DV
DV-N8-N16

Digital video recorders stand-alone
8/16 video / audio input

D-Vision embedded

INTRODUCTION

One of the main purposes for which it prepares a video surveillance system is the ability to video-record images continuously in order to keep clear track of every happened. Until a few years ago, the only devices capable of performing this function were to VCRs tape in so-called TIME-LAPSE versions for extended recording. Digital video recorders are the natural evolution of these digital their analog ancestors and allow in them a large number of advantages.

The major benefits of digital recording than the recording on videotape

- **Images unchanged in time** - I analog video recorded on a magnetic support delicate and perishable, such as there videotape. The Time-Lapse models, which often come up in a continuous manner, subjecting the cassette to high wear which requires continual replacement of the cassettes whose quality deteriorates at every overwriting. A digital recorder, instead of recording to hard disk, or on a computer disk that does not require maintenance and ensures outstanding image quality over time.

- **No maintenance - The analog video recorders are based on precision mechanical** organs, very delicate. If this can not be a defect in the normal domestic use, it certainly becomes the record uninterrupted, where you will need provide regular maintenance for the replacement of consumable parts. Digital video recorders do not have this problem and require no scheduled maintenance over time.

- **Images smooth, stepless - The** videotapes used in analog video recorders may contain 180 minutes actual recording REAL-TIME. To stand on the support 24, 48 or more hours of recording time, the TIME-LAPSE VCR recording fewer frames than the 25 frames per second required by the PAL video format. This results in images "jerky" very unpleasant. Digital video recorders instead use a medium such as the hard disk, much more spacious than a videotape and can record several days of images allowing for smooth viewing.

- **Management of more cameras** - A analog VCR has only one video input. To connect more than one camera to a VCR is necessary to use a multiplexer. This shall be recorded on a cassette frame for each camera in sequence to be able to to review each camera individually.
The use of the multiplexer multiplies the problem of "video jerky" as described above divides by 4, 8 or more, the number of frames / second registered (depending on how many cameras must manage). The

multiplexer is also an object rather expensive. Digital video recorders provide yourself with managing multiple video inputs without the need for expensive equipment and without affecting the fluidity of images.

- **software Features** - The use of microprocessors

high-level, makes digital video recorders capable of performing advanced functions, not feasible with analog systems, such as motion detection,

there

alarm generation and transmission to remote PC images via TCP / IP.

- **Simple management** **video clips** - I

Digital video recorders allow you to manage large video files finding the images of interest quickly. In analog video the need to unwind and rewind the tape makes viewing images and search for much more uncomfortable relevant episodes.

Digital video recorders and PC-Based Stand-Alone

There two solutions for to achieve a Digital video recorder: using a computer (PC-based video recorders) or use a specific device (VCR Stand-Alone).

- **The PC-based video recorders** Yes use

hardware of a PC, in which they are installed one or more capture cards such as, for example, the D-Vision cards. The functions of

recording

check with software that uses the PC's operating system. It is very high-performance video recorders, but require conviviality with the use of a PC that is always on.

- **THE VCRs Stand alone They are specially constructed machines for digital recording,**

more immediate use as it simply command with the front keys.

New video recorders stand-alone D-Vision embedded

The stand-alone D-Vision video recorders DV-N combine the advantages of PC-based video recorders and stand-alone

in a single

device.

In a stand-alone video recorder

easy to use and

minimum space was enclosed the powerful acquisition engine H.264 D-Vision used by cards acquisition D-Vision RT4 and D-Vision RT8. The result is a VCR with acquisition performance and compression similar to a PC-based model, but with the simplicity of use of a stand-alone model.

VCR and video-Servers in a Single Product

The DV-N video recorders are connected to a LAN or the Internet just like any PC via the rear LAN port.

From any PC on the network you will be able to view the cameras and access control functions and to recorded images.

The use of the same chip of acquisition and of the same software structure makes VCRs DV-N fully

compatible

in management of the

images is in

remote connection via LAN or Internet with

PC card D-Vision, making

possible there

realization of great

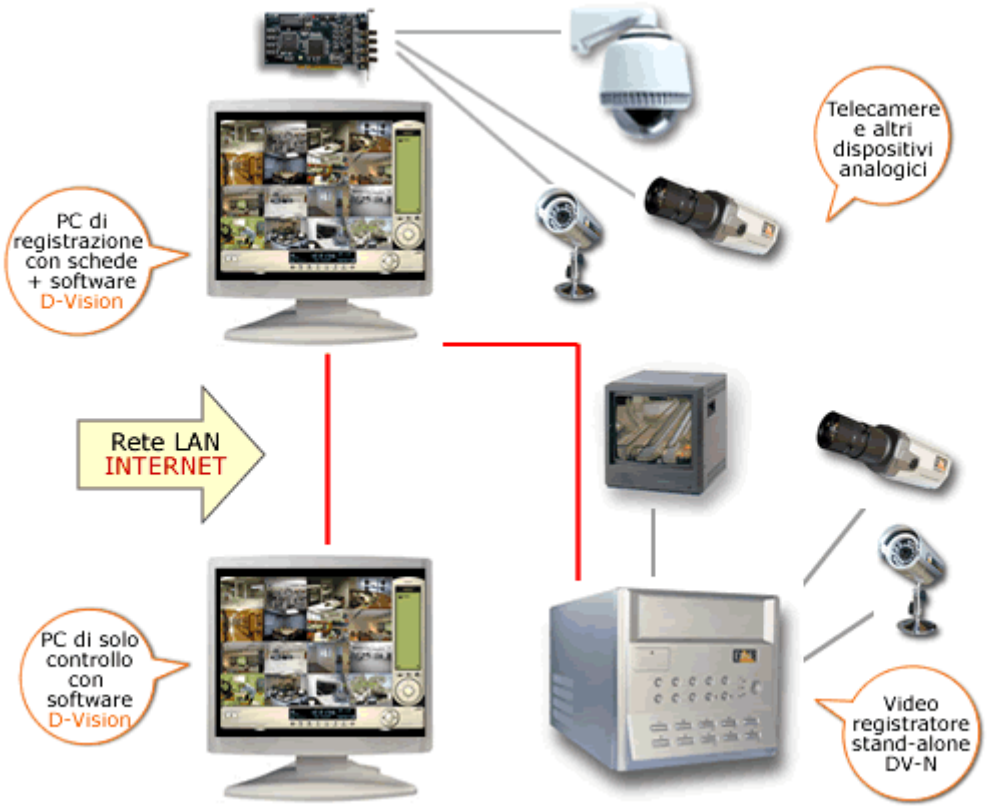
hybrid systems consist of

systems PC-based and

stand-alone totally communicating with each other.

The VCR combined function and IP video server, makes possible the realization of video over IP systems of high value for money avoiding the use of cameras over IP or video servers for each individual camera.

COMPATIBILITY 'FRA PC CARD AND VIDEREGISTRATORI D-VISION



GENERAL CHARACTERISTICS

hardware Features

Support **8/16 video inputs** with BNC connector + **8/16 audio inputs** RCA connector

1 analog video output CRT monitor + **1 VGA video output** LCD monitor informatic resolution 1024x768 75Hz

1 analog audio output minijack

4 alarm inputs for connection of sensors or external commands NO / NC

4 alarm outputs for controlling external devices to operate in the event of an alarm, as signalers acoustic, lighting etc.
Max 250VAC / 7A, 30VDC / 7A Support **max. 2 Hard Drives** SATA any brand and capacity.
Formatting automatic

2 rear USB ports Hard Disk external backup link

1 Front USB port Firmware update

1 Ethernet port RJ45 for LAN connection. Fixed IP and DHCP support.

Double supply 230VAC / 50Hz or 115VAC / 60Hz

Front Office prepared for eventual drawer for housing **Removable HDD (** not provided)

software Features

H.264 Hardware Compression, the last evolution of digital video compression. It allows you to save space on the hard disk from the records of long duration while maintaining high resolution and quality images High **704x576 resolution** PAL

speed global acquisition in display 25 f / sec per channel (real-time) fluid images and void "jerky"

speed global acquisition in registration Min.10.4 .... Max.12.5 f / sec channel. (With all the cameras simultaneously recording)

10 levels of picture quality selectable

Synchronized audio recording 24 Kbps ADPCM.
Playing Real-Time Audio locally and even remotely connected

Display in real-time Selectable to 16 or 8 frames. View full screen of a camera called up from the keyboard. Cyclic scan with adjustable interval

viewing images recorded with search by date / time, or based on the alarm list. Fast-forward and slow-motion

overlay of date, time and name customizable camera

video adjustment of brightness, contrast, **saturation, tone Operation TRIPLEX it allows to** not stop recording or during playback to remote access. PIP (Picture-In-Picture) for visualize simultaneously recorded images and real-time

Hard Disk Recording of all the cameras in an independent manner, either manually or automatically activated on the basis of a **calendar** programmable or following the detection of an intrusion (**Motion Detection).**
Possibility to start recording through **alarm inputs** rear

Alarm cables cutting for video signal absent

Motion Detection settable individually for each camera with adjustable sensitivity. E 'can set up to four sensitive areas (masks) for each camera. In Following the movement it is possible to activate the registration for an adjustable **time, an internal sound signal or a relay output Recording a warning phase** 3/5 seconds before the alarm

Remote Access multi-user computer
over the Internet or local area network (LAN). The remote access software D-Vision allows the mixed management of DV-N and PC card D-Vision systems. DDNS **support for dynamic IP usage. Protection password for local and remote access** operations

possible **from PC remote:** display cameras and listening audio in real-time, recording in real time on the remote PC, research and downloading of recorded video, manual operation of relay outputs

INSTALLATION

Package Contents

- Video recorder
- CD-ROM containing the software application D-Vision, the server program (to be used for network connection or via the Internet), and the manual in PDF format.
- 4 video cables each with four BNC connectors (DV-N16 only)
- 4 audio cables each with 4 RCA connectors (only 1 for DV-N8)
- Cable for Hard Disk internal connecting audio output cable with 2
- RCA connectors 220VAC power cable fixing fins according Hard
- Disk Screws for fixing Hard Disk

Hard Disk Installation

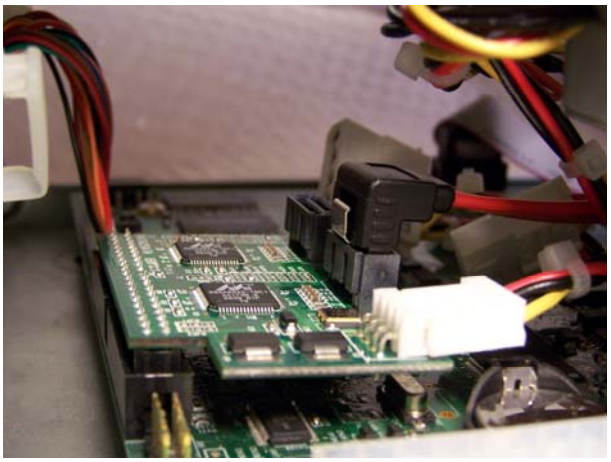
The first thing to do is to install the Hard Disk (maximum 2) inside the equipment. Without hard disk, the recorder is obviously not able to function. There is no limit to hard drive capacity for which we recommend using a high capacity (at least 120GB). The DV-N video recorders do not require that the Hard Disk to be formatted before being inserted into the machine.

E 'can install Hard Disk IDE (PATA) or SATA type.

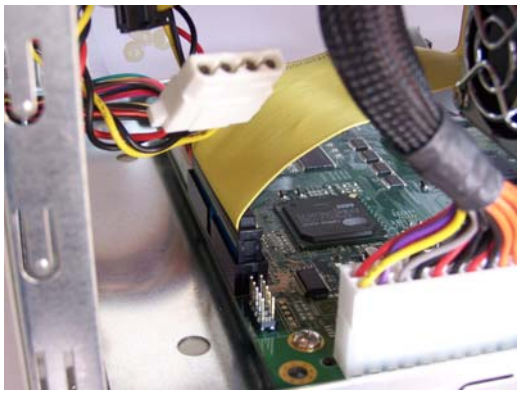
HARD DISK TYPE SATA

For install Hard Disk SATA type in VCR proceeds as it follows: Do not connect the power cord of the DVR recorder

- Remove the cover by unscrewing the 3 rear retaining screws
- Connect the SATA data cable to the SATA connected to motherboard video recorder.



- Fix the HDD into place and secure it with the 4 side screws
- Connect the other end of the SATA Hard Disk Data Cable.
- Connect the power cable to SATA Hard Disk If you need to install a second hard drive in order to increase recording capacity repeat previous operations The housing is also expected to there accommodation of a possible pull-out drawer front (not supplied) Close the lid of the VCR.



HARD DISK TYPE IDE (PATA)

The main hard disk must be set as MASTER, the second as SLAVE via jumpers on the hard disk itself. Do not use the CS (cable select)

To install the hard drive into the VCR proceeds as follows:

- Do not connect the power cord of the DVR recorder Remove the cover by unscrewing
- the 3 rear retaining screws

- Set the jumpers on the Hard Disk **MASTER'S DEGREE** (See indications typically printed hard disk itself).
- Disconnect the SATA interface for hard disk from the connector IDE motherboard video recorder.

- Connect the IDE cable to the IDE connector on the motherboard. The cable and IDE connector equipped with special invitations, which prevent the inclusion in reverse. Insert the motherboard any of the ends of the cable connectors.

- Fix the HDD into place and secure it with the 4 side screws

- Connect the IDE cable and the power cable HDD. The IDE cable has a central connector and a cable end. Use the center connector if you plan to add a second hard drive. If you expect only one hard drive the choice of the cable connector is indifferent. For

the power supply use one any of the two available connectors.

- If you need to install a second hard drive in order to increase the recording capacity, repeat the above steps, but by placing the HDD jumper to SLAVE and connecting it to the second IDE cable connector. The second hard disk must be placed into the top of the first using

the lugs of fixing provided. The housing is also expected to there accommodation of a possible pull-out drawer front (not supplied) Close the lid of the VCR.

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CAUTION - Handle the HDD with the utmost care. It is a very delicate and even a slight bump object, such as the fall from the hand on the table, can damage it irreparably.

Formatting Hard Disk

The DV-N video recorders do not require any prior formatting of the Hard Disk, indeed to avoid initialization problems recommend entering Hard Disk virgins who have not previously been formatted with other equipment. Formatting takes place on the first unit start-up and take a few minutes during which appear on the written FORMATTING monitor. Do not interrupt the formatting to its end. The file system used to format the HDD is EXT3 Linux, so it is advisable not to insert Disk un'hard previously previously formatted on a PC with Windows File System.

There is no limit to the maximum HDD capacity to use, however in case of hard drive larger than 250 GB, the device automatically will divide the hard disk into partitions of up to 250 Gb caduna.

Connections video / audio

The VCR has 8/16 video inputs.
To connect the cameras on the DV-N16 model you must first put the adapter cables on the back. They are supplied 4 video cables each provided with 4 BNC connectors.

The connections for the cameras and monitor are on the back, below the DV-N16 model:

- Connect the adapter cable to the rear camera video inputs marked with 1-4, 5-8, 9-12 and 13-16. Connect the cables
- coming to the cameras
  BNC connectors at the ends of wires. Keep in mind the following coding of the colors: YELLOW: 1st input, BLACK: 2nd entrance, WHITE: 3rd entrance, RED: 4th entrance. The incoming cable from the camera must be equipped with male BNC connector.
- For DV-N8 model you are not required adapter cables is Yes linking the cameras 8 directly to the rear BNC connectors.

The VCR has two video outputs that allow you to use either a CRT monitor (analog monitor or TV), and a VGA monitor to the Personal Computer. The monitors can also be used simultaneously.

- Connect an analog monitor (or a TV) BNC output marked by the icon TV (at the bottom right in the figure). When connecting a TV prompted a SCART / RCA adapter, RCA / BNC (not supplied)
- Connect a monitor from a personal computer to the PC VGA connector marked by the icon.

The VCR has 16 audio inputs to connect the audio outputs of the cameras. E 'must first

to insert the wires adapters on the back unit. They are supplied 4 audio cables, similar to those videos, but each provided 4 RCA connectors. The connections for the cameras and monitor are on the back, below the DV-N16 model:

- Connect the audio adapter cables to the rear audio inputs marked with 1-4, 5-8, 9-12 and 13-
  16. Connect the cables
- coming to the cameras
  RCA connectors at the ends of wires. To fear

present the following color coding: WHITE: 1st entrance, RED: 2nd entrance, YELLOW: 3rd input, BLACK: 4 ° entrance. The audio cable coming from the camera must be equipped with male RCA connector.

- For DV-N8 model audio adapter cable it is one. The other 4 audio inputs are already available as RCA connectors on the back.

To connect the audio output cable is supplied minijack / RCA white / yellow

- Connect the mini-jack audio output on your DVR marked with the headphones (lower right in the figure) and any of the RCA connectors to the audio input of the monitor / TV.

Connections LAN / USB

The product comes complete with:

- RJ45 port for direct connection to network LAN 10 / 100Mbps
- 2 USB ports for connecting to external Hard Disk backup.

I / O Connections

The rear green terminal strip is used to connect the inputs and alarm outputs.

- The upper part, composed of 5 terminals serves for alarm inputs (from top to bottom: Input 1-2-3-4-

  G)
- The lower part, consisting of 8 terminals, serves to connect the 4 alarm outputs (top to bottom: 1-2-3-4 output - 2 terminals for

  every Exit). The operation of the relay (NO / NC) is set by programming the VCR menu.

Supply

Connect the power cable to a 220V socket. For use abroad, the unit also accepts power supply 110V / 60Hz.

First Turn

- Do not turn on the unit before you connect the monitor Press the rear ON / OFF button on the monitor will show the message FORMATTING Wait until the formatting without
-
-
-

  interrupt you. There formatting can also employ several minutes depending on the capacity of Hard Disk inserted. On the monitor, the message INITIALIZING The recorder is brought to its rest position
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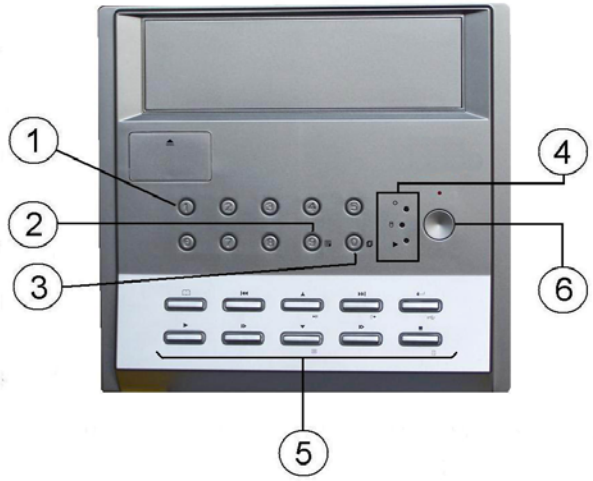
OPERATION AND CONTROL

front Panel

All the controls of the device are gathered in the front panel, which must therefore be easily accessible



1 - BUTTONS 1 TO 8: In multiple vision of 8/16 cameras, these buttons allow you to bring it to full screen the cameras 1 to 8. To bring it to full screen the cameras 9-16 (DV-N16 only) first press the button 9 (in the figure with the ref. 2) to switch to mutlivisione of sun 9-16 cameras. In programming mode, these buttons are used to enter the numbers 1 to 8.

2 - KEY 9: This button is pressed several times, it lets you change the screen layout: 16 Multivision cameras - cameras 1- Multivision 8 - Multivision cameras 9-16.

In programming mode this button is used to enter the number 9

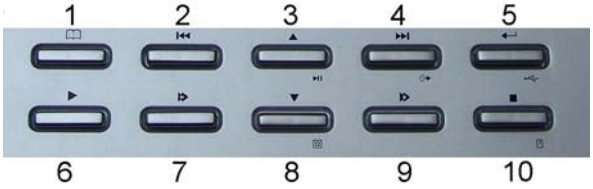
3 - 0 BUTTON: Enables automatic scanning of full-screen cameras according to the times and modes set in programming. In programming mode this button is used to enter the number 0.

4 - LIGHTS OF INDICATION: The three lights indicate, from top to bottom, video recorder switched on, current recording and playback in progress.

5 - CONTROL PANEL: See later
6 - REC BUTTON - Starts recording

CAUTION: recording can be stopped only by the programming menu not repressing the REC button. to press MENU / ADVANCED SETUP / STOP RECORDING

control panel



MENU

Enter and exit the programming menu and save the settings. During playback, enter the search by date.

When in PIP function, enters the PIP window menu

LEFT / REWIND

In programming when you are editing a menu item, pressing this button you move to the left

When playing back a movie of 160 frames each time you press When you set the PIP window, the moves left

ON / PAUSE

In programming, while browsing through the menus, the selection wraps up

During playback of a movie it is used to pause playback and then slowly advance one frame for each press.

RIGHT / ADVANCE / ALARM OUTPUT

In programming, while browsing through menus, move to the right selection or go to the next page when playing a movie goes on to 160 frames at each press.

During normal recording by pressing this button displays the status of the alarm outputs and allows manual control. Also it is used to stop any alarm sound signal. When you set the PIP window moves right

SELECTION / BACKUP

In programming this key is used to confirm an option, similar to the ENTER key on a computer. In normal recording condition, the button allows you to access the backup feature

that allows you to transfer video files to external hard drive via USB.

PLAY

Enable playback of recorded movies.
In case of in progress, this button allows you to switch between image and reproduced in real time images with recording playback.

- SUBTRACT / NEXT / SLOW MOTION

In programming, while the numbers, or letters setting, this button moves back to 1 or move to the next selection.

In reproduction allows the advancement in slow motion (slow motion) to 1/2, 1/4, 1/6, 1/8 of the normal speed depending on the number of times it is pressed.

June '/ PIP

In programming moves the selection down. If they are simultaneously active registration is playback, this activates the PIP (picture in picture) button that allows the simultaneous display of two states.

The PIP is active only VGA video output and not on the analog output monitors.

+ ADD / LAST / FAST FORWARD

In programming, during the range of numbers, or letters setting, this button moves forward 1 or switches to the last selection.

In playback allows fast forward at 2, 4,
6, 8 times the normal speed depending on the number of times it is pressed.

CLEAR / STOP / ALARM MEMORY

In programming mode the button is used to exit without saving by programming (CANCEL). In Playback is used to stop playback. In normal recording is used to access the alarm history

CAUTION: This button is the stop button recording. The recording can be stopped only by the programming menu. Press MENU / ADVANCED SETUP / STOP RECORDING.

Mouse Control

The latest versions of firmware for DV-N8 / 16 allow the command with any USB mouse model. To install the mouse just turn off your DVR, connect the mouse to the front USB port and restart.

DI The mouse pointer will appear on the screen and with it you can select the cameras and bring them to full screen by double click. By pressing the right mouse button will appear on the screen a control panel

Virtual through which it is possible to program the DVR settings without using the dell'apparecchi front panel.

If your DVN does not detect the presence of the mouse need to update the firmware (see below).

THE REGISTRATION

When you turn on the system, this will require about a minute to load.

Only when first starting time will be longer as they will also need to format the hard drive. At the end of Boot the screen will appear divided into 16 panels and will appear the images of the connected cameras. If assento cameras will appear in the message box VIDEO LOST.

Status displays

In the bottom right of the screen shows the time, date
and, if there is installed a hard disk, the total space (TTL) and available (FREE). If you have not installed any hard will show the message NO DISK.

Consider that the HDD capacity is calculated in Hexadecimal, not in decimal, for which 1000 will become
1024. It is therefore not fear if the indication of capacity is lower than the nominal Hard Disk.

In each panel, the following additional information is also available for each camera:

- **FIRST NAME:** The name which is assigned to the channel in the settings.
- **SELECTION:** If you see the symbol "V" at the bottom left it means that the channel is selected. If the camera audio features you can listen from the audio output. You can not listen all the inputs audio simultaneously, but only one of the selected channel. To select a camera by pressing the appropriate button (1-8). To select cameras 9-16 first press 9 to switch to multi-image of only 9-16 cameras.
- **RECORD:** When is the registration symbol (a red filled circle) it means that the VCR is recording the channel.
- **AUDIO:** If there is a speaker icon means that audio recording is active.
- **ALARM:** If there is the bell symbol means that the channel was an intrusion alarm generated. When an alarm is generated, the system will automatically save in ALARMS MEMORY then be able to be controlled by the user.

Start recording

When you start the system it will operate according to the set settings. If AUTO is set to RECORD

OFF the system will not begin capturing immediately, but will be the user to start recording. If it is set to ON it will start recording as soon as it is turned on.

The factory setting is OFF the AUTO RECORD so to start recording after the first start you must press the front button REC. It turns on red front light next to the REC button and will appear on screen the red dot indicating the current recording.

Stop recording

The recording can be stopped only by the programming menu and not pressing the REC button. Press MENU / ADVANCED SETUP / STOP RECORDING.

REPRODUCTION

Triplex Function

This system has an advanced multi-tasking capabilities and is able to reproduce images without stop recording. It 'also able to allow remote access without interrupting the recording (TRIPLEX).

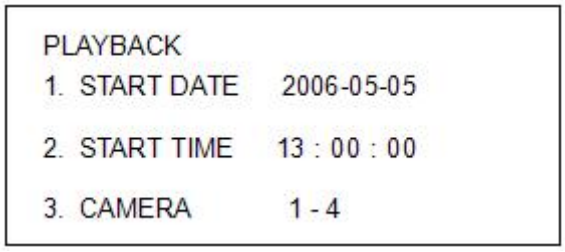
Breeding takes place in groups of 4 channels at a time. To access the playback mode, press the button

.

Playback by date / time

In the playback menu, you can enter:

- Start Date reproduction (START DATE) Start time playback (START TIME)
- cameras to be played (1-4,5-8,9-12,13-16)
-



The values will change with the CONTROL BUTTONS whose operation has already been explained above. After selecting the required option, press the PLAY button to start playback. If the date / time data set were not present recordings will show the message: NO FILES.

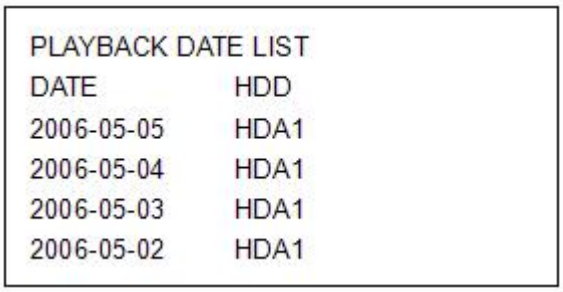
Playing for files

In the playback menu, you can press the MENU button

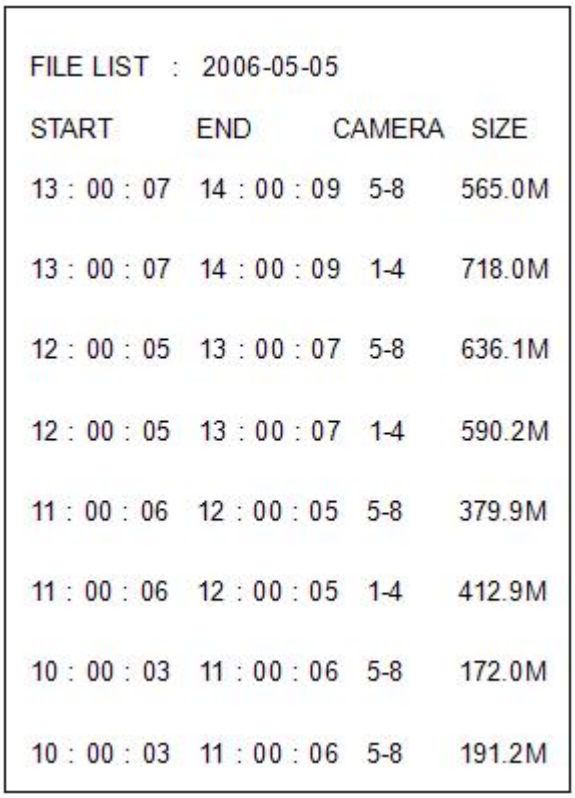
and access the list of saved files

Hard Disk.

Initially, it is shown a list of days of which a record.



Select the day and press ENTER to access the file list of the day



Choose file and press PLAY to start playback.

Status displays

While playing you will see a vision quad of four selected cameras. Obviously it will be possible to bring a camera in full screen with the front keypad.

In each frame, for each camera, the following information is available:

- **FIRST NAME:** During playback, the channel name will be displayed on the top left of each channel.
- **SELECTION:** If you see the symbol "V" at the bottom left it means that the channel is selected. If the camera has audio you can hear from the audio output. To select a camera must to press the button corresponding (1-8)
- **PLAY:**
  If you see the play symbol in the box for a channel it means that the reproduced images are recorded.
- **TIME / DATE:** While playing appears at the bottom right, in each channel, time and date of recording.
- **PAUSE:**
  If there is a pause symbol in the box for a channel it means that the channel playback is paused.

Playback controls

During movie playback you can act on the face buttons. The following commands are available:

- : At each pressure the film rewind 160 frames
- : Each press will advance the movie of 160 frames
- \- Each press will decrease the playback speed by half (1, 1/2, 1/4, 1/8)
- \+ Each press will increase the playback speed of the double (1, 2, 4, 8)
- / He pauses playback. At each pressure the movie will advance by one frame at a time
- Stop playing the movie and returns to normal recording condition

PIP (Picture in Picture)

This feature is supported only from the VGA output and does not work on analog video. When the system records is reproduces at the same time the user can use the Record and Play buttons to switch between recording and playback. If the user needs to view both images may use PIP. To use it you must activate it from the SYSTEM SETUP. Once this function is activated by pressing the key during recording, we will get 2 windows one inside the other; in the main will be visible in the picture recording, while in the PIP window will be visible images recorded. A further keypress the images being played and recording will reverse, allowing them to decide which images seen in the larger window. The PIP window appear by default in the center of the screen. Pressing the MENU key and using the arrow keys, you can position it at will on the screen. Once you have found the best location to save it by pressing the ENTER button or the STOP button to leave.

by alarms Memory Playback

There are 3 cases where the DV-N VCR can generate an alarm when the motion detection detects the movement, when an input signal in the I / O card is activated and finally when the video signal of an input fails (VIDEO LOST). All alarm events are stored in the alarm memory divided by day, with the following information:

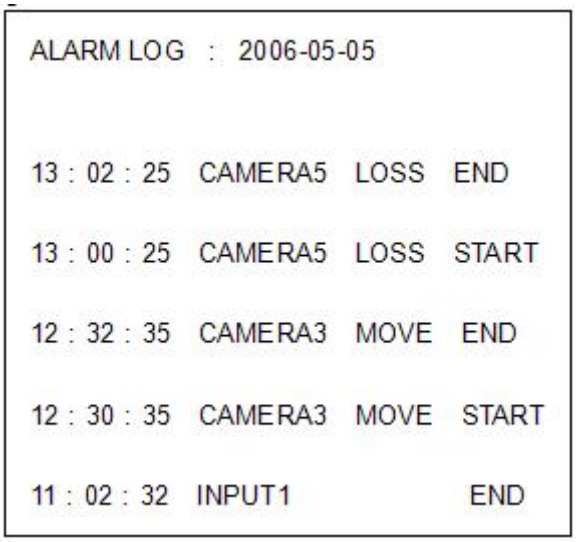
- now alarm name alarmed camera LOSS whether it is for video failure alarm MOVE if
- it is generated by the motion detection alarm (motion detection) INPUT if it is
- generated from external input alarm
-
-

To access the alarm memory, press the STOP button .

The first window will display the list of days that have alarms.

ALARM LOG DATE LIST	
DATE	HDD
2006-05-05	HDA1
2006-05-04	HDA1
2006-05-03	HDA1
2006-05-02	HDA1
2006-05-01	HDA1
2006-04-30	HDA1
2006-04-29	HDA1

Select the day and press Enter to access the complete list of the day's events.



For the alarms generated by intrusion, to which is coupled a recording is possible, on the alert desired positioning and pressing enter, view the movie directly.

SYSTEM SETTINGS

Access MENU Settings

To access environment of programming the VCR button is pressed

.

The top of the window numbers indicate the version of the firmware.

Menu items are selected and changed using the CONTROL BUTTONS whose operation has already been explained above.

Exiting the MENU settings

To leave the settings menu without saving your changes, press STOP

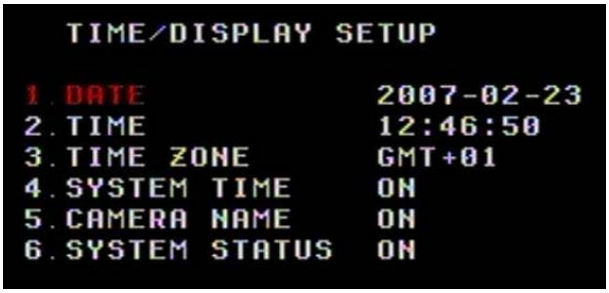
.

To exit the setup menu and save the changes press the MENU button

.

Time display (Time / Date)

The menu is used to set current date and time. It 'important to set the correct date to be able to properly handle the search functions.



- **AT YOUR PLACE:** Date of system. Use the arrows left / right to move to year, month, or day, and edit them with + and -
- **TIME:** As above to set the system time, in Italy: GMT + 1
- **TIME ZONE:** Use + and - to select the your time zone
- **SYSTEM TIME:** When enabled (ON) displays on the system time monitor
- **CAMERA NAME:** If enabled on the monitor as the camera name. The name of each camera can be set in "Camera Setup menu"
- **SYSTEM STATUS:** If you enabled on the monitor total space and remaining hard disk installed
- **MAIN SUB DISPLAY:** Enabling this feature in the vision of a camera in full screen will also be displayed in the form of miniature all other cameras
- **NTP CLOCK / SERVER:** The DVN video recorders allow you to constantly maintain the exact date and time via the Internet by connecting to a NTP (Network Time Protocol). Enter the name of the NTP server in the NTP SERVER box, then make the connection setting NTP CLOCK: ON. After saving the settings, the option to NTP CLOCK will appear alongside the connection result (FAIL / SUCCESS)

NOTE: To set date / time you need to stop recording.

Camera setup (camera)

The menu contains the settings of the video inputs. Each input has custom settings. To switch from setting an input to another, use the keys

or . The camera name

It will appear at the top of the screen.

- **CAMERA NAME:** Set the camera name
- **ENABLE:** If no camera is connected to the channel you is setting, it is advisable turn it off to prevent the recording of that channel and save valuable space on Hard Disk
- **AUDIO:** If activated records audio along with the video. Failure to connect the audio input you want to disable this option which occupies about 10 MB per hour of recording camera.
- **DISPLAY:** E 'can disable this item if you want the camera, despite being normally recorded is not shown in real-time visualization.
- **BRIGHTNESS:** Sets the brightness of the channel. It has a range from 0 to 255.
- **CONTRAST:** Sets the contrast of the channel. It has a range from 0 to 255
- **Saturation:** Sets the saturation of the channel. It has a range from 0 to 255
- **HUE:** Sets the color tone. It has a range from 0 to 255
- **VIDEO CONFIGURATION DEFAULT:** For restore the default settings of the channel, press

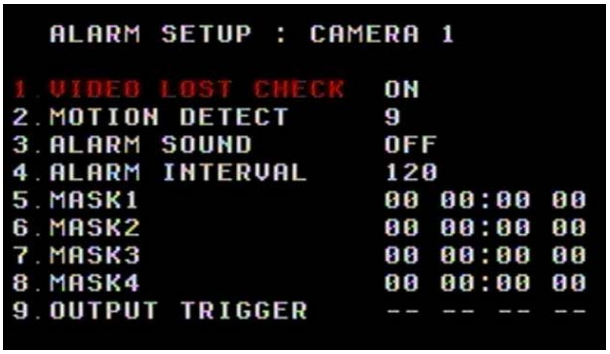
To switch from the next input setting, use the buttons or . The camera name It will appear at the top of the screen. After saving with .

Alarm setup (alarms)

The video recorder is able to handle 3 types of alarms:

- **Motion detection:** alarms generated by editing the image
- **External inputs:** alarms generated by the activation of the external alarm inputs
- **Lack video:** alarms generated by cutting wires and no video signal.

All settings can be made for each individual channel. Each camera will thus her configuration. To switch from setting an input to another, use the keys or



- **LOST VIDEO CHECK:** If activated, it enables the alarm if you unplugged the video cables connecting the camera to the VCR.
- **MOTION DETECT:** Activate the Motion Detection, or the registration in case of variation of the image (intrusion); the parameter varies from OFF, that is disabled, to 16. The higher the value is high, the more the detection is sensitive to image variations.
- **SOUND ALARM:** You can set the sound reproduced from the audio output on alarm. There are 4 different sounds. The default value is set to OFF.
- **ALARM INTERVAL:** Set the alarm duration, and then recording in response to an intrusion alarm. It can range from 100 to 999 seconds. The default value is set to 120. Consider that the total actually recorded time will also include a period of early warning antecedent of 3-5 seconds.
- **MASK 1-4:** Yes These sensitive areas (Masks) for the purpose of motion detection. You can set 4 masks for each room. The only controls motion detection pixel variations within set of masks. Each mask can be set in terms of size and position by simply varying the coordinating that mark every mask. By default, all 4 masks have parameters to 0, ie are absent. If you do not set the motion detection no mask, even if activated, will not work.

In the masks Management the software PAL device divides an image into 22x18 squares. (22x15 NTSC). The coordinated and 00:00 indicates the square in the upper left, while the coordinate 22:18 indicates the square in the lower right. In setting the mask the first two numbers are the coordinates of the square at the top

to the left of the mask and the second two numbers of the square coordinates of the lower right. The choice of coordinates is facilitated by the appearance of a green square in the image allowing you to have a clear idea of what area you are setting. exemplary image we can

to see set 2 masks, marked by green rectangles.

- **TRIGGER OUTPUT:** When the alarm is activated for motion detection you can be associated with the activation of one or more alarm outputs for the entire period of duration of alarm. I'm obviously settable 4 4 the positions being available in the terminal alarm relay.

System Setup (System)

In this menu are enclosed in the general settings of the VCR.

- **VIDEO MODE:** It can be selected either NTSC or PAL. You have to set it in accordance with the camera. In Italy it is set to PAL. You can not change during recording.

- **RECORD SPEED:** Tax the speed of acquisition frames / sec. It can be set up to do 30 frames / s mode NTSC, and up to 25 frames / s in PAL mode. Normally you leave this value (real-time) unless you want to reduce the number of f / sec to save space on the hard disk, if you require long periods of registration uninterrupted.
- **VIDEO QUALITY:** It ranges from 1 to 10 and affects the level of compression. Setting it to 10 you will have the best video quality, but more disk space occupied.

- **SCAN TYPE:** It can be set to Full Display, Quad Display Display or Nine. Full choosing, to the SCAN button, you will have a scan in full screen of each channel. In Quad mode, the system will make a scan with the screen divided into 4 parts between the camera 1-4,5-8,9-12,13-16. Finally, choosing Nine Display, you will have a scan with two screens from 9 quadrants containing 8 cameras each. Remember, as already seen, that to start the scan, press the 0 key.

- **SCAN INTERVAL:** Set the frequency of the automatic scanning scan from 1 to 99 seconds. By default it is set to 3 seconds.

- **AUTO RECORD:** When set to ON the unit starts there registration automatically after starting. If you set to OFF you to start there Registration must press the REC button on front panel.
- **LIVE AUDIO:** Allows playback of the audio signal in real time during there display of cameras. It is played through the audio output only the selected camera channel.

- **ALARM RECORD:** Enabling this feature all'attivarsi of an alarm, the system will start recording even if it is not in recording status.

- **VGA-PIP:** Enable PIP VGA video output.

Network setup (TCP / IP)

In this menu you set the network parameters TCP / IP to be used for remote connection with D-Vision software.

E 'can set network parameters and max. 4 remote users with level of programmable access. Once in the Network setup menu by pressing the buttons or , you can browse the entire **submenu:**

- **DNS Server Setup**
- **Connection Setup DDNS**
- **setup 1-4 Remote User**
- **Network Info**
-
-

CAUTION: In order to change the network parameters it is necessary to verify that the SERVER CONNECT command, which initiates the connection to the D-Vision server, is set to OFF.

Tips on setting network parameters in the different employment realities are present later in the manual.

SERVER SETUP

Here yes Set Network parameters for the D-Vision Server program that rule will be running on a single PC on the network. E 'need to connect to the D-Vision Server for the machine to be accessible from other PC on the network, also connected to the server program.

NETWORK SETUP :	SERVER SETUP
1.HOST NAME	----------
2.CONNECT SERVER	ON
3.SERVER	192.168.16.127

4.SERVER PORT	40000
5.DISCONNECT ALM	-- -- -- --

- **HOST NAME:** The name identifies the VCR in remote connections
- **CONNECT SERVER:** When set to ON, the system will connect to the server using the settings. And 'you need to set it to OFF in order to change the network parameters and then turn it ON when all is ready for

there

connection. The connection is to establish

moment output from the environment of

programming with the MENU button.
- **SERVER:** Set the IP address of the PC where is the D-Vision Server program to connect to. There is usually only one D-Vision Server to which you connect all the D-Vision systems (DVR or PC card) to be able to talk to each other. Instead of the absolute you can also enter a domain name, useful if, not having a fixed IP you should use a DDNS service (see below settings)
- **SERVER PORT:** IS' the port used for the connection. It 'not recommended to change the default value: 40000, otherwise it will be necessary to make a change also similar to D-Vision D-Vision Server and the client.
- **DISCONNECT ALM:** E 'can activate one or more relay outputs (4 available) to be activated if the server can not be reached.

CONNECTION

This is the default way in which the DVR via the network interface Ethernet port rear. Typically the DVR will connect directly to a LAN, and possibly through it to the Internet. The device, however, also supports

there

direct connection to a WAN, and even the Direct connection to the Internet with PPPoE ADSL modem without going through a PC. Depending on the network situation in which you find yourself will be called to enter different data.

NETWORK SETUP :	CONNECTION
1.LISTEN PORT	50000 50000
2.MODE	LAN
3.GET IP	AUTO GET IP

- **LISTEN PORT:** And 'the listening port of the DVR in the network connections. The first number represents the listening LAN port, the second port WAN listening. The default value is 50000, and you should not change it then also having to change the parameter in the D-Vision software. It is generally important to the first issue, namely listening LAN port, which always keeps on 50000 and is the standard communication port used by the DVR to be achieved by D-Vision software. We must change the second number, that is, the WAN port, only if there are multiple DV-N in the same LAN that must be able to be monitored from the outside via the Internet by going through a router. It is a situation of a certain complexity that requires a refined setting in the router.

Consider an example with 3 DV-N places on the same LAN and connected to the internet through the LAN router. A correct configuration would be:

DV-N1 IP 192.168.2.20; Port: LAN WAN 50000 50001
DV-N2 IP 192.168.2.21; Port: LAN WAN 50000 50002
DV-N3 IP 192.168.2.22; Port: LAN WAN 50000 50003

The doors of router (Ex. IP internet 211.175.21.43 must be mapped as follows

192.168.2.20:50000 <--------> 211.175.21.43:50001
192.168.2.21:50000 <--------> 211.175.21.43:50002
192.168.2.22:50000 <--------> 211.175.21.43:50003

Remotely, with the D-Vision software, or with Internet Explorer, you will always call address

211.175.21.43 router but using port 50001

to connect the DV-N1, N2-50002 for DV and DV-50003 for the N3.

- **MODE:** The DV-N video recorder is able to handle 3 types of network connection: LAN, WAN and DIAL-UP (PPPoE). Depending on this option you will have several options in the following lines.

- **MODE = LAN** If the DVR is connected to a LAN must use this option. In option **GET IP** you can choose to set the unit's network parameters manually (MANUAL) or make sure that you automatically obtain an IP address from the network DHCP server (if esitente). By choosing manual setting must

to introduce the IP address of the DVR, SUBNET MASK and GATEWAY.

NETWORK SETUP :	CONNECTION
1.LISTEN PORT	50000 50000
2.MODE	LAN
3.GET IP	MANUAL SETUP IP
4.LOCAL IP	000.000.000.000
5.NET MASK	000.000.000.000
6.GATEWAY	000.000.000.000

By choosing the automatic IP AUTOGET setting, it will be the network's DHCP server to automatically assign them.

NETWORK SETUP :	CONNECTION
1.LISTEN PORT	50000 50000
2.MODE	LAN
3.GET IP	AUTO GET IP

- **MODE = WAN** Self the DVR is connected directly to a WAN network with a fixed IP address, select this option and enter the IP address, SUBNET MASK and GATEWAY from the provider.

NETWORK SETUP :	CONNECTION
1.LISTEN PORT	50000 50000
2.MODE	WAN
3.LOCAL IP	000.000.000.000
4.NET MASK	000.000.000.000
5.GATEWAY	000.000.000.000

- **MODE = DIAL UP** E 'can connect the DVR directly to a PPPoE ADSL modem to connect to the Internet directly without the use of a network or other PC. In this case it is required the insertion of the connection parameters to be used:

USERNAME, PASSWORD, AutoConnect (automatic connection from any restart).

NETWORK SETUP :	CONNECTION
1.LISTEN PORT	50000 50000
2.MODE	DIAL-UP
3.USERNAME	----------
4.PASSWORD	----------
5.AUTO CONNECT	OFF

When entering the password, you can only enter capital letters. Having to enter a **lowercase letter put a + before the letter. For example password Avon become + AVO + N**

DNS SETUP

This section allows you to set the DNS parameters automatically (AUTO GET IP) or manual. Typically the DNS is assigned automatically (AUTO GET IP) when the D-Vision server resides on the same LAN.

NETWORK SETUP :	DNS SETUP
1.GET IP	AUTO GET IP

If you select the manual option must set the primary DNS and secondary parameters as instructed by the provider.

NETWORK SETUP :	DNS SETUP
1.GET IP	MANUAL SETUP IP
2.PRIMARY IP	000.000.000.000
3.SECONDARY IP	000.000.000.000

DDNS SETUP

This section allows you to configure the parameters of a possible DDNS service. DDNS stands for Dynamic Domain Name Service, and it is a service offered by different sites web, for can trace back a device on the Internet even if it does not have a fixed IP address. Having a fixed IP address on the Internet is certainly convenient, but not always possible and sometimes expensive. To this it can be convenient to sign a DDNS service that works very simply. In signing the service you will register the device in a database that will contain its data connection to the internet. Periodically, the devices will send its IP address to the DDNS server to update the database. In this way, even if your ISP has changed the IP address, the database contained in the DDNS server will still be updated. To connect to the remote PC, the user would type in an address that Internet Explorer will contain the name chosen for the machine and also the name of the DDNS service (eg. Http: //nomeapparecchio.ddns.

, as instructed by the service provider.

The DDNS server will consult its database for the IP address that the required equipment has at that time and establish the connection. The DV-N video recorders 4 supports DDNS service provider:

- dyndns.org
- no-ip.com
- freedns.afraid.org
- zoneedit.com

In DDNS window you enter the paremetri required to access the service:

- **ENABLE:** ON / OFF the option of saving the DSV-N ON automatically go to service

according to the set parameters.

- **DOMAIN NAME:** Domain name provided by the DDNS provider
- **USER NAME:** Username provided by DDNS provider
- **PASSWORD:** Password provided by DDNS provider
- **DDNS SERVER:** Choose the service used among those available

USERS (users)

These four pages (USER 1,2,3,4) allow you to set 4 different remote users with different levels of access to the system.

NETWORK SETUP :	REMOTE USER1			
1.USER NAME	AAAA---------			
2.PASSWORD	AAAA---------			
3.SETUP	ON			
4.DOWNLOAD	ON			
5.OUTPUT	OFF			
6.CAMERA1-4	ON	ON	ON	ON
7.CAMERA5-8	ON	ON	ON	ON
8.CAMERA9-12	ON	ON	ON	ON
9.CAMERA13-16	ON	ON	ON	ON

- **USER NAME:** user Name
- **PASSWORD:** user Password
- **SET UP:** Allow the user to change the DVR configuration
- **DOWNLOAD:** Allow the user to download files from the database
- **OUTPUT:** authorize the user to activate Manually relay outputs remotely
- **CAMERA 1-4 ... 13-16:** Allow the user to view the different cameras 1..8 or 1 ... 16.

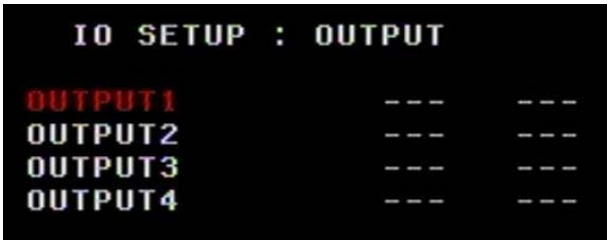
ABOUT NETWORK (network information)

This page allows you to view the current network parameters of the DVR (IP address, DNS servers and MAC number). If you have set the DDNS function will find below the list status of the service.

I / O setup (Input / Output)

In this section of the programming menu you set the parameters related to the inputs and to the rear of alarm outputs.

Once in the menu I / O setup by pressing the keys or , you can set individual 4 inputs and 4 outputs.



OUTPUT (Output)

For each output can be set 2 ON / OFF parameters and activation time

- **ON / OFF / -:** ON means that the output relay is normally open and will close on alarm, OFF the exact opposite, and finally - is about to inactive output.
- **Activation time -** The output will persist in the state of alarm for the indicated time (0..999 sec.)
- **SMART -** The VCR has the SMART (Smart Monitoring System, Analysis and Reporting Technology) for continuous monitoring of the status of the Hard Disk. Here you can activate an exit in cases of irregularity.

INPUT (Inputs)

For each Input can be set set different options

IO SETUP : INPUT1	
1. TRIGGER TYPE	---
2. ALARM SOUND	---
3. OUTPUT1	---
4. OUTPUT2	---
5. OUTPUT3	---
6. OUTPUT4	---

- **TRIGGER TYPE:** NO or NC are for Normally Open and Normally Closed.

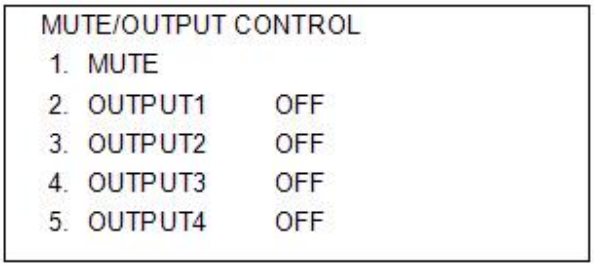
Selecting --- we exclude the entrance because unused

- **SOUND ALARM:** You can set the sound reproduced from the audio output in case of alarm generated from the entrance. There are 4 different sounds. The default value is set to OFF.

- **OUTPUT 1..4:** IS' possible activate automatically output (second her programming) at the moment when the input is activated

MANUAL CONTROL OUTPUT

At every moment it is possible to vary the state of the outputs arbitrarily by pressing the button



With the first MUTE option it is possible to acknowledge a possible audible alarm generated by an alarm condition.

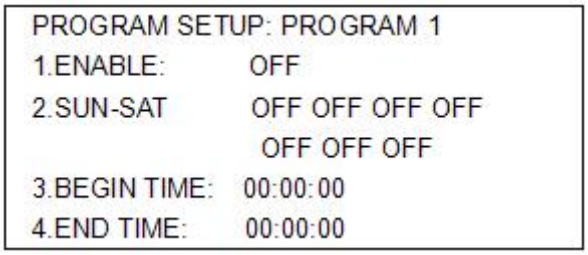
With 2..5 options you can change the output status at will.

Program (Prog. Hourly)

In this section of the programming menu is set any time zones in which you want to perform recording.

You use this function if you want to allow the VCR to record only during certain times of the day.

There are 4 programmable time zones that can be active every day or only certain days of the week.



Once in the menu I / O setup by pressing the keys or , you can set individual 4 timers

- **ENABLE:** Enable / Disable the programmer

- **SUN-SAT:** Enable / Disable the different days of the week, from Sunday (first position) to Saturday (last position)

- **BEGIN TIME:** Recording start time
- **END TIME:** End Time Recording

Advanced Setup (Advanced Features)

This section contains the programming options typically reserved for the system administrator.

- **STOP RECORD:** Once you start recording, you can not interrupt it with any key on the front panel. The only way is to select STOP RECORD and press

This function is necessary to prevent the arrest of registration by unauthorized personnel.

- **LOGOUT:** The system allows you to enter a password system to prevent setting changes by unauthorized persons (see PASSWORD below). Select LOGOUT is used to exit the programming. To log back must be typed the correct password.

- **LOGOUT AND RECORD:** if the "Auto Record" function is not enabled, when you make log out, you can not start recording even if you press the REC button. E 'need to use LOGOUT AND RECORD to go out and start recording.

- **PASSWORD:** You may set up a personal password avoid any operation by an unauthorized person. We need to be logout (see above) after entering the password to make it valid.

- **UPDATE FIRMWARE:** THE video recorder
  It allows the firmware update. This operation is to be performed only at
  indication of our technical service. You must use a USB stick and create within it a folder named Firmware. Copy the update files in this folder and insert the key into the front USB port. Start the update by using this function menu to perform the firmware update.

  The system will reboot automatically after the update.
- **LOAD DEFAULT:** By selecting this item the system will restore to factory settings. It may be useful in case the user, committing some error in the configuration, cause an abnormal operation of the system.

- **SCAN HDD;** This feature allows you to run the SCAN DISK hard disks and correct any errors.

- **FORMAT HDD:** After inserting the hard disk for the first time in the VCR, the system will detect it and automatically format. In the case of

  the user has the need to format again the hard disk, you may do so by executing this command. In the symbols used the Hard Disk are indicated with the abbreviations HDDA1 type, etc. HDDB2 HDD obviously stands for Hard Disk, the following letter stands for: A = Master, B = Slave, while the last number indicates the possible partition of the disk (1 st, 2 nd etc). Recall that in the case of HDD larger than 250 GB, the system performs an automatic partitioning of max partitions. 250 Gb each.

- **DVD FORMAT:** For format DVD burner that you have entered into (if any).

BACK UP VIDEO FILES

The video recorder allows quick copying of movies stored remotely from any PC connection. It 'also a practical local backup function that allows you to export to external media movies of interest.

DVD burner

The best support to save the film is Integrated DVD burner that can be ordered optionally with the appliance. Once you select the period to save the DV-N will automatically burn

the DVD that you will inserted in burner.

USB Peripherals

If in the DV-N is not the integrated burner was mounted it is possible to use for the backup of USB devices connected to one of the three USB ports (one front and two rear). You can connect a USB stick or an external USB Hard Disk. Before connecting the unit to a DV-N is recommended to format the same with FAT32 File System via a PC otherwise it is possible that the VCR can not detect it and return a message NO SPACE. Also make sure that the unit is connected to only one partition. If the USB output are connected USB Hard Disk must take care to feed them externally as the DVR is not able to feed them via the USB port.

NOTE 1 - The filing of external USB devices is not possible if the internal DVD recorder is installed. NOTE 2 - The immense number of USB sticks on the market prevents compatibility with each model.

Backing

Press 

It shows the list of days that contain recordings:

FILE BACKUP DATE LIST

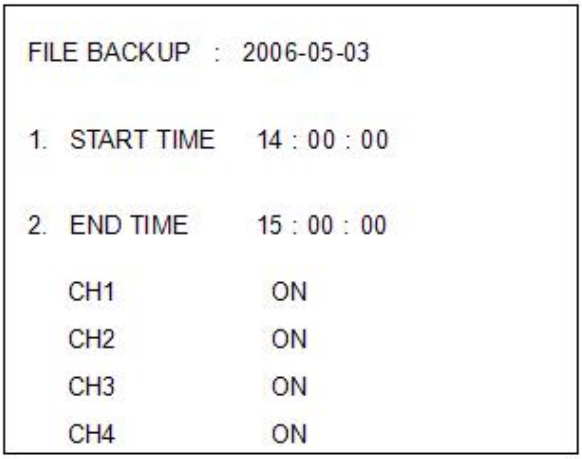
DATE	HDD
2006-05-05	HDA1
2006-05-04	HDA1
2006-05-03	HDA1
2006-05-02	HDA1
2006-05-02	HDA1

By selecting a day is a list of files recorded during the day. Check carefully the file size in MB (LENGTH) which must of course be consistent with USB support capabilities being sent via DVR .:

FILE LIST : 2006-05-03

START	END	CAMERA	LENGTH
14:00:00	15:00:00	1-4	660.0M
14:00:00	15:00:00	5-8	662.3M
13:00:00	14:00:00	1-4	680.4M
13:00:00	14:00:00	5-8	560.0M
12:00:00	13:00:00	1-4	702.3M
12:00:00	13:00:00	5-8	720.4M

By selecting the file of interest shows the detail of the recording with the start and stop recording times.



If necessary, you can select a period of time less than the total duration of the file. It must now take the camera of interest and press ENTER to start the backup. If the DVR is installed DVD burner backup is automatically performed on the DVD-R that you will appropriately

to insert. Wait for the completion of the burning which may also take a long time depending on the file size. If you have not installed the recorder VCR automatically search for the device attached to the USB ports and back up on it. Wait until the backup before disconnecting the external USB drive.

Playing backup movies

The files will be copied easily reviewable on any PC via the DV-Player program you install together with the D-Vision software.
The DV-Player is a handy player that works as a simple executable without requiring installation and can therefore be copied to disk and easily distributed to anyone who needs to play back movies.

If necessary, the DV-Player program also contains a comfortable export function into AVI, but obviously multiplies enormously the file size.

REMOTE ACCESS WITH D-VISION

The DV-N video recorder is not just a device to record video in digital format. It 'also a powerful VIDEO SERVER allows you to send pictures of the cameras via LAN or the Internet without the use of IP cameras, analog cameras but normal.

The D-Vision software

For remote connection you are using the D-Vision software, included on the CD that lets you communicate with both the DV-N video recorders D-Vision with that embedded systems for video cards for PCs D-Vision.

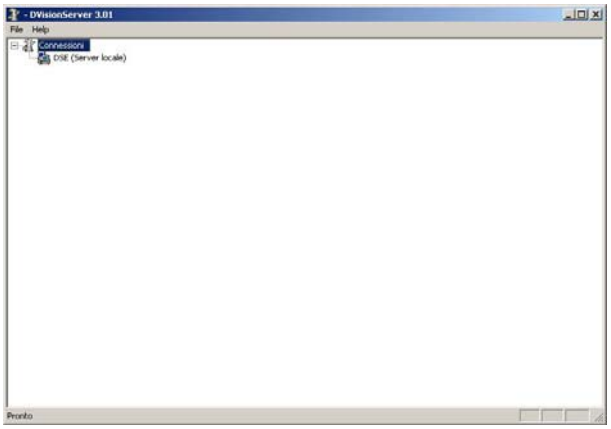
CAUTION. To manage remote access
DV-N video recorders is required 5.1 version of D-Vision software (or higher).

The D-Vision Server software

Communication between the various D-Vision systems (D-Vision software, PC cards and DVR D-Vision D-Vision embedded) is managed by a program called D-Vision Server that

installs automatically

D-Vision with the client software.



And 'necessary to determine in advance which of the network PC you will want to launch the D-Vision server. Typically there is only one D-Vision Server to which all client programs are connected and DV-N video recorders. E 'recommended that the PC that hosts the program has a fixed IP address and not variable.

The settings SERVER DV-N SETUP

The settings in the SERVER SETUP DV-N (see above) are different depending on the location of the PC hosting the D-Vision Server.

NETWORK SETUP :	SERVER SETUP
1.HOST NAME	----------
2.CONNECT SERVER	ON
3.SERVER	192.168.16.127

4.SERVER PORT	40000
5.DISCONNECT ALM	-- -- -- --

- **The PC hosting the video server is on the same LAN (** es. IP 192.168.0.3): In the DV-N SERVER SETUP enter the 192.168.0.3 network address
- **The PC hosting the video server is connected directly to the internet (** es. IP 211.172.12.34): SERVER SETUP In the DV-N to enter the Internet address 211.172.12.34

- **The PC hosting the video server is connected to the internet through its local network and a router**
  (Eg. address internal server PC: 192.168.0.3 and the IP router IP address 211.172.12.34): SERVER SETUP In the DV-N enter the Internet address 211.172.12.34 then in the configuration menu of the router perform

  mapping of port used (default 40000) from the external network to the internal network so that the port traffic is directed from the outside to the PC where the router is installed as in the following example:

192.168.0.3:40000 <----> 211.172.12.34:40000
Consult the documentation router there programming.

Once properly set up the D-Vision Server address you CONNECT brings SERVER ON and you will see a video recorder icon added to the list of links in the D-Vision Server.

The DVR is ready to be accessed from any D-Vision software connected with the same Server program.

Using D-Vision D-Vision Server for Remote Access

The use of D-Vision software and settings necessary to carry with it the remote access are described in the manual of the software and are not present in this manual.

> > > SEE MANUAL D-VISION 5.1

REMOTE ACCESS WITH EXPLORER

The DV-N8 / 16 VCR supports remote connection via the Internet Explorer. Obviously this is a limited access to the single vision of the cameras in real time and which does not allow all the remote operations of the D-Vision software.

Prepare Internet Explorer

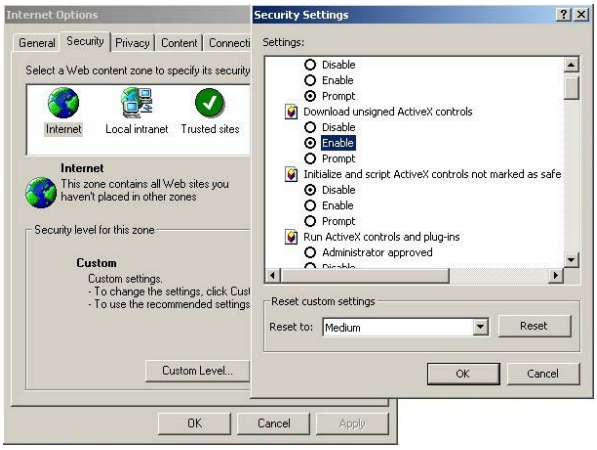
Due to the number of Internet Explorer protections you need to prepare thoroughly the security settings of the browser as shown below. This requires a careful attention, otherwise the DVR control will not work.

NOTE: The descriptions and back windows may vary slightly depending on the version of IE installed.

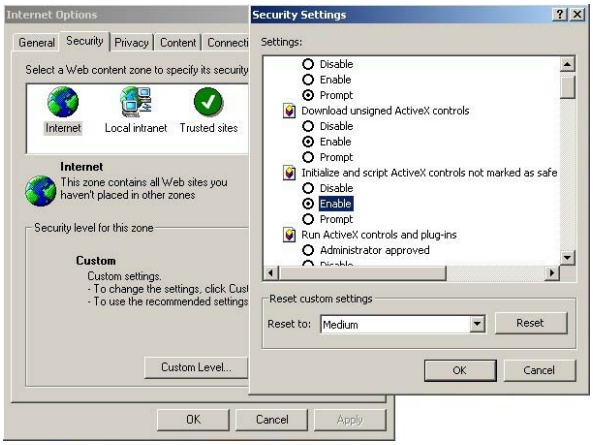
1 - PROTECTION AREA INTERNET

To open Internet Explorer is to press TOOLS / INTERNET OPTIONS, then select the PROTECTION folder and select the icon of the earth INTERNET. Then press CUSTOM LEVEL. Check the following settings

- **RUN CONTROLS ACTIVE-X** select ON or ASK CONFIRMATION

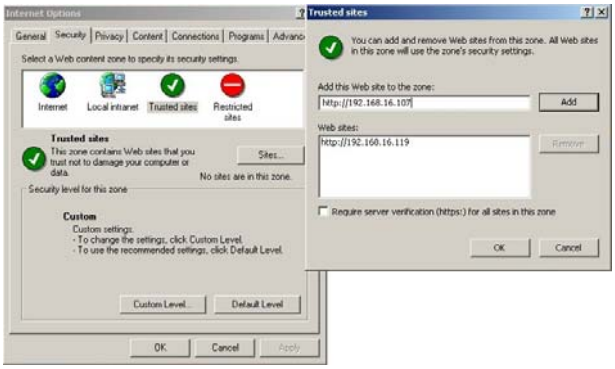


- **RUN CONTROLS ACTIVE-X NOT MARKED AS SAFE** select ON or ASK CONFIRMATION



2 - SETTING TRUSTED SITES

In itself folder TOOLS / OPTIONS INTERNET / select PROTECTION the icon SITES RELIABLE and click the button SITES



- To insert the address of the DV-N es. **http://192.168.0.6** Uncheck add and click on REQUEST CHECK SERVER Press
- CLOSE
-

Click CUSTOM LEVEL and take the same two settings related to the ACTIVE-X controls seen earlier.

* * * * NOTE TO EXPLORER 7 **** If Internet Explorer 7 has been set previously on the lower levels of protection inhibits the default access to certain web pages, including those of remote control of D-Vision DVR. This can lead to the appearance of a PAGE NOT FOUND error when you try to connect. To avoid this problem, before

make custom security settings listed above must restore DEFAULT PARAMETERS DEFAULT LEVEL Press before entering the custom level.

IE Web Decoder

To facilitate the connection with Internet Explorer has provided a utility called IE Web Decoder. By installing the program it will automatically install the ActiveX and the Explorer configuration so there is no need to manually set the settings of

security as shown above.

Prepare the DVR

If the server is properly connected to the network you are ready to connect. But first you must enter at least one remote user name and password.

See Manual SETTINGS / NETWORK / USERS. Do not forget to enable the user to view at least one camera.

Connection Explorer

Now that you have properly set the security parameters and inserted the user in programming the DVR you can try the first link. Open Internet Explorer and in the Address box, type in the IP address of the DV-N. If you use a DDNS service, you can type in the name linked to your DVN. For

know the address of the DV-N to see MENU / SETTINGS / NETWORK NETWORK ABOUT then move to the page (see chapter Settings). At connection you will be asked to enter the username and password that you entered in the DVR

Immediately after you choose which cameras display during connection.

During the first execution of the procedure you will be prompted to activate ActiveX controls. Answer yes even if Internet Explorer will ask for protection constant confirmation.

connection through with router port mapping

The connection explained above is relatively simple if you are connecting to a DVR that resides in the same LAN or directly connected to the Internet. In the case of a DVR connected to the Internet through a router, things get complicated because you have to go to the MAPPING OF PORTS ROUTER.

The port 50000, used by default by the DVR must be mapped from the outside towards the internal address assigned to the DVR.

Consult your router's manual for details on how to do this.

MAIN SPECIFICATIONS

FEATURE	DV-N8	DV-N16
Product type	Digital Video Recorder stand alone	Digital Video Recorder stand alone
video Inputs	8 (BNC connectors)	16 (BNC connectors)
audio Inputs	8 (RCA connectors)	16 (RCA connectors)
video Outputs	1 Analog / TV video (BNC) 1 VGA output for PC monitor (D-SUB) 1 Analog / TV video (BNC)	1 VGA output for PC monitor (D-SUB)
audio Outputs	1 minijack	1 minijack
Video Signal compatible	Composite video 1 Vpp 75 Ohm - PAL or NTSC	Composite video 1 Vpp 75 Ohm - PAL or NTSC
compatible audio signal	2 V pp 50 Ohm	2 V pp 50 Ohm
Resolution of the captured frames	704x576 (PAL) 640x480 (NTSC)	704x576 (PAL) 640x480 (NTSC)
Frames / second total in monitoring	200 f / sec in PAL - 240 f / sec in NTSC	400 f / sec in PAL - 480 f / sec in NTSC
Frames / second for monitoring channel	25 f / sec in PAL - 30 f / sec in NTSC	25 f / sec in PAL - 30 f / sec in NTSC
Frames / second total in registration	Max 100 Min 83 f / sec in PAL Max Min 120 100 f / sec in NTSC	Min Max 200 167 f / sec in PAL Min Max 240 200 f / sec in NTSC
Frames / second for recording channel (With all active recording channels)	Max Min 12.5 10.5 f / sec in PAL Max 15 Min 12.5 f / sec in NTSC	Max Min 12.5 10.5 f / sec in PAL Max 15 Min 12.5 f / sec in NTSC
computer Ports	10 / 100Mbps Ethernet (RJ45) - 3 USB	10 / 100Mbps Ethernet (RJ45) - 3 USB
Inputs / Alarm Outputs	4 inputs NO / NC + 4 relay outputs NO / NC Max. 7A 30VDC 250VAC	4 inputs NO / NC + 4 relay outputs NO / NC Max. 7A 30VDC 250VAC
Hard disk compatible	Max. 2 Hard Disk EIDE (PATA) or SATA drives without capacity limit and brand	Max. 2 Hard Disk EIDE (PATA) or SATA drives without capacity limit and brand
Hard disk supplied as standard	Nobody	Nobody
Formatting Hard Disk	Automatic - File system LINUX EXT3	Automatic - File system LINUX EXT3
Compression Algorithm	VGZ Owner	VGZ Owner
Hardware Compression	H.264 (MPEG4 Part10) + Audio 24 Kbps ADPCM	H.264 (MPEG4 Part10) + Audio 24 Kbps ADPCM
screen Division	Full screen Multivision at 4.8 frames, Cyclic scan.	Full screen Multivision at 4,8,16 boxes, Cyclic scan.
Recording Mode	Real Time, Time Lapse, Programmers weekly schedules, motion detection, external alarms	Real Time, Time Lapse, Programmers weekly schedules, motion detection, external alarms
Multi-tasking	TRIPLEX: Registration + Play + remote access possible simultaneously	TRIPLEX: Registration + Play + remote access possible simultaneously
remote access	Via LAN / WAN / INTERNET with D-Vision software or MS Explorer	Via LAN / WAN / INTERNET with D-Vision software or MS Explorer
Compatibility Remote Access	All D-Vision PC boards by D-Vision software.	All D-Vision PC boards by D-Vision software.

DDNS Support	Yes	Yes
Back up video files	With remote PC or Hard Disk / USB Flash Disk connected	With remote PC or Hard Disk / USB Flash Disk connected
Supply	110 / 230V 50/60 Hz. Consumption 2A 110 / 230V 50/60 Hz. Consumption 2A	
Operating temperature	+ 5 ... + 40 ° C	+ 5 ... + 40 ° C
dimensions	200 (L) x200 (H) x300 (P)	200 (L) x200 (H) x350 (P)
Weight	Approx. 4.5 kg (without HD)	Approx. 5 Kg (without HD)