based on TCP / IP protocol. Each PC must be equipped with network card and correctly recognized within the network itself.

Every PC on the network must be assigned a unique IP address and is not used by the automatic assignment of IP (DHCP) server.

DHCP stands for Dynamic Host Configuration Protocol. In a network of this type each PC receives its address from a PC server (DHCP server). D-Vision does not support this condition

operation and

It necessitates that the IP address is resident in each and every PC on the network. You can get a remote connection to a DHCP network, but it is possible that the PC address will change in the future, making it necessary reconfiguration of D-Vision.

The configuration of a network is not treated in this manual and it is assumed that the installation of the program is carried out on an existing network installed and running.

Who should the connection via the Internet

The Internet connection is ideal for remote access and provides numerous advantages over the modem connection:

The number of frames per second transmitted via the Internet is higher than transferable in the modem-modem connection.

The communication costs are minimal and independent of the distance between the two sites

Requirements for connection via the Internet

The basic requirement to make a connection between two PCs via the Internet and, of course, that the 2 PCs are properly connected to the Internet. You can make the connection with any means: analog modem, ISDN modem, ADSL modem, fiber optics etc. Obviously the greater the bandwidth that the means of connection allows you and the greater will be the number of frames / second that will see remotely.

D-Vision automatically adjusts to the available bandwidth so it is also possible to work with very poor bands.

One important thing to consider is the difference between the maximum bandwidth of your connection and the bandwidth actually available. Internet providers often spectacular speed, but they are never reached in reality as the maximum resource

it is used from more users at the same time. You can easily account for this "trick commercial" asking how much it costs to have a band, even minimal, but always GUARANTEED.

To operate remotely with D-Vision does not require a very large bandwidth, but obviously will have more bandwidth available and more frames / second will see. In order to make the best of the internet connection is highly recommended to choose, at least for the local PC where you connect the camera, an ADSL subscription because, in addition to broadband, will give you the opportunity to always have your local PC on the network and ready for connection. Apart from this it is almost mandatory to buy a pass that grants a fixed IP address, so make sure the address you want to connect without having to know every time.



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Here we explore the topic.

The IP address

Each PC of a network is distinguished by its own IP address. Similarly, each computer making a internet connection is identified by an IP address, just like it does on a local network. If you use a paid provider, and then you have a subscription on your behalf, it should not be hard to let you assign a fixed IP address, although you will have to pay for this service. This way each time your computer will go to the network will always be identified with a default IP address that will be in some way its "identity card" of the Internet.

If you used to free internet connections (TIN, INFOSTRADA, Tiscali etc.) you will be dealing with a dynamic IP address (*FLOATING*) namely that changes whenever made a connection. Your computer will have in practice an "identity card" itself but will be assigned "a temporary identification card" each time you connect to the network.

The remote connection of D-Vision also works in this situation, but each time the local PC will disconnect from the Internet IP address will change and you have to know to be able to connect from the remote site.

If you plan to use the remote control of D-Vision assiduously it is undoubtedly preferable to have a fixed IP, otherwise you will need to configure your PC each time you connect.

The problem arises only fixed IP on the local PC connected cameras, while there is the remote sites, where you can safely have a normal subscription.

If there is possible to get a fixed IP you do not have some loopholes that allow you to make permanent a dynamic IP. The first is to use a paid service, available online, which registers the new IP of your PC to any Internet access, and I will simply reveals querying the site. There are several similar services in Italy and free.

Another system is installed between the PC and the network hardware firewall to keep always powered. In this way, even turning off the PC to your IP address will be the same.

The IP address of the FASTWEB network

In the major Italian centers you can connect to the Internet via optical fiber. The major provider that now offers this service FASTWEB. The internet connection

Optical fiber offers

surely the widest bandwidth availability possible today, so that you will see even remotely the same number of frames / second you see at the local, just like you were on a local network.

But you must consider that Fastweb assigned to PCs connected to an internal address to its network that is not visible from the outside. To use the remote connection of D-Vision is necessary to request the PUBLIC IP service that gives a fixed IP address and visible from outside the network (extra cost). The public IP address is not required if both PCs are located within the Fastweb network. In this case, however, you will be dealing with a dynamic IP address for which is as good as in the previous section.

How to know the 'IP address of a PC

- Toss a DOS window available between the Windows accessory programs.

```
Prompt dei comandi
Microsoft Windows XP [Versione 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\DSE>ipconfig

Configurazione IP di Windows

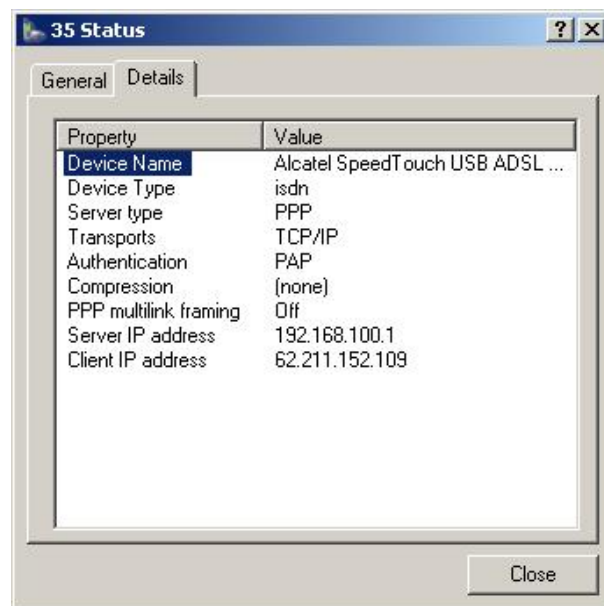
Scheda Ethernet Connessione alla rete locale (LAN):

    Suffisso DNS specifico per connessione: fastwebnet.it
    Indirizzo IP . . . . . : 192.168.2.3
    Subnet mask . . . . . : 255.255.255.0
    Gateway predefinito . . . . . : 192.168.2.1

C:\Documents and Settings\DSE>
```

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

- If you are connected to the Internet with a modem (analog or DSL), click the right mouse button on the PC 2 in the task bar at the bottom right corner, then choose **STATE**:





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DVision DVision Connect to Server

To connect a PC to the D-Vision Server, proceed as follows:

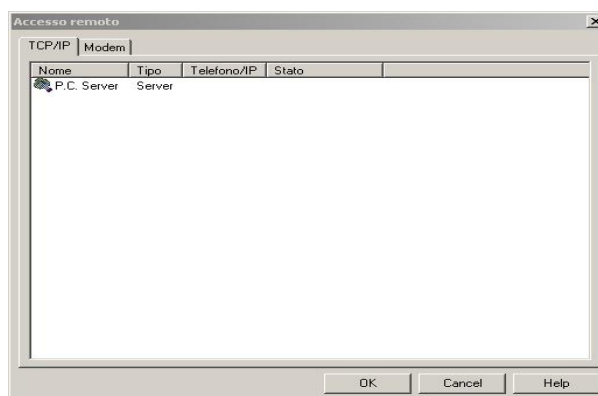
Throwing D-Vision

Enter the IP address of the PC where the D-Vision Server resides in the directory of the D-Vision software. (See above how to CONTACTS).

Click the Remote Access button (LINK) which is the first on the left of the setting tray.



This will open the dial-up window where you need to select the folder **TCP / IP**



You will see all listed IP addresses of sites set as a server in the directory. Presumably, if you use a single D-Vision Server you will only find in this list. Double-click on it and you'll see the item in CONNECTED STATE column.

RELATED If the item does not appear, check that your user name and login password you use to access the D-Vision remote PC are also included in the D-Vision Server and is enabled remote access authorization.

E 'need to connect to the Server DVision all peripheral DVision. So the same procedure described above should be performed on all the PCs you want to connect, whether they have the D-Vision card is that they are the only display points and have only D-Vision software installed.

NOTE: E 'likely to decide to run the D-Vision Server software on the same computer where you installed a D-Vision card and where so you running a D-Vision for its management.

The fact that the D-Vision is running on the same PC D-Vision Server does not mean they automatically connect. You'll have to make a remote connection to the D-Vision server just as you do from a remote PC.

D-Vision Server

The server program (see above) is crucial for access via LAN or the Internet as it handles the communication between the various connected PC.

To proceed with connection via LAN or INTERNET it is necessary that at least one D-Vision Server program is running on at least one PC on the network, or on one of the PC connected to the internet.

D-Vision server can be run on the same PC where they live cameras, or on another even where there is no D-Vision card and even the D-Vision program.

On all PCs, whether they are equipped with card or not, you must install the D-Vision client program, the same used for the card's control.

The sequence of operations to be performed is as follows

Connect the local PC (the one with the card) to DVision Server.

Connect the remote PC to the D-Vision Server, with similar procedure.

Access from the remote PC to your local PC Operate remotely

preliminary checks

Detect the IP addresses of all computers you want to connect and annotate them.

Make sure your PCs are visible on the network. The easiest way to do this is to open a DOS window and type PING followed by a space and the IP address of the other PC. They will appear the replies received PC called.

Launch D-Vision on all PCs that are to be connected. Launch D-Vision servers on a single PC, usually the one with the card installed.
PC: This is the IP address it is assigned to your PC over the Internet.

Control password

Why the remote connection will be successful if you access the D-Vision remotely with a password that has been registered in both the D-Vision Server in the local D-Vision to which you connect. To avoid mistakes agrees that the request for initial setup password of the various D-Vision and the same D-Vision server always to insert the same password in order to have with it access to all sites. Beware of lower and upper case because passwords are CASE SENSITIVE



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Connect to the D-Vision Remote

Once you're connected to D-Vision Server

activated the
TV remote with the
button to the left of the tray.

There appear all connected PCs
in that
when the D-Vision Server.

At this point you just have to double click
on the PC to which



You want to connect to and enter in connection. If the double click you should be prompted to USERNAME AND PASSWORD means that the destination computer does not accept your LOGIN. Check that you have had access to the D-Vision with a user name and password that are also included in the D-Vision you want to connect.

After connecting, you will see the screen divided into a variable number panes depending on the detected record.

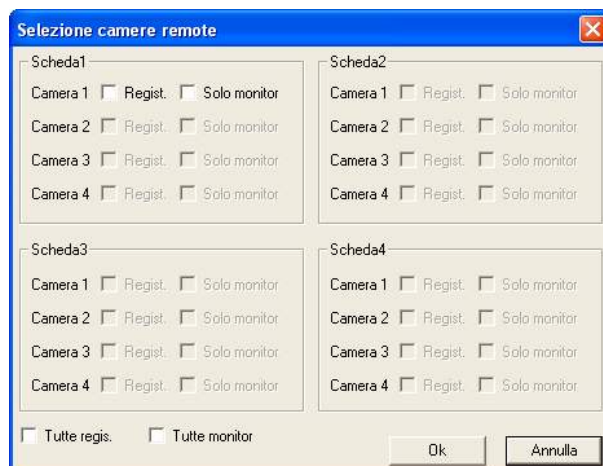
At this point you can use all the commands of D-Vision and will act directly on the remote PC. Press the REC button that will allow you to see the cameras connected to another PC. You will see the screen of choice of the cameras where you can choose which camera to view and record whether or not on your PC.

Connection via Firewall or Router

If your Internet / LAN is protected by a firewall, you must enable **Doors 48100, 48101 and 48103** used by D-Vision for communication. Similarly, if the PC to which you are connected is connected to the Internet

through a router, it is necessary
program the router to direct ports
48100, 48101 and 48103 to the PC on which D-Vision is installed. For

the correct addressing of the ports do
refer to the manual of programming and
router configuration that used.



Select the cameras and press OK. You can now work from remote PC with all available commands as if he were the capture card on your PC. The main controls are detailed in the following pages.



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REMOTE CONTROL

Connect to the D-Vision Remote

No matter who you're connected to a PC remotely via modem, LAN or the Internet, in all cases, if you activated the TV remote with the SETTINGS button to the left of the drawer, there appear all connected PCs



in that moment. At this point you just have to double

click on the PC you want to connect and get into connection. If the double click you should be prompted to USERNAME AND PASSWORD means that the destination computer does not accept your LOGIN. Check that you have had access to D-Vision with a user name and password that are also included in D-Vision you want to connect.

If the connection is successful you will see the screen split in a number of sections consistent with number of cameras managed by the PC: 4 if you are running a single card, 8, 12 or 16 if multiple cards are installed. If the remote PC is not installed any D-Vision card you will see only the box with the center of the D-Vision logo. At this point you have access to various remote control functions that illustrate later.

Monitor / Register

remote

The first thing you want to do when you have made a remote connection you see the remote cameras.

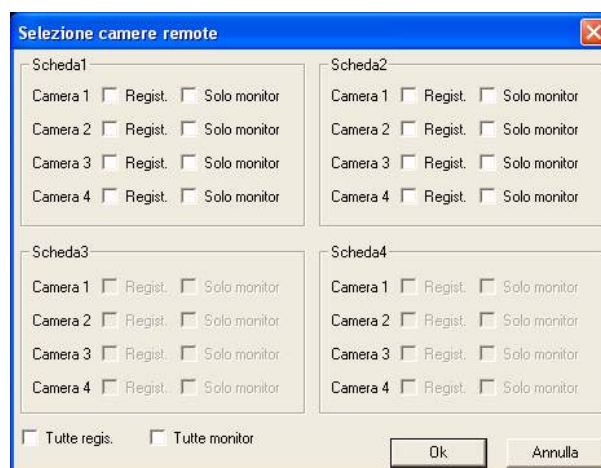


The fact that the D-Vision to which you are connected to whether or not the recording is active or

less viewing of images, does not matter much since remote you are able to fully control the system and avviarne to taste recording.

However, given that all operations svolgiate remotely it will also locally. as if you were telecomandando the PC where the cameras are actually connected.

Press the REC button and you'll see a dialog box to choose the cameras you wish to view.



The window can handle up to 4 cards from 4 inputs, but of course you will see only enabled cards actually installed on the site to which you linked. Select the cameras you want to see. If you select the option REGISTRATION remote camera it will also be recorded in real-time on the PC you are working on. If selected MONITOR ONLY images will only be displayed. Keep in mind when choosing the bandwidth you have available. If you are on a modem-modem connection there

should select more cameras simultaneously, because the band will not be suitable to let you see a sufficient number of frames per camera. If you are in the LAN connection, or you have a large guaranteed bandwidth, you can select

also all the cameras at the same time

Audio real-time

If the local camera is equipped with audio you can listen to the audio in real time, even remotely. The audio will be reproduced automatically clicking on the camera image. The cameras for which is available from audio listening function are identified by the icon on the right.



Image adjustment, eliminating masks, text overlay, picture-taking



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While monitoring the cameras at the remote site you have access to parameters

of regulation



image, text overlay and color of the superimposed text. Keep in mind that by acting on these parameters really changed the parameters of the local machine and thus also in the local recording will be affected by your changes. E 'can also remotely delete the masks for the detection of the movement and take pictures.

Settings

A limited number of system settings are also available by direct remote by pressing the SET button



Editable settings relate to CARD, the PERIPHERALS CAMERAS and I / O.

Several options are editable only if you log on to a D-Vision is not being recorded, otherwise not be accessible.



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REMOTE ACCESS WITH IEXPLORER

DV-Webcam

To use the remote control features of D-Vision via LAN or INTERNET is highly recommended to use the D-Vision program on both the local PC and the remote PC as described poch'anzi. Sometimes, however, this can not be possible, for example because you are using the PC on which it is not permitted to install applications, or because it allows remote access to non-qualified people who would be uncomfortable in having to

install a software application and nell'apprendere operation.

In these cases it may be convenient to use the DV-Webcam plugin that allows you to view images via LAN or the Internet simply with Internet Explorer and Windows Media Player as it were any webpage. DV-Webcam allows

visualize your cameras from anywhere in the world, simply by doing the following:

1. Find a PC connected to the Internet
2. Download the plug-in from the website www.dseitalia.it
3. Type the address of your site supervised Internet Explorer

Download and install the plug-in

If you want to connect via TCP / IP (LAN or Internet) to your website monitored using the Internet Explorer browser must first download the plug-in that will enable your Internet Explorer to understand the D-Vision program language. Open Internet Explorer and log

to the place www.dseitalia.it surfing then in section download / software. For those who want to save time, the direct link is:

[www.dseitalia.it/files/DV WebCam.exe](http://www.dseitalia.it/files/DV%20WebCam.exe) (respecting upper and lowercase letters and spaces).

You will be asked whether to save or run the file: choose to save the file to a location known to you, such as your desktop.

Once you downloaded the file and double-click the icon and it will start installing the plug-in that will make Explorer can play, with its Windows Media Player, the videos of D-Vision.

Remote connection with Internet Explorer

After installing the plug-in, open the Internet Explorer as a normal navigation. In the address box, type the following address:

vgtp: // address-dvision / #

In place of "address-dvision" enter the IP address of the PC you want to connect, instead of "#" enter the camera number to be displayed (1..16). Es. Vgtp: //199.156.2.28/1 means that you want to connect to a PC that is connected to the Internet or to a LAN with IP address 199.156.2.28 and you want to view the camera 1.

This will start the installation of the plug-in Windows Media Player for Internet Explorer that you have to follow until the end. At this point it will launch Windows Media Player and you will be prompted for a password. E 'need to type a valid password recognized by D-Vision system to which we

Yes is connecting to complete the connection.

Connection via Firewall or Router

If the Internet connection is protected by a firewall, you must enable the brings 5000,5001,5002

used by DV-Cam for the communication.

Similarly, if the PC to which you are connecting and connected to Internet through a router, it is necessary program the router to direct the communication to the PC on which D-Vision is installed.



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Main technical data

	DV-XP4	DV-XP8 + TV	DV-RT4	DV-RT8
Slot type	PCI	PCI	PCI	PCI
video Inputs	4 (BNC connectors)	8 (BNC connectors)	4 (BNC connectors)	8 (BNC connectors)
Maximum number of cards for PCs	4 (16 inputs)	2 (16 inputs)	4 (16 inputs)	2 (16 inputs)
audio Inputs	2 (RCA connectors) + Line IN of the sound card	2 (RCA connectors) + Line IN of the sound card	4 (RCA connectors)	8 (RCA connectors)
video Outputs	-	1 TV output (RCA connector)	-	-
Video Signal compatible	Composite video 1 Vpp 75 Ohm	Composite video 1 Vpp 75 Ohm	Composite video 1 Vpp 75 Ohm	Composite video 1 Vpp 75 Ohm
Video format compatible	PAL or NTSC	PAL or NTSC	PAL or NTSC	PAL or NTSC
compatible audio signal	2 V pp 50 Ohm	2 V pp 50 Ohm	2 V pp 50 Ohm	2 V pp 50 Ohm
Size of captured frames (Resolution)	704x576 (PAL) 640x480 (NTSC)	704x576 (PAL) 640x480 (NTSC)	704x576 (PAL) 640x480 (NTSC)	704x576 (PAL) 640x480 (NTSC)
Frames / second per card	Max. 50 f / sec in PAL Max. 60 f / sec in NTSC	Max. 100 f / sec in PAL Max. 120 f / sec in PAL	Max. 100 f / sec in PAL Max. 120 f / sec in PAL	Max. 200 f / sec in PAL Max. 240 f / sec in PAL
Frames / second per video inputs (with all recording channels)	Max. 12.5 f / sec in PAL Max. 15 f / sec in NTSC	Max. 12.5 f / sec in PAL Max. 15 f / sec in NTSC	Max. 25 f / sec in PAL Max. 30 f / sec in PAL	Max. 25 f / sec in PAL Max. 30 f / sec in PAL
Frames / second per PC max. (16 inputs)	Max. 200 f / sec in PAL Max. 240 f / sec in NTSC	Max. 200 f / sec in PAL Max. 240 f / sec in NTSC	Max. 400 f / sec in PAL Max. 480 f / sec in NTSC	Max. 400 f / sec in PAL Max. 480 f / sec in NTSC
Automatic synchronization Yes		Yes	Yes	Yes
watchdog function	Yes	Yes	Yes	Yes
Compression Algorithm	VGZ Owner	VGZ Owner	VGZ Owner	VGZ Owner
Hardware Compression	-	-	H.264 (MPEG4 Part10)	H.264 (MPEG4 Part10)
Hard Disk Recording	Files of adjustable duration from 10 to 120 minutes	Files of adjustable duration from 10 to 120 minutes	Files of adjustable duration from 10 to 120 minutes	Files of adjustable duration from 10 to 120 minutes
Management of multiple Hard Disk	unlimited	unlimited	unlimited	unlimited
To save individual frames	Possible JPG	Possible JPG	Possible JPG	Possible JPG
Recording sound	24 Kbps ADPCM synchronized to video	24 Kbps ADPCM synchronized to video	24 Kbps ADPCM synchronized to video	24 Kbps ADPCM synchronized to video
playing audio	Real-time local and remote	Real-time local and remote	Real-time local and remote	Real-time local and remote