

## Digital surveillance system

## Digi-Protect

## User Manual

Incl. new Functions (Version 6.20x)



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## Preface

Dear Customer,

Thank you for purchasing this Digi-Protect video surveillance card. You made the right decision in choosing this state-of-the-art technology, which complies with the current standards of domestic and European regulations. The CE has been proven and all related certifications are available from the manufacturer upon request. To maintain this status and to guarantee safe operation, it is your obligation to observe these installation instructions.

## Features

- Multi-channel recording in digital picture quality
- Variable memory capacity by recording video data on hard-disk
- Simple installation of hardware and software
- Wide-ranging recording, playback and search functions
- Control of pan/tilt cameras
- Simultaneous display of up to 16 channels
- Built-in motion sensor and surveillance of external sensors
- System access and control via network/Internet

## Precautions

### **To avoid fire and injury, please observe the following:**

- Use the product in dry conditions only.
- Make sure there is sufficient ventilation.
- Do not expose the device to temperatures less than -10°C or more than 50°C.
- The device is designed for indoor use only.
- The maximum humidity must not exceed 90% (non-condensing).
- Ensure that the voltage is disconnected when performing work on the device.

### **Please observe the following regulations to ensure trouble- free operation of your device.**

- The digital surveillance system is supplied with electricity by the internal power supply of the PC.
- The power supply unit must be capable of supplying both the system and the card.
- The card must be installed as a fixture in the system.

### **General:**

Improper or careless installation work may lead to faults and poor image quality. Therefore please read the instructions very carefully and follow the installation instructions for lines and components precisely.

**The manufacturer reserves the right to make technical modifications at any time.**

Scope of delivery

Recorder card



Software



Watchdog cable



Cables  
(not TV8802,TV8803,TV8805)



Operating instructions  
(on CD)



## Installing hardware and software

### System requirements

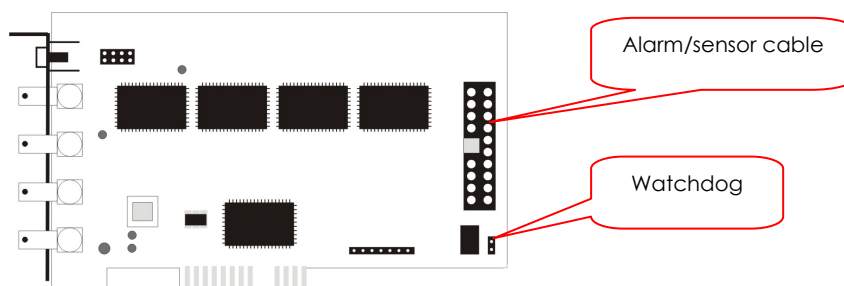
Operating system: Windows XP, 2000  
Hard disk: Min. 200 GB for accident prevention certification  
Mainboard: Mainboard with intel chipset 915... or 865G...

Number of drivers required and special hardware requirements:

Card Type	SW-Typ	Hardware requirements	Driver	Driver name
TV8800, TV8801, TV8802	DF1000 DF1000 DF900	Celeron, 1.0GHz, 256 MB RAM, 40 GB HDD	1 x Video 1 x Audio	NanoBT
TV8803, TV8804	DF1500	Celeron, 1.7GHz, 256 MB RAM, 120 GB HDD	2 x Video 2 x Audio	NanoBT
TV8805, TV8806, TV8807	DF2400	Celeron, 1.7GHz, 256 MB RAM, 120 GB HDD	4 x Video 4 x Audio	NanoBT
TV8809, TV8810	DF9000	Pentium 4, 2.4GHz, 256 MB DDR-RAM, 200 GB HDD	1 Driver	ALogics Ruby3
TV8811	DF9400	Pentium 4, 2.4GHz, 512 MB DDR-RAM, 200 GB HDD	1 Driver	ALogics Ruby3

### Installing the video card in the PC

1. Switch the PC off and pull the mains plug out. Open the PC and insert the DigiProtect card in a free PCI socket. You may have to remove the blank on the rear of the PC. Fix the card using the screws provided. Connect the watchdog cable correctly to the recorder card and the PC (PC reset switch).



2. Close the PC cabinet and switch on the PC. Windows starts hardware recognition and detects the newly fitted DigiProtect card.

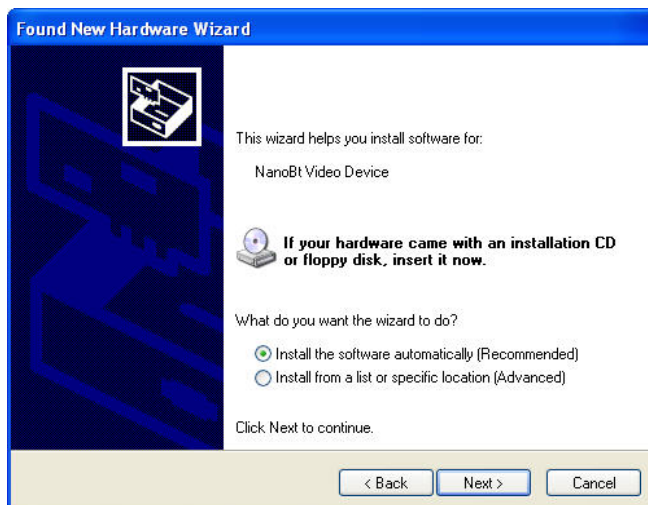
 **IMPORTANT:** Install the hardware and drivers before the software.

## Installation under Windows XP

After Windows XP starts, the following window may appear:



Now place the DigiProtect software CD in the CD drive and select “No, not this time” to install drivers from the CD.



The drivers are on the software CD under [CDROM]:\DigiProtect xxxx Server\DRIVERS (e.g.: E:\DigiProtect 900 Server\DRIVERS).

Follow the installation instructions on the screen. If the system cannot find the drivers automatically, make a link to the directory named above.

Note: Windows XP may display a message that the drivers are not signed. Select “Continue”. The DigiProtect card driver supports Windows XP.

All required drivers (see table on page 7) must be correctly installed.



Press [Finish] to complete driver installation.

#### Installation under Windows 2000

To install the recorder card under Windows 2000, first open the Control Panel under [Start / Settings / Control Panel]. Then open the Hardware Wizard under [System / Hardware / Hardware Wizard].

The drivers are on the software CD under [CDROM]:\DigiProtect xxxx Server\DRIVERS (e.g.: E:\DigiProtect 900 Server\DRIVERS).

The new hardware is now searched for. When installing the drivers, make a link to the above-named directory. Install all drivers and complete the installation correctly.

#### Camera connection

The pin assignment of the video inputs (BNC) is done either via the cable supplied or directly via the BNC video inputs on the recorder card. Now connect your video signals to the recorder card.



## Installing the software

The CD contains the following applications:

DigiProtect Server software  
DigiProtect Client  
DigiProtect Searcher

Before installing the software, make the following settings on the PCor:

1. Set the screen resolution to 1024 x 768 pixels, True Color 32 bit.
2. If the graphic card uses an overlay function, disable the function.
3. Disable the screensaver under [Control Panel / Display / Screensaver].
4. In this window, click [Energy Management]. Set [Turn off monitor], [Turn off hard disks], [Standby] and [System standby] to "Never".

Now install the DigiProtect Server software as follows:

1. Place the CD in the CD drive.
2. Select the directory for your card: "[CDROM]:\DigiProtect xxxx Server\" (e.g.: DigiProtect 900 Server).
3. Start Setup.exe in this directory. Follow the screen instructions to complete the installation. To proceed to the next step of the installation, click [Next]. To return to the last step, click [Back]. Click [Cancel] to cancel the installation.

Important: During the installation, you are asked to select the correct video modulation type (Europe: PAL). You also have to specify whether a DigiProtect audio card is installed and whether the POS function (point-of-sale connection) is to be installed. You are asked whether you want to install the standard or the UVV version of the DigiProtect software. To meet the accident prevention certification requirements, the UVV version must be installed. The Standard-Version includes the POS function (chash register function) and a minimize button additionally.

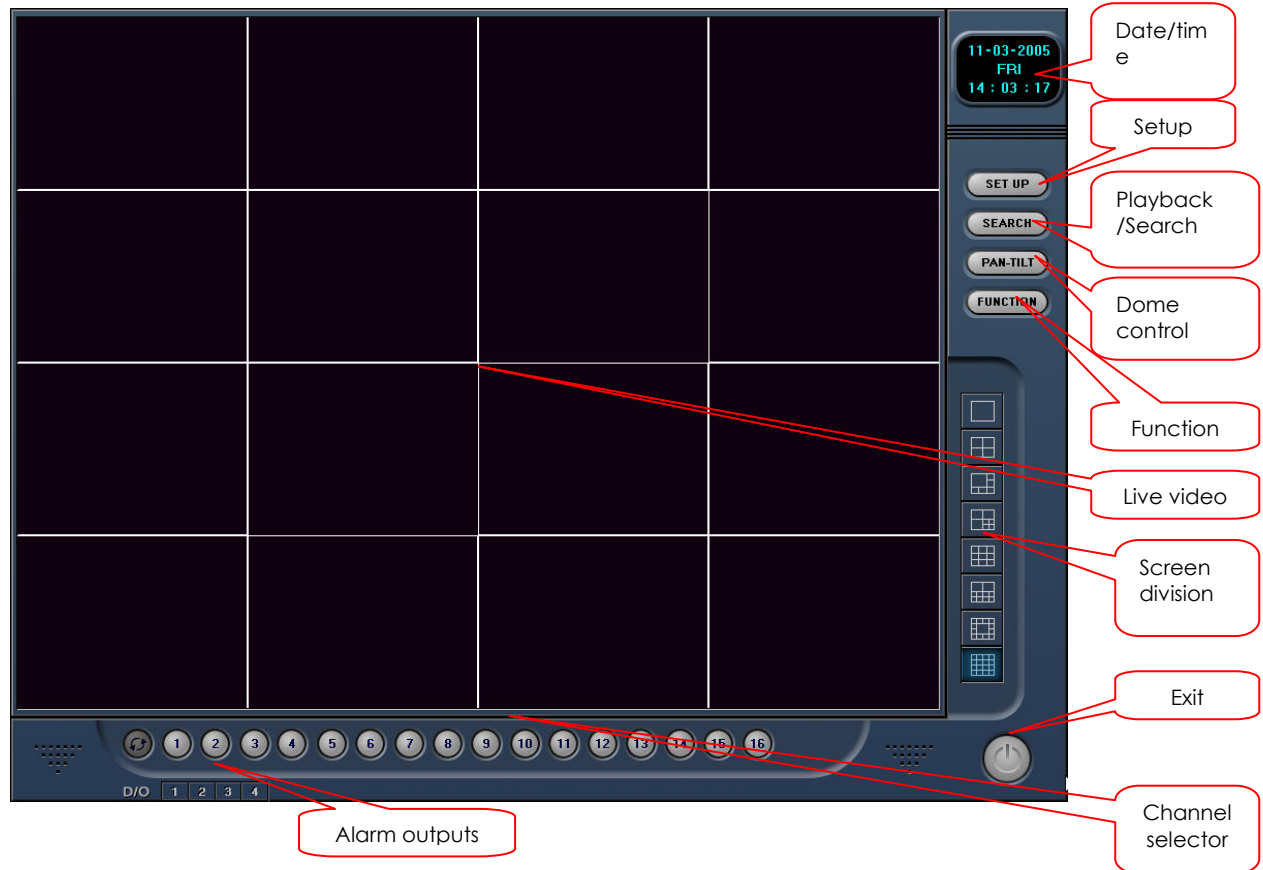
During installation, you may be asked to confirm editing of a read-only file ("ReadOnly File Detected") by the system. Click [YES].

4. Click [Finish]. Now double-click the DigiProtect Server icon on the desktop. Click [OK] to reboot the computer. During the reboot, the digital surveillance system starts automatically.

## First steps with the digital surveillance system








### Overview of the live screen

After the software starts, an information window opens on the screen. Close it by clicking [OK].



- Setup:** Here you can configure the digital surveillance system. Besides general settings, you can set the following here: recording type, schedule, motion detection, pan/tilt function, network and backups.
- Playback: [Search]** To play back recording video data you have a wide range of options for finding, analysing and saving relevant video data.
- Dome:** For controlling connected dome cameras
- Function:** Useful functions such as preview, system info, history, network messages or auto-email are available.
- Date/time:** Display of date and time

On-screen information: In the live view, various information can be displayed with the video picture:

-  Channel number
-  Normal (continuous) recording
-   Pre- (Pr) or post-event recording (Af)
-  Recording of motion event
-  Recording of sensor alarm event
-  Voice recording

Channel selector: Here you can select a specific channel or automatic channel sequencing.

Screen division: To view video pictures live, you can select either a single picture (full-screen) or up to 16 pictures at a time (depending on your video card). You can move the channels around in the live-video area according to your needs. To do this, left-click a live video picture and keep the mouse button pressed. Now drag the video picture to the desired live video area and drop it there.

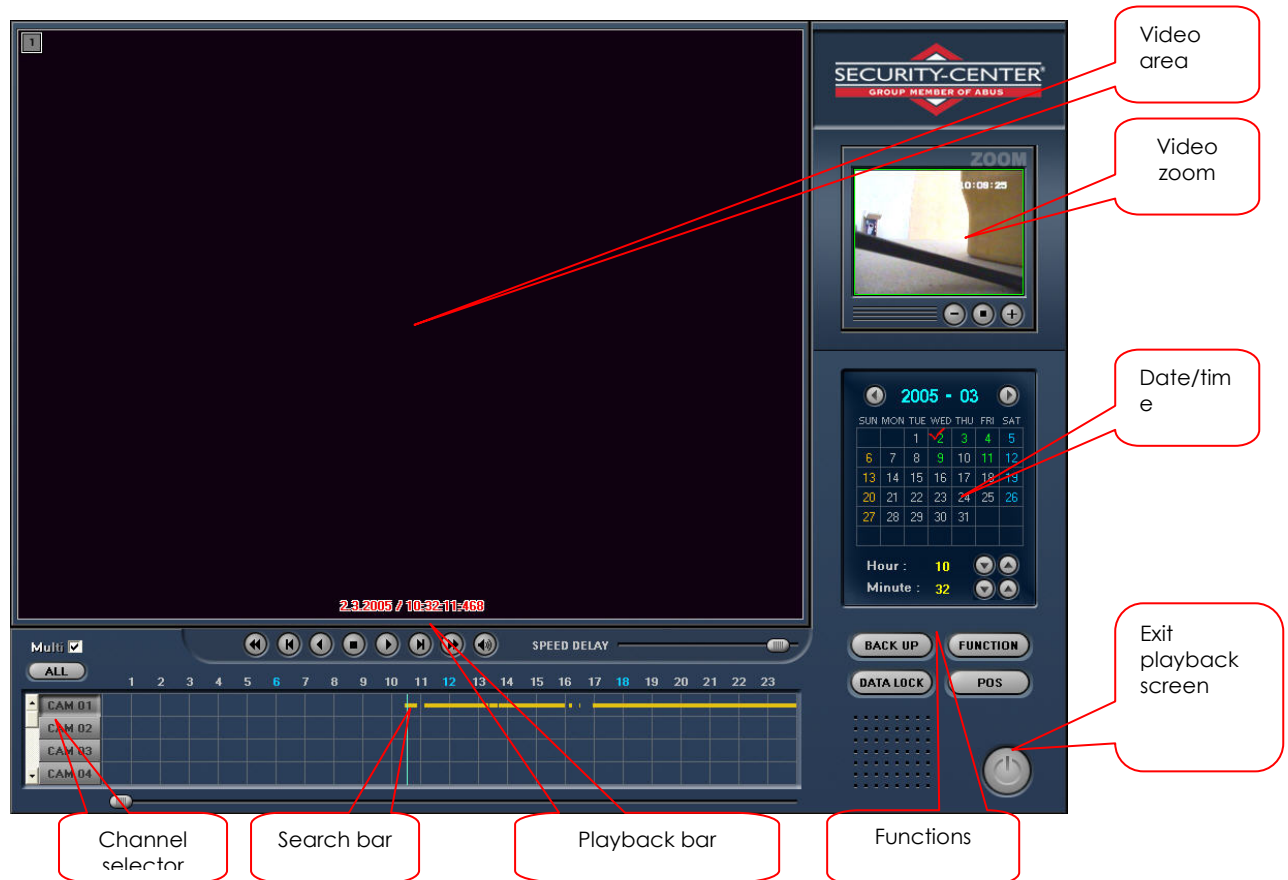
Alarm outputs: Outputs 1–4 can be switched here manually (optional alarm I/O card TV8812 required; see the section “Installing the alarm I/O card” for fitting).

Exit: Button for exiting the digital surveillance system

Exit submenus: Click the blue button above selection buttons to exit submenus at any time.



## Overview of the playback screen



**Search bar:** This function gives you direct access to recorded video data. The data is displayed as a coloured bar for each channel and according to recording type.

**Channel selector:** Buttons for activating/deactivating channels for display in the video area. The channels are arranged automatically in the video area. For more than four video channels, you can access the other video channels via the vertical scroll bar to the right of the channel selector.

**Playback bar:** Various functions are provided for playing back recorded data. In addition to continuous playback, you can select picture-by-picture display for analysing the video data.

**Date/time:** Here you can go directly to pictures recorded on a specific date or at a specific time.

**Video zoom:** For zooming parts of the video picture

**Functions:** Other playback screen functions such as backups or event search

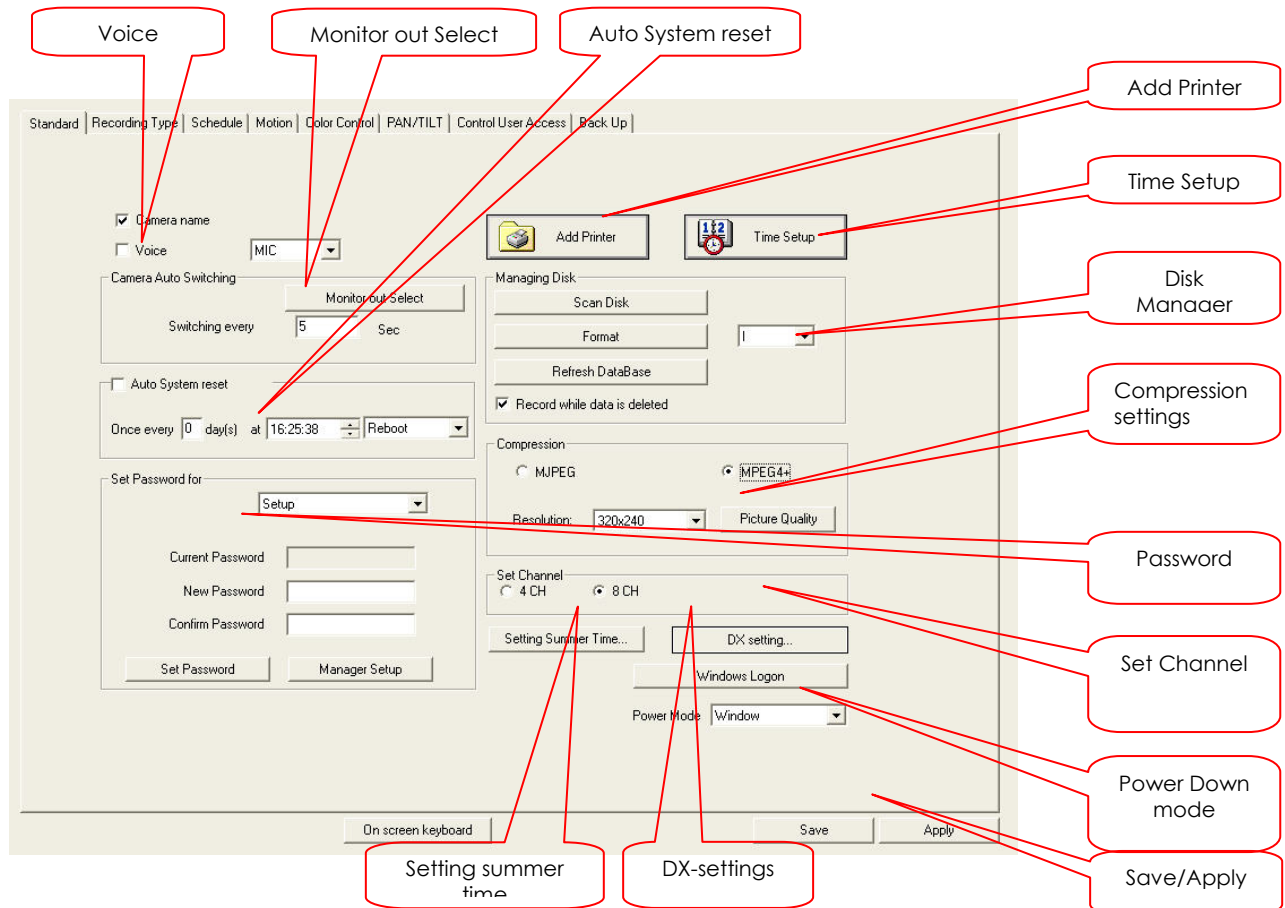
**Exit:** Button for exiting the playback screen

**! IMPORTANT:** To switch to the Windows user interface, the switch-off mode must be set to "Window" under [Setup / Standard / Power Down mode].

## Programming the DigiProtect system

Via [Setup] in the live screen, you open the configuration menu of the digital surveillance system. You can save your settings by clicking [Save]. Click [Apply] to save your settings and exit Setup. In Setup, you can set the following functions:

### Standard settings

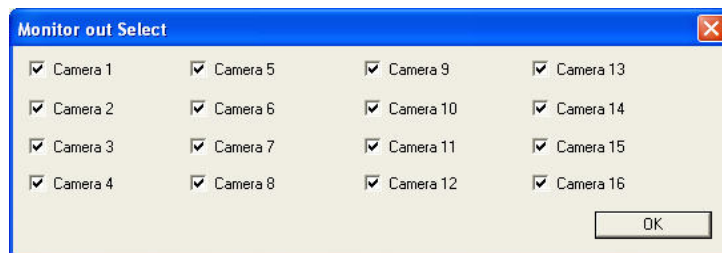


### Voice

One channel is provided for recording audio data. The built-in sound card of the PC is used as input. Click here to activate audio input (voice recording). Select between microphone (MIC) or line-in (LINE).

### Monitor out

The video card of the digital surveillance system has a socket for connecting an external monitor (Chinch connector next to the camera inputs). You can select channels for display on the external monitor by clicking [Monitor out Select] (not Model TV8809, TV8810, TV8811). The display mode in the surveillance system (single-picture, multi-channel display) is used for the external connection. In the case of single-picture display, the channels can be shown in sequence. You can define the display time (dwell time) of each channel by entering the time in seconds.




### Add Printer

Click to install a printer. You can connect a local or network printer to the surveillance system. You install the printer via the Windows standard routine.

### Time Setup

For setting the current system time

 **IMPORTANT:** If you reset the clock, older video data may be overwritten.


### Auto System reset

Reboots the recording system automatically. If necessary, you can merely switch off the system (without rebooting).

### Disk Manager

The disk manager includes functions for defining, checking and formatting a disk drive. From the menu, you can select a drive letter for saving data (e.g., drive D). When all space is used up on this drive, the system automatically goes to the next available drive letter.

[Scan Disk] checks the drive for errors. Click [Format] to delete all data from the drive via the Windows formatting function.

 **IMPORTANT:** If only one partition is available for saving data (e.g., C:\), the data is written to this drive. In this case, the [Format] function must be carried out only once.

Click [Refresh DataBase] to check the structure of recorded data of the individual channels and reorganise it automatically if necessary.

Enable [Recording while delete data] for continuous saving of recorded data. When the drive is full, the oldest data is automatically overwritten. If this function is not enabled and no further memory is available, an alarm tone sounds and a message appears, telling you to change the storage location.

### Compression

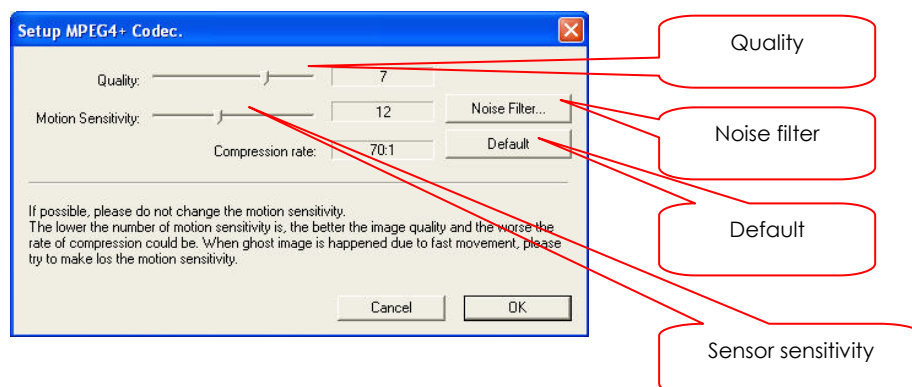
Here you can set the compression type, the recording resolution and the recording quality.

Two compression methods are available for recorded video data: MJPEG (single-picture compression) and MPEG4+ (picture-difference compression).

Three resolutions are provided for video pictures: 320 x 240, 720 x 240 or 720 x 480 pixels.

Click [Picture Quality] to select the compression rate. The higher the compression rate, the lower the memory requirement, but the poorer the image quality.

For MPEG4+ compression, the sensitivity of the motion sensor must be set and the noise filter must be set (see the following figure). The lower the sensitivity, the higher the image quality.



### Window logon

Enter a user name and password for a Windows logon. You need these for an automatic system start. The data is automatically accepted by the operating system.

### Power Down mode

When you switch of the digital surveillance system, the PC either returns to Windows or shuts down.

### Camera name

Enable this option to display the name, number and status of each camera in the video picture.

### On-screen keyboard

For entering camera names, passwords, etc., an on-screen keyboard is provided. You operate the keyboard with the mouse. No external keyboard is required, which increases access protection.



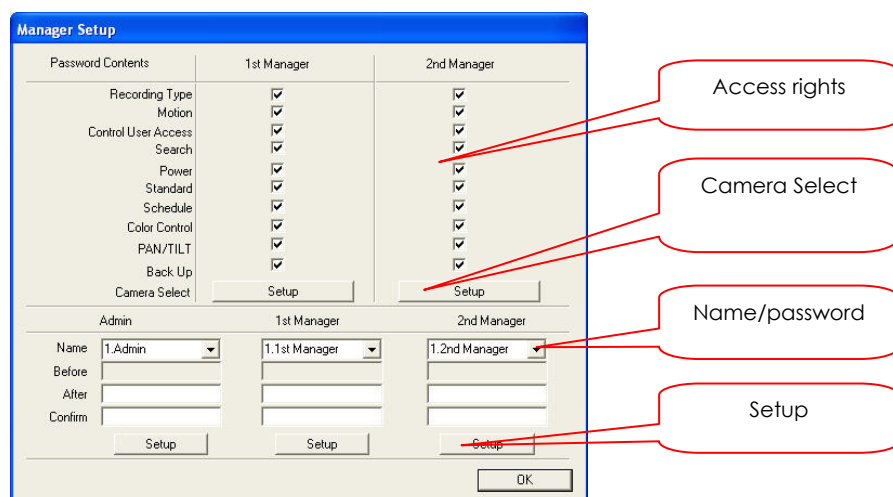
### Password

There are two ways of defining passwords for system access. With the first method, you can define passwords for the setup, search, live screen access and switch-off levels.

## User setup

With the second method, you can define names and passwords for Level Administrator, 1st Manager and 2nd Manager (14 each). User 1 of each level can access the user setup.

The administrator level has all access rights for the system. For each user, a password and access rights to different levels can be defined. On these levels, users then have administrator rights. Before a user has been installed, only the password has to be entered at [LOG IN].



If you click [Camera Select], you can also define the camera inputs visible to different users.

If you click [Setup] at the bottom of the window, the data you enter is accepted for the respective user.

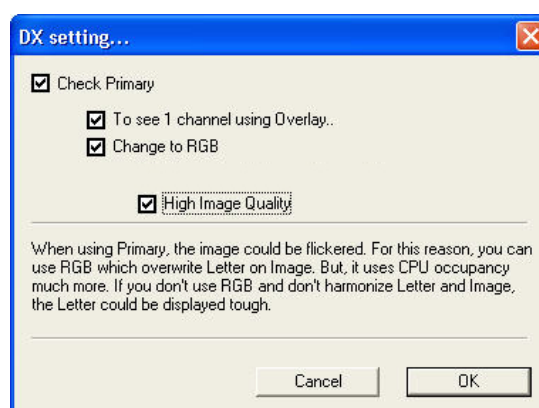
## Set Channel

The administrator can configure the video card used (4, 8 or 16) to the software of the digital surveillance system. If channels are not used, they have to be deactivated under [Setup / Recording Type] (no display and no recording – see next page).

## DX-Setup

This menu is available in standard version only. The DX-setup is used to adapt the VGA card to the surveillance system. There are 2 display modes available: 1. Primary mode, 2. Overlay mode.

The software detects the best display mode automatically. On display errors please activate the primary mode. The RGB-function improves the primary mode, but this consumes more CPU power. In RGB mode you can set a better picture quality (32 Bit).



## Summer time

Here you can set the summer time. The DVR then is switching automatically between the summer and winter time.



## Recording

The screenshot shows the 'Recording Type' configuration window. It features a table with columns for Camera (NO, Display, Position), Recording Type (Event, Frame (1-30), Pre, Post, Sensor type), and Alarm Control (Time, 1-8). The table lists 16 channels. Callouts point to various elements: 'Channel' points to the NO column; 'Alarm Control' points to the Time column; 'Pre/post-recording' points to the Pre/Post columns; 'Frame rate' points to the Frame (1-30) column; 'Record Motion/Sensor Event' points to the 'Record Motion/Sensor Event' checkbox; 'Video channel' points to the Display column; 'Auto Camera Search' points to the 'Auto Camera Search' button; 'Name' points to the Position column; 'Event setup' points to the 'Event setup' button; 'Recording type' points to the Event column; and 'Alarm event' points to the Alarm Control columns.

Camera			Recording Type				Alarm Control									
NO	Display	Position	Event	Frame (1-30)	Pre	Post	Sensor type	Time	1	2	3	4	5	6	7	8
1	None		No Rec	7	x	x	o	0	.	.	.	.	.	.	.	.
2	None		No Rec	7	x	x	o	0	.	.	.	.	.	.	.	.
3	OK		Motion	max/7/7	0	0	o	0	.	.	.	.	.	.	.	.
4	None		No Rec	7	x	x	o	0	.	.	.	.	.	.	.	.
5	None		No Rec	7	x	x	o	0	.	.	.	.	.	.	.	.
6	OK		Record	max	x	x	o	0	.	.	.	.	.	.	.	.
7	None		No Rec	7	x	x	o	0	.	.	.	.	.	.	.	.
8	None		No Rec	7	x	x	o	0	.	.	.	.	.	.	.	.
9	None		No Rec	7	x	x	o	0	.	.	.	.	.	.	.	.
10	OK		Motion	7/7/7	0	0	o	0	.	.	.	.	.	.	.	.
11	None		No Rec	7	x	x	o	0	.	.	.	.	.	.	.	.
12	None		No Rec	7	x	x	o	0	.	.	.	.	.	.	.	.
13	None		No Rec	7	x	x	o	0	.	.	.	.	.	.	.	.
14	None		No Rec	7	x	x	o	0	.	.	.	.	.	.	.	.
15	None		No Rec	7	x	x	o	0	.	.	.	.	.	.	.	.
16	None		No Rec	7	x	x	o	0	.	.	.	.	.	.	.	.

Buttons: Auto Camera Search, Event setup, Set ALARM Event>>, Record Motion/Sensor Event, On screen keyboard, Save, Apply.

## Video signal

You can show or hide a connected camera on the live screen. Although an installed but hidden camera is not shown in the live view, it is recorded with the corresponding setting. Left-click a channel field to switch between options.

## Name

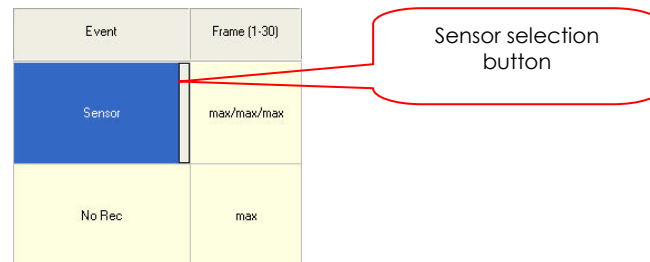
You can give each camera input a name. This camera name is shown in the video picture and saved with it. You can enter the name via a normal keyboard or the on-screen keyboard.

## Recording type

The following recording types are available:

- Record: [continuous recording] The video data is recorded continuously.
- Motion: [motion-triggered recording] Recording is triggered by motion sensors of the respective channel. You can configure the sensors under [Setup / Motion]. They react to changes in the video picture (or parts thereof).
- Sensor: [recording triggered by alarm sensor] Recording is controlled via max. 16 alarm inputs. The input connections are on a separate sensor

card, which has to be built in to the system. If you click the record type button again, another button appears on the right.



Click this button to open a submenu. You can now choose the alarm inputs to which the selected channel is to react.. Do this by enabling the required alarm inputs (1–16).

- **Schedule:** [scheduled recording] Recording takes place according to a channel-specific schedule. You can select a different recording type for every hour. You define the schedule under [Setup / Schedule].
- **Rec/Mot:** [continuous recording / motion sensor] The video picture of the channel is recorded continuously and for motion sensor events in this channel.
- **Rec/Sen:** [continuous recording / alarm sensor] The video picture of the channel is recorded continuously and on the triggering of the respective alarm input.
- **Mot/Sen:** [motion/alarm sensor] The video picture of the channel is recorded if either the motion sensor or the alarm sensor is triggered for this channel.
- **R/M/S:** [record/motion/sensor] The video picture is recorded continuously and if either the motion sensor or the alarm sensor is triggered for this channel.
- **No Record:** No video data is recorded for this camera input.

## Frame

Here you define the frame rate (number of pictures recorded per second) for the channels. In the PAL standard, this is max. 25 frames per second. The frame rate can be variably defined, but the maximum recording frame rate of the DigiProtect card used must not be exceeded (e.g., DigiProtect 25: max. frame rate 25 frames per second for all channels).

Furthermore, for the motion sensor and alarm sensor recording types, the frame rates can be set separately for pre- and post-event recording.



### Pre- and post-event recording [Pre/Post]

The DigiProtect digital recording system has a so-called pre- and post-event recording feature. If recording is triggered by a motion or alarm sensor, the system stores the video data of up to 20 minutes before and after the event. The pre-event recording data is buffered for the time specified and retrieved if required (if an event occurs). The pre- and post-event recording times can be set at anything between 1 second and 20 minutes.

Important: The pre-recording first functions following the expiry of the desired time after setting, since otherwise the data is not written completely to the buffer.

### Sensor type

Defines the switch type of the alarm inputs. It is either NO (normally open) or NC (normally closed). If you select two or more alarm inputs for triggering recording under [Set ALARM Event], this switch setting applies to all alarm inputs.

### Alarm Control

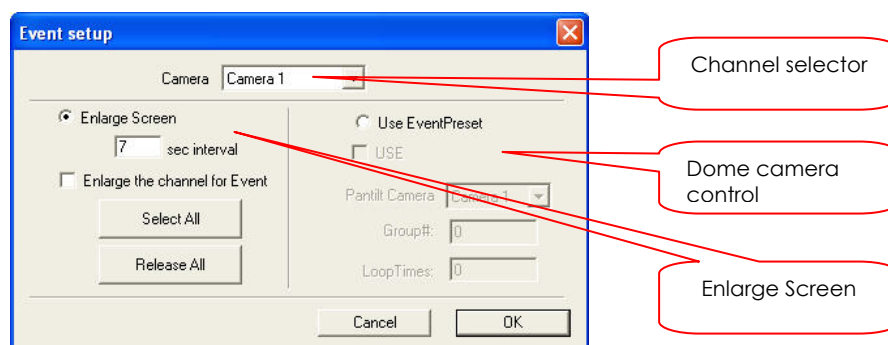
The recording system can switch up to 8 alarm outputs for different events. The connections are on an optional alarm card, which has to be built in to the system. Here you can define the alarm output to be switched for an event. Possible events are motion detection, triggering of an alarm input, loss of video signal and active recording status. The duration of the activation of the alarm output can be set between 0 and 90 seconds. If this is set to [on], a short impulse is activated at the output.

### Auto Camera Search

Click to search automatically for connected video sources. Sources found are activated for live display and set to continuous recording.

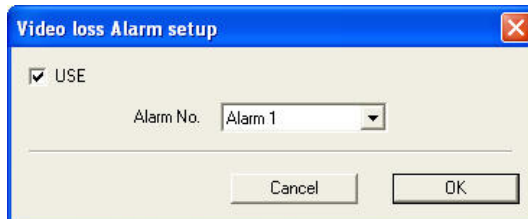
### Event setup

Here you can activate a function that points to any event that occurs. Two functions are available:  
The first function switches to full-screen display for a specific time if an event occurs.  
The second function can control a dome camera if an event occurs.



## Set ALARM Event

Here you can forward a video signal loss and the recording state to an alarm output.



Video loss Alarm setup

☒ USE

Alarm No. Alarm 1

Cancel OK



Set recording state signal

☒ USE

Alarm No. Alarm 1

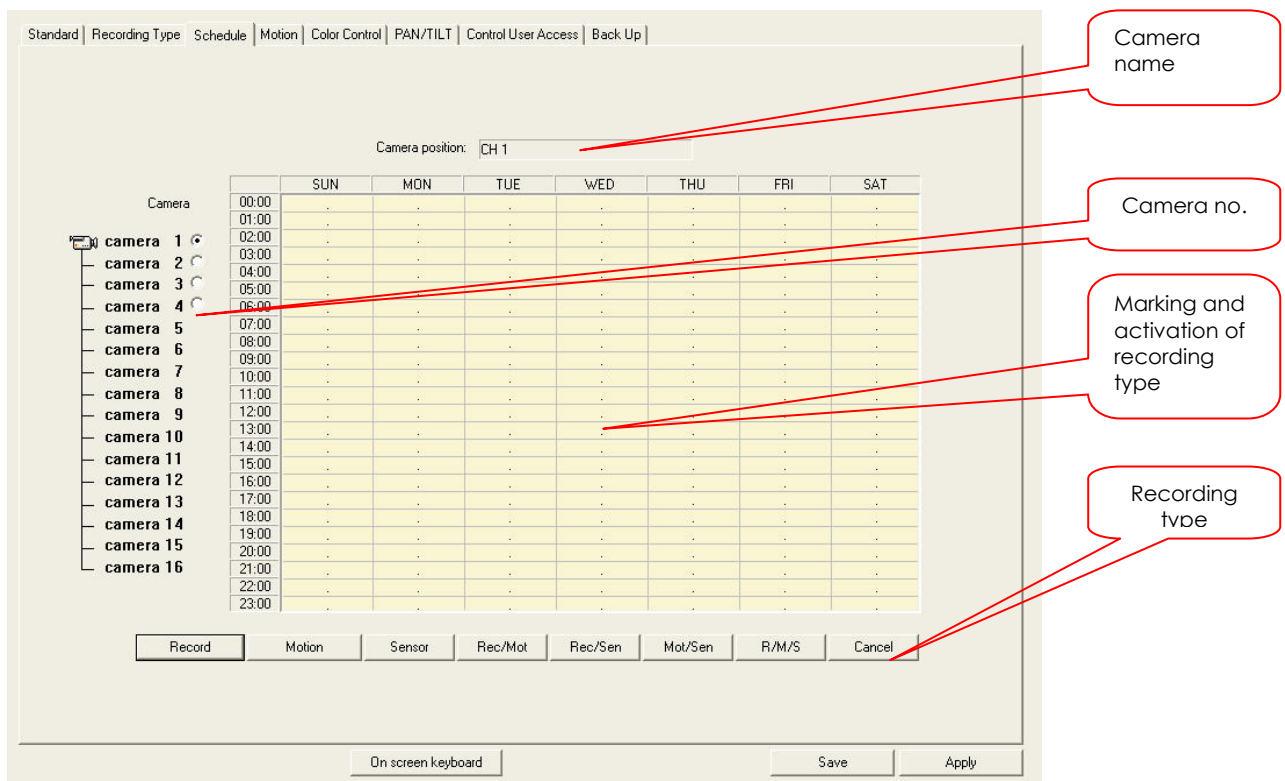
Cancel OK

## Record Motion/Sensor Event

If you enable this function, the event is registered on the playback screen under Function/Event filter/Event memory/log.

## Schedule

In the schedule, you can select a different recording type for each hour and camera. Mark a period and click a recording type button in the lower part of the window. If you right-click the mark, you can also switch between recording types.



Standard | Recording Type | Schedule | Motion | Color Control | PAN/TILT | Control User Access | Back Up

Camera position: CH 1

Camera	00:00	SUN	MON	TUE	WED	THU	FRI	SAT
camera 1								
camera 2								
camera 3								
camera 4								
camera 5								
camera 6								
camera 7								
camera 8								
camera 9								
camera 10								
camera 11								
camera 12								
camera 13								
camera 14								
camera 15								
camera 16								

Record Motion Sensor Rec/Mot Rec/Sen Mot/Sen R/M/S Cancel

On screen keyboard Save Apply

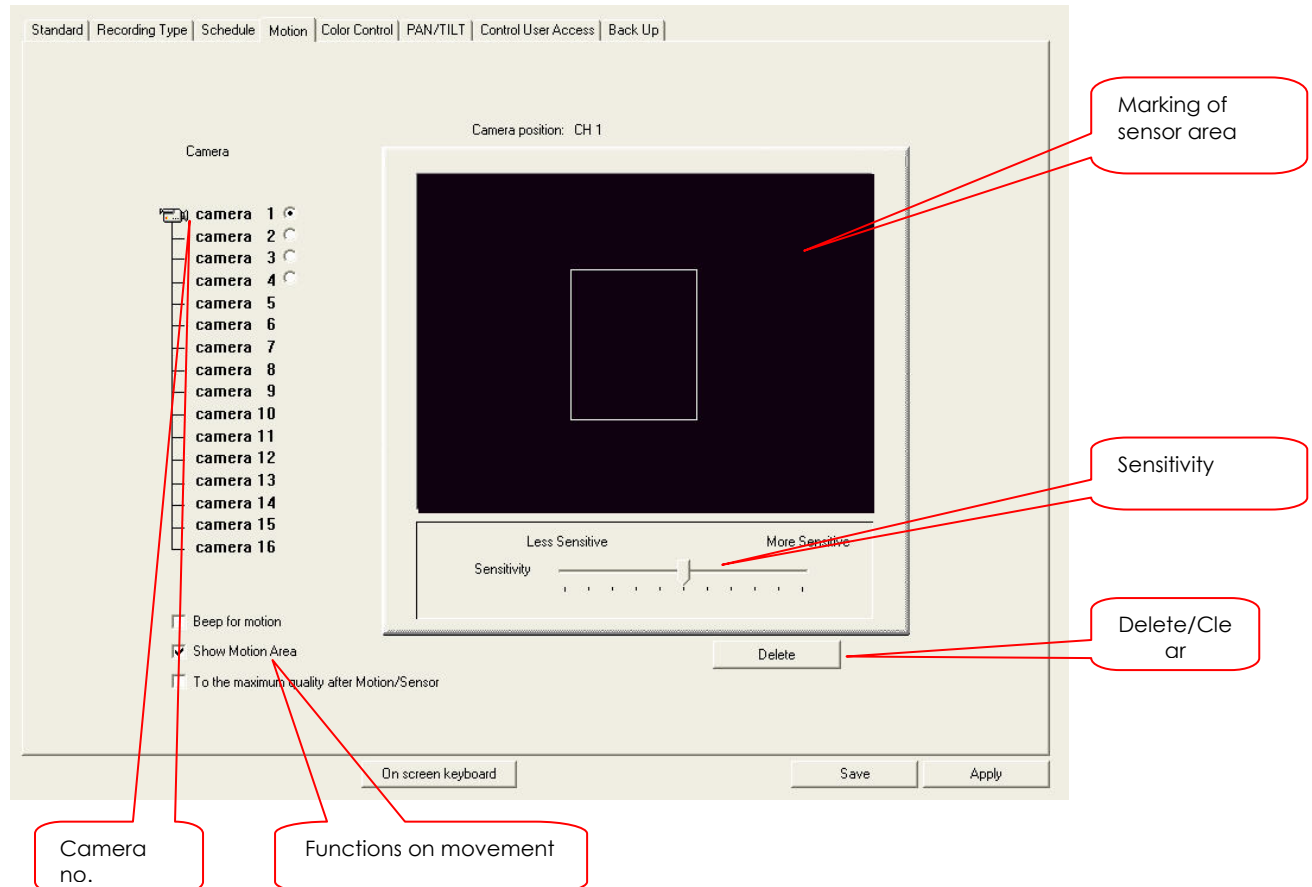
Annotations:

- Camera name
- Camera no.
- Marking and activation of recording type
- Recording type

## Motion

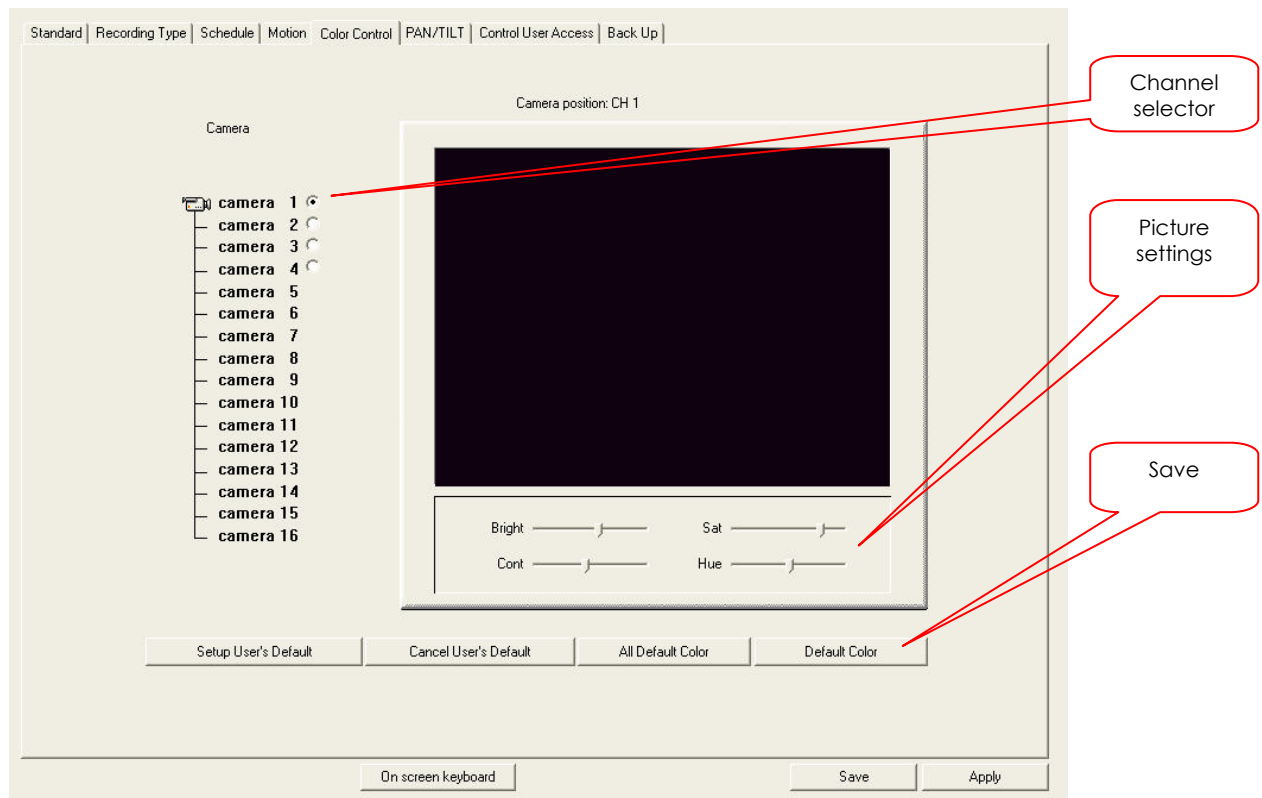
For motion-triggered recording, the motion sensors for the different cameras have to be configured. Select a camera and mark the areas in the camera window to be monitored. With the Sensitivity slider, you define how big the changes in the video picture have to be to trigger motion detection. Click [Delete] to delete a marked area.

Enable [Beep for Motion] for an acoustic signal and [Show Motion Area] for an optical marking if motion is detected. Select [To the maximum quality after Motion/Sensor] for recording at maximum frame rate following an event.



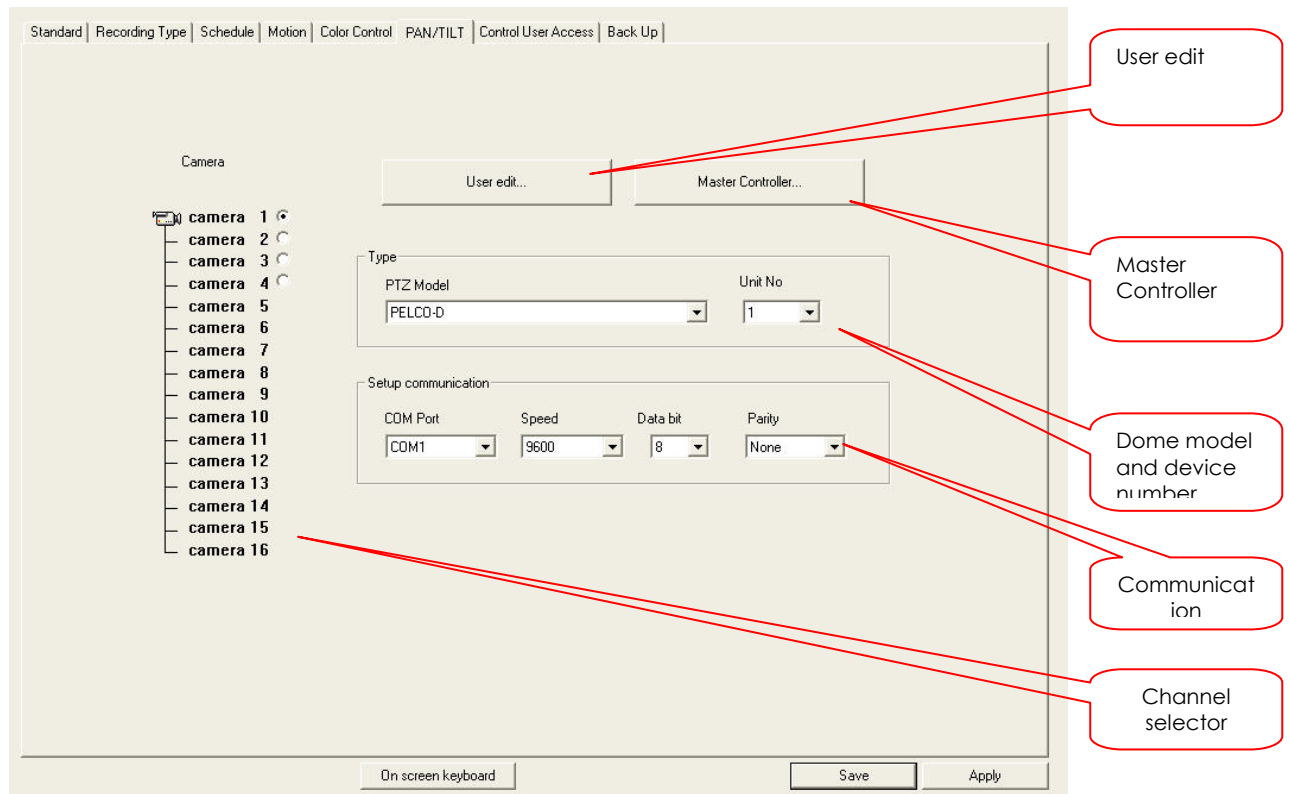
## Color Control

Here you can set the brightness, saturation, contrast and hue of the channels. If you click [Setup User's Default], the settings for this channel are used. [Cancel User's Default] resets all settings to the default system values. [All Default Color] sets the values of all channels to the user settings. [Default Color] sets the settings to the user definitions.



### PAN/TILT (dome camera) setup

With the digital surveillance system, you can control pan/tilt cameras (dome cameras). First select the camera channel to which a dome camera is connected. Then select the connected model (protocol) with the device number.



You also have to set the communication parameters between the system and the dome camera correctly (COM port no. on system, speed, data bits, parity).

### User settings

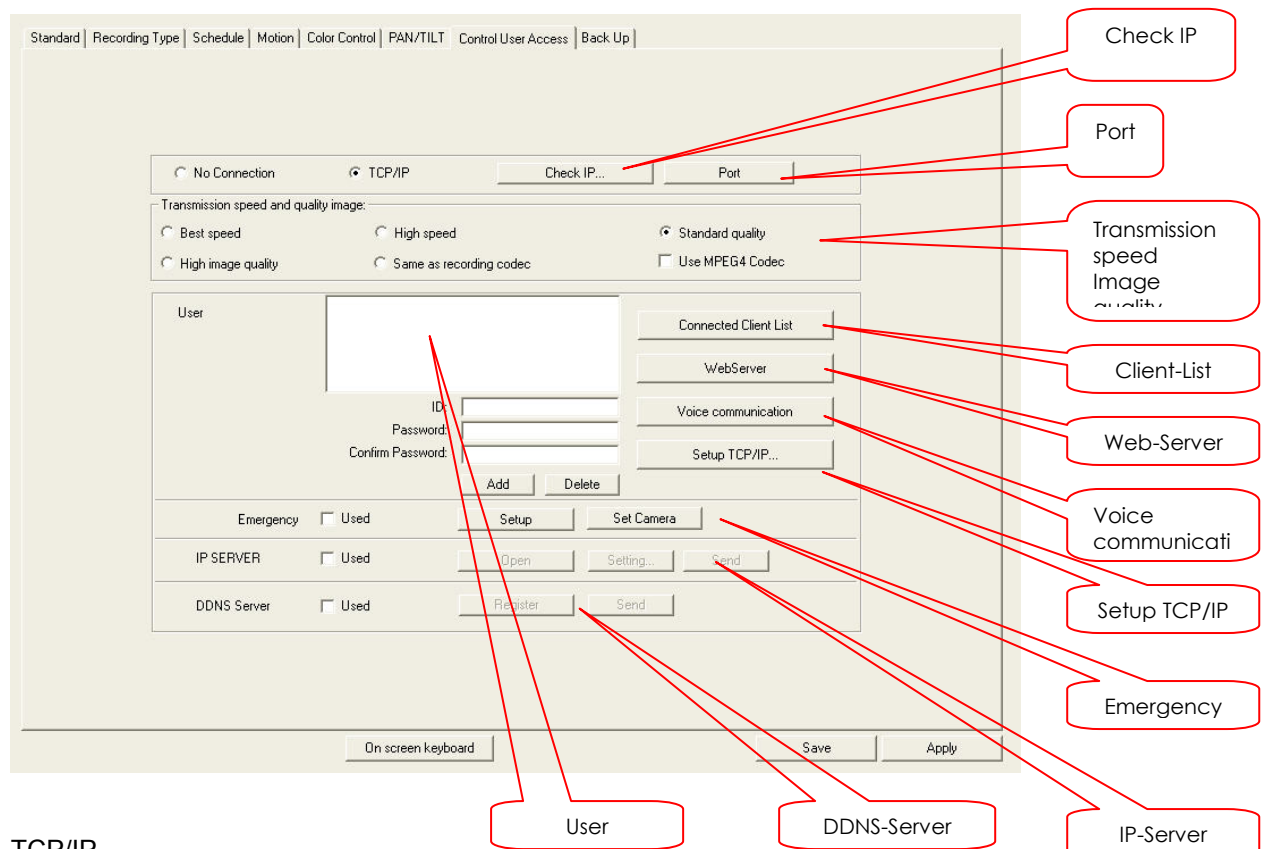
If your dome camera is not on the model list, you can enter the specific control commands here (hex code).

### Master Controller

Here you can integrate a separate camera master controlled into the system. Select the model from the list, set the communication parameters, and activate the device.

### Control User Access

You can have remote access to the digital surveillance system via a network. The system then works as a server. A user accessing this server is called a client.



### TCP/IP

To enable remote access, click [TCP/IP].

### Check IP

The server IP is defined either automatically or manually.

### Port

Define the network port here. The default setting is Port 2000. The server and client port numbers must be identical.

### Transmission speed and image quality

Select a quality or speed according to the connected network.

### User

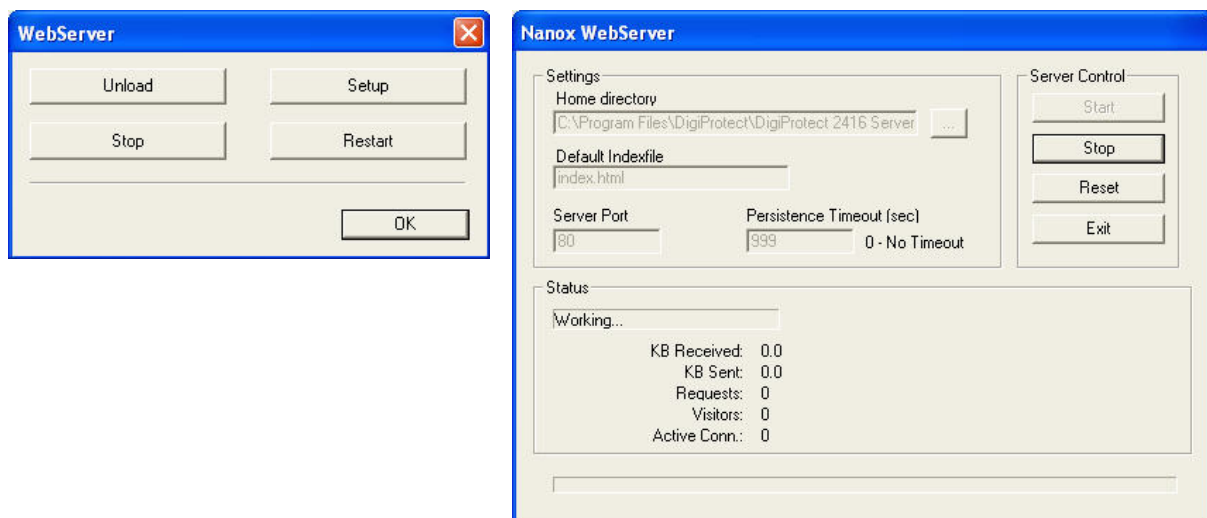
Here you can add or delete network users. To add a user, define the user ID and password, confirm the password and click [Add]. You can remove a user with [Delete].

### Connected Client List

Click to view all active connections.

### WebServer

The digital surveillance system has a built-in web server that allows access to the system via the Internet Explorer. The user can access the system by entering the IP address in the address bar of the Internet Explorer.



Under [Settings], you enter the setup of the web server. This is active following system installation. If necessary, the port of the web server can be changed under [Server Port].

### Voice communication

Voice communication is possible between server and client. Enable communication and select a connected user. The microphone is connected to the line-in port of the PC. The voice recording function and [Setup / Standard / Voice] must not be enabled.

### Setup TCP/IP

Here you can make settings for the TCP/IP protocol. You can define this data automatically or manually, depending on the network connection. For manual definition, enter the IP address, the subnet mask, the gateway, and the DNS of the network adapter in the respective fields. If you use a router, enter a local IP and use the router IP as gateway and DNS.



## Emergency Call

With this function, an emergency call can be made to a telephone number if an event such as an alarm occurs. For this you need a voice modem integrated in the system. For an own emergency call please overwrite the file „C:\Program files\DigiProtect\DigiProtect xxxx Server\TemC.wav“ (8kHz, 16 bit mono) with an own file.

## DDNS server

Via the DDNS function, a constantly changing IP is made known via an address in the Internet registered with DynDNS (e.g., via [www.dyndns.org](http://www.dyndns.org)). Enable the DDNS server function, enter your DDNS access data, and define the interval at which the IP is to be checked.

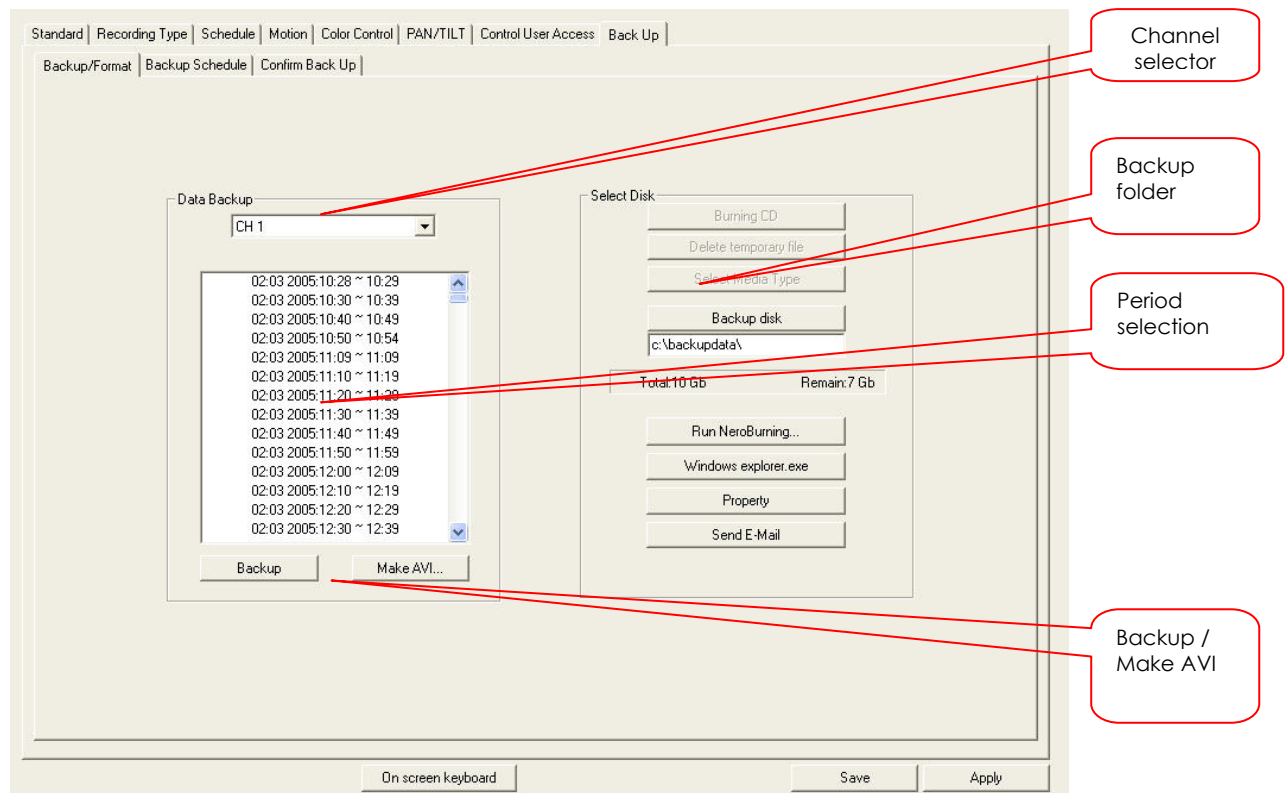
## IP server

Via the IP server function, the IP can also be linked to any site name.

## Back Up

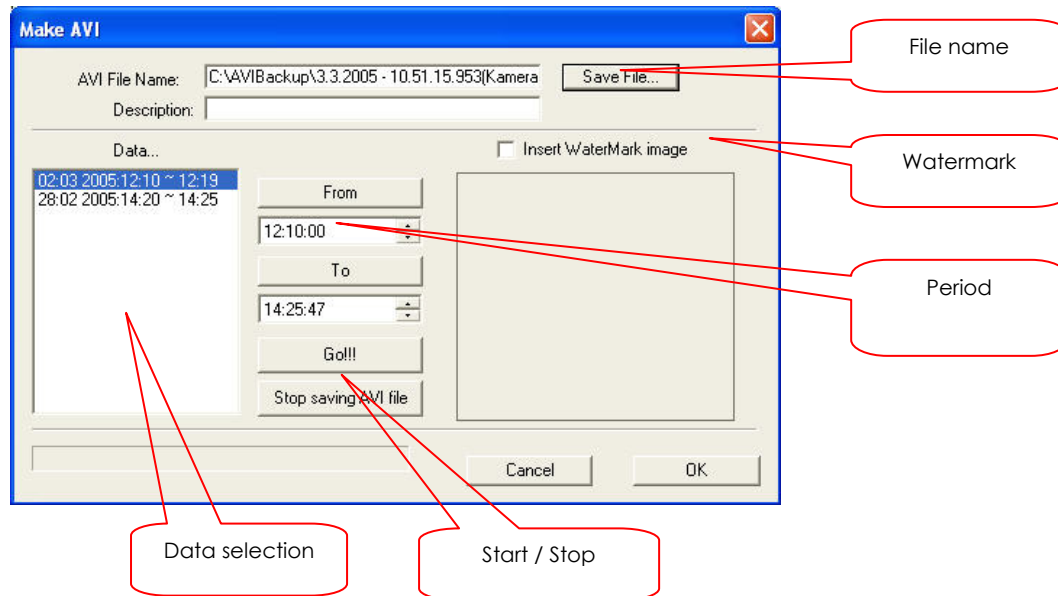
Here you can define the making of backups. The data can either be backed up in database format or as an AVI file. In database format, the data can only be edited on this system or with the special software (Searcher) supplied. As an AVI file, the video data can be displayed with programs such as the Windows Media Player.

First select the channel whose data you want to back up. In the window below, select a period. Click [Backup] to save the data in database format. Click [Make AVI..] for AVI conversion.



## Make AVI

If you click [Make AVI..], the AVI converter opens. Select a period under [Data]. Click [Save File...] and enter a file name. Confirm with [Save]. In the centre of the AVI converter, you can restrict the period for which an AVI file is generated. Click [Insert WaterMark] to assign a digital watermark to each AVI file. Click [Go!] to start the conversion process.



## Backup disk

Click to select the path for the backup data.

## Run NeroBurning...

Click to start the Nero CD burn application automatically (if installed on your system). The data is then backed up to an external storage medium.

## Windows explorer.exe

Click to open the Windows Explorer for data management.

## Send E-Mail

You can send a converted AVI file immediately as an e-mail. First create an AVI file. Then click [Send E-Mail]. A password entry window opens.

The 'Send E-Mail' dialog box contains the following fields and buttons:

- Title:** A text input field.
- Description:** A text input field.
- File name:** A text input field containing 'C:\AVIBackup\3.3.2005 - 10.51.15.953(Kamera-2).avi'.
- SMTP Server:** A text input field.
- Mail Address:** A group box containing:
  - From:** A text input field.
  - To:** A text input field.
- Buttons:** 'OK' and 'Cancel'.

Annotations with red lines point to:

- Title / Description:** Points to the Title and Description fields.
- SMTP Server:** Points to the SMTP Server field.
- Sender's address:** Points to the From field.
- Recipient's address:** Points to the To field.

Enter a title and brief description of the short film scene. The file name of the last generated AVI file appears automatically. On the next line, enter the SMTP server address of your e-mail provider (e.g.: mail.gmx.net). Under [Mail Address], enter your own address (From) and the destination address (To). Click [OK] to send the e-mail. ⚠ **IMPORTANT:** Make sure the recipient's mailbox has sufficient capacity.

### Backup Schedule

Here you can define that a backup for a particular period is made at the specified time. First highlight a channel and then select it by clicking [Channel]. Define the period you want to save under [Save time] and the backup time under [Back Up time].

The 'Backup Schedule' dialog box has the following structure:

- Tabs:** 'Standard', 'Recording Type', 'Schedule' (selected), 'Motion', 'Color Control', 'PAN/TILT', 'Control User Access', 'Back Up'.
- Sub-tabs:** 'Backup/Format', 'Backup Schedule' (selected), 'Confirm Back Up'.
- Table:**

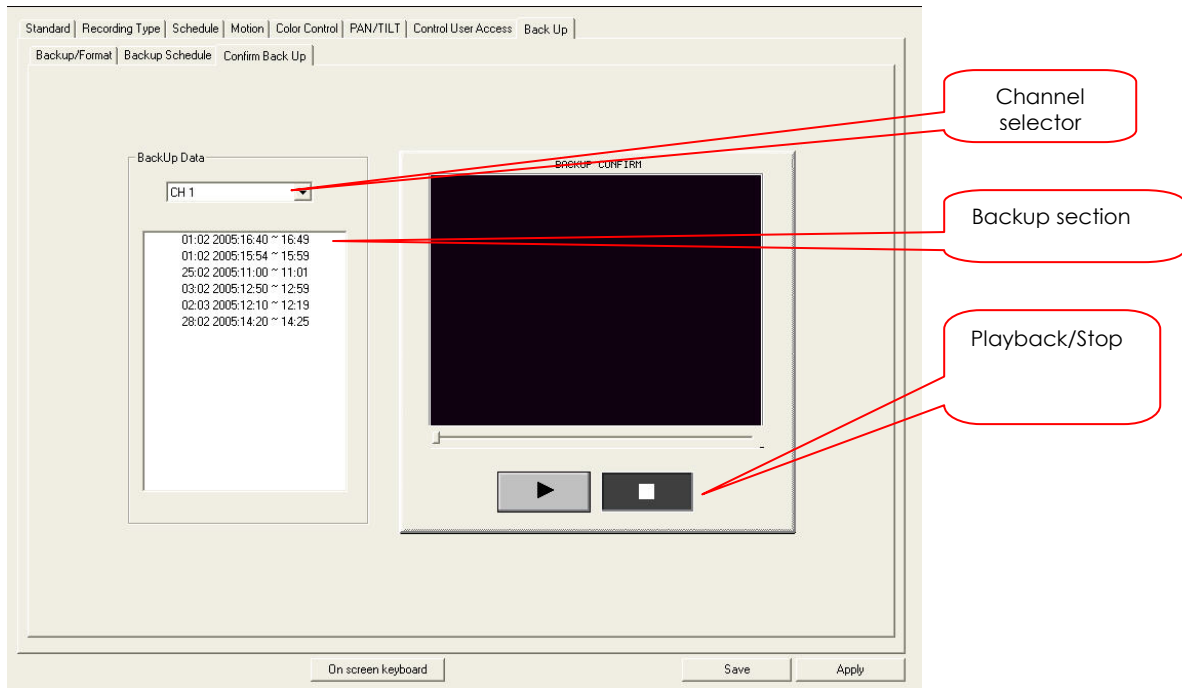
	Save time	Back Up time
<input checked="" type="checkbox"/> 1	2005-02-07 12:20~2005-03-04 11:10	2005-02-07 12:20~2005-03-04 11:10
<input type="checkbox"/> 2	2005-02-24 11:36~2005-03-03 11:15	2005-02-24 11:36~2005-03-03 11:15
<input type="checkbox"/> 3	2005-02-08 16:20~2005-03-09 11:48	2005-02-08 16:20~2005-03-09 11:48
<input checked="" type="checkbox"/> 4	2005-02-22 21:53~2005-02-24 14:16	2005-02-22 21:53~2005-02-24 14:16
<input type="checkbox"/> 5		
<input type="checkbox"/> 6		
<input type="checkbox"/> 7		
<input type="checkbox"/> 8		
<input type="checkbox"/> 9		
<input type="checkbox"/> 10		
<input type="checkbox"/> 11		
<input type="checkbox"/> 12		
<input type="checkbox"/> 13		
<input type="checkbox"/> 14		
<input type="checkbox"/> 15		
<input type="checkbox"/> 16		
- Buttons:** 'On screen keyboard', 'Save', 'Apply'.

Annotations with red lines point to:

- Channel selector:** Points to the channel number column (1-16).
- Enable:** Points to the checkbox column.

## Confirm Backup

Here you can view backed-up data. On the left, select a channel and the backup section, and click the playback or stop button on the right.



## Operating the digital surveillance system

### Controlling dome (PTZ) cameras

To open the dome control tab, click [PAN/TILT] in the live screen.

With the digital surveillance system, you can control a large number of PTZ (dome) cameras. You first have to configure a connected PTZ camera on the [Setup/PAN/TILT] tab.

#### Speed

The pan and tilt speeds can be adjusted according to requirements.

#### Zoom/Focus

You can zoom and focus the camera manually with the [+] and [-] buttons.

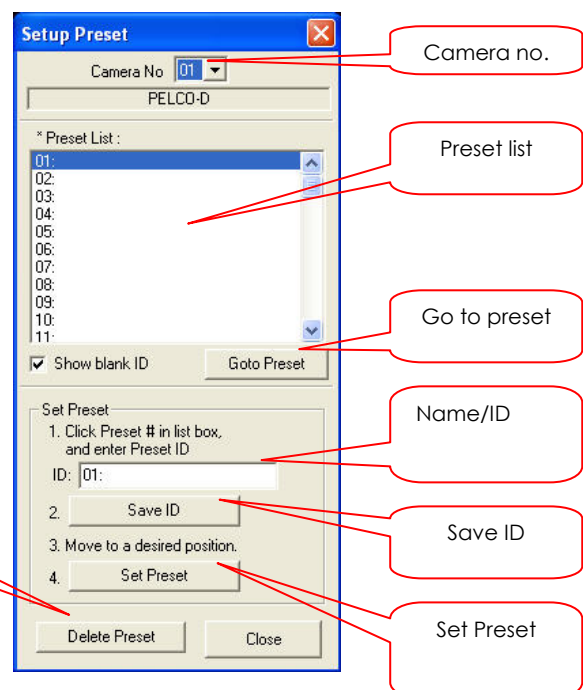
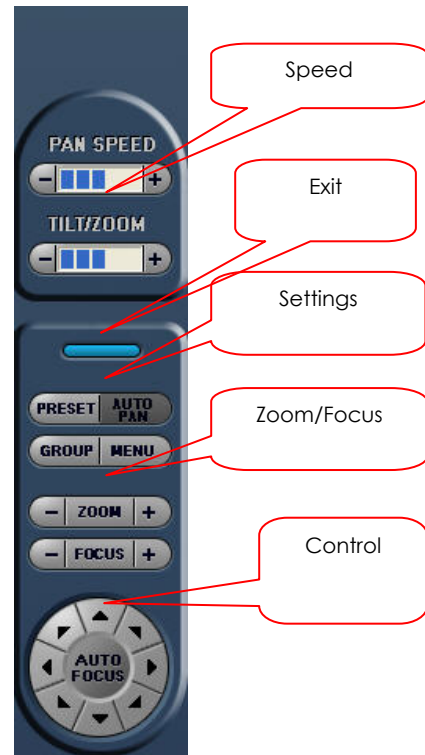
#### Control

This contains the direction control buttons. At the centre is an autofocus button (not active for all cameras).

#### Setup Preset

Under [Preset], you can save and retrieve camera positions. Up to 64 preset positions can be saved for each camera channel.

Select a number from the Preset list and name this position under [ID]. Now move the camera to the desired position and then click [Save ID]. Remove a preset with [Delete Preset].



## Auto Group

This figure shows the Auto Group window. Here you can form a group of preset positions. The positions of this group are then automatically set by this camera at specific successive time intervals.

Enter a group number and ID and click [Group Add]. In the lower half, select a preset and click [Preset Add]. Add all desired positions to the group. Then click [Group Run] to start automatic positioning.

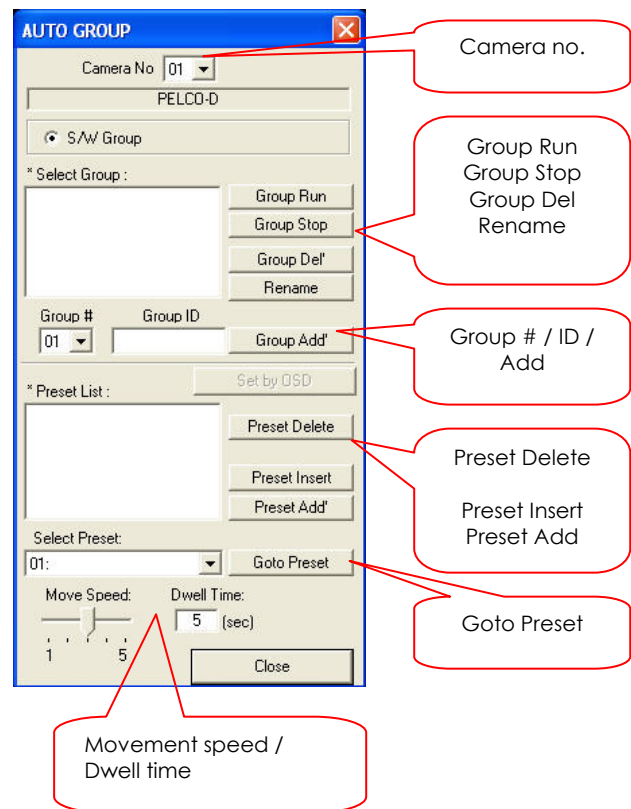
At the bottom, you can set the movement speed and the dwell time for each position.

## Setup menu

Here you can control various functions of the PTZ camera. These functions cannot be accessed for all camera models.

## Close

Click this blue button to close camera control.



## Subfunctions of live screen

### Views

As mentioned above, the video section of the live screen can be divided into 4, 6, 7, 9, 10, 13 or 16 smaller screens. The channels can be swapped around on the screen. To move a channel, left-click it and keep the left mouse button pressed. Drag the video picture to the desired position and drop it there.

If you left-click a channel, you can change it to full-screen display. Click again to return to the original view. A right-click enlarges the video area to fill the whole screen.

Other functions are available in the live screen. You access these functions by clicking [FUNCTION].

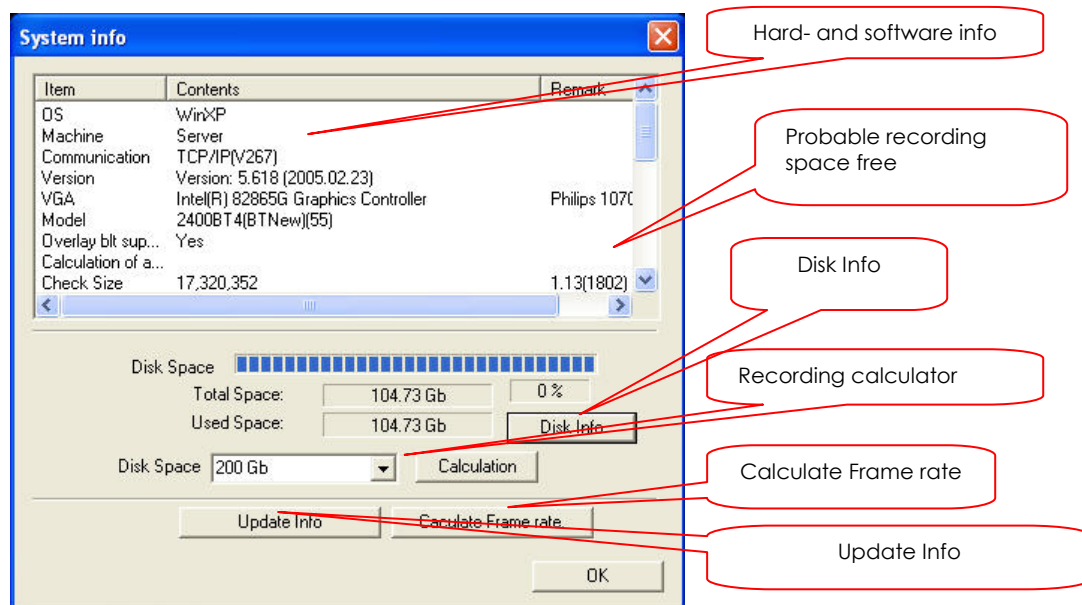
### Recording Preview

The preview shows all currently recorded channels.



### System Information (SYS-INFO)

Provides information on operating system, program version or system hardware. Other useful tools are the recording calculator, drive info or the frame-rate calculator.



Item	Contents	Remark
OS	WinXP	
Machine	Server	
Communication	TCP/IP(V267)	
Version	Version: 5.618 (2005.02.23)	
VGA	Intel(R) 82865G Graphics Controller	Philips 107C
Model	2400BT4(BTNew)[55]	
Overlay blt sup...	Yes	
Calculation of a...		
Check Size	17,320,352	1.13(1802)

Disk Space: [Progress Bar]

Total Space: 104.73 Gb 0 %

Used Space: 104.73 Gb

Disk Space: 200 Gb [Dropdown]

Calculation [Button]

Update Info [Button]

Calculate Frame rate [Button]

OK [Button]

Hard- and software info

Probable recording space free

Disk Info

Recording calculator

Calculate Frame rate

Update Info

## Recording calculator

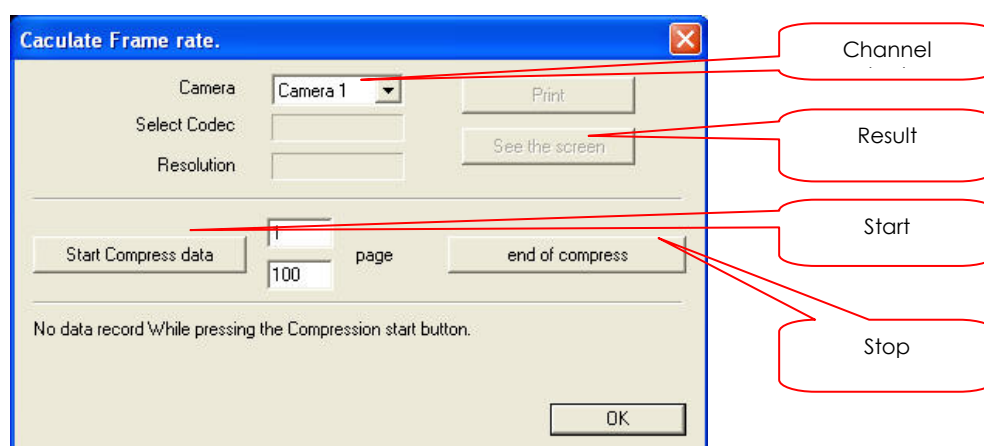
With this calculator, the recording duration can be roughly calculated for a known memory capacity. All recording, resolution and quality settings are taken into account. The upper window shows the probable recording duration after the hard-disk size is selected.

## Disk Info

Click this button to display information on the total space, used space and free space of the current recording disk in a window.

## Calculate Frame rate

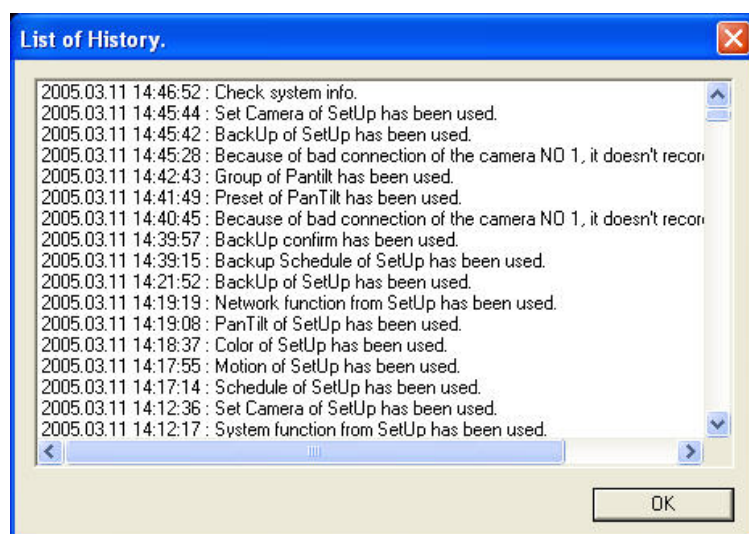
This program calculates the compression rate and single-frame size of individual channels.



First select a camera or channel. Click [Start Compress data] to start the calculation. When the calculation is complete, you can display the picture size and compression with the different Codec variants on the screen. To do this, press [See the screen]. The number of pictures used for the calculation can be changed on the right of the [Start Compress data] button.

## Update History

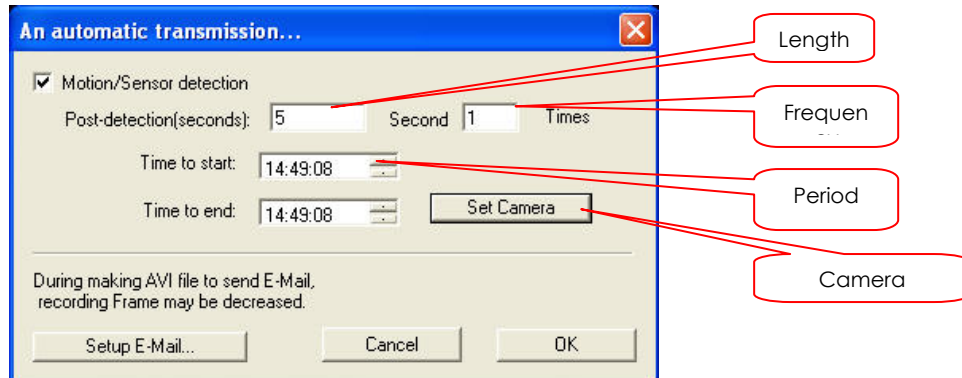
The history log contains the functions used by the system.



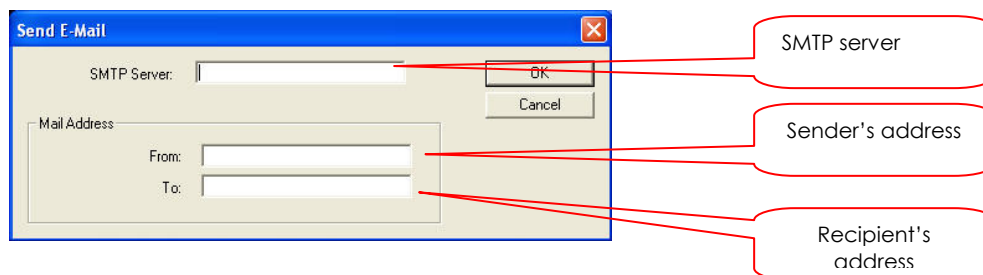


## Sending an automatic e-mail

This function automatically sends an e-mail in the event of motion detection or an alarm. The content of the e-mail is an AVI sequence of any length. The length is defined by the entry under [Post-detection] in seconds, and the frequency by the entry in the field behind. Enter a start and end time to restrict the period of this function (e.g., 22:00 – 07:00).



Click [Setup E-Mail] to make settings for the send process. Enter the address of your mail server, your own address and the destination address.



## Message function

This function permits the sending of network messages to connected network users. Enable a message and select a connected user. Click [Send] to send the message.



## Controlling playback

### Search bar

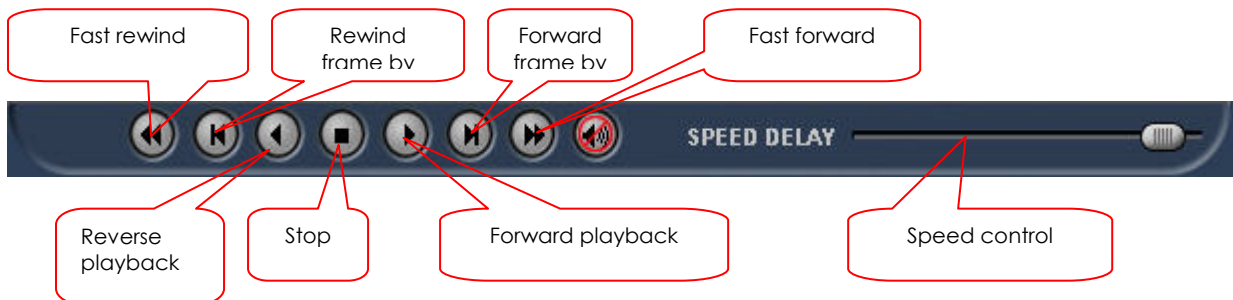
The search bar displays clearly all recorded video data as coloured bars for each channel. Switches are provided on the left for displaying the desired channel in the video area. Four channels are shown at a time in the search bar. With the vertical scroll bar on the left, you can select other channels. If you check [Multi], the division of pictures is adapted automatically. If you click [All], all available channels are displayed with a corresponding picture division in the video area.



To select video data, left-click a time in the search bar. The currently selected time is marked by a vertical line. There are 3 different time divisions available in the search bar: 24 hours, half-hour and minute. You can switch between the time divisions by clicking the time bar label. With the horizontal slider at the bottom of the screen, you can also adjust the search time.

### Playback bar

These functions simplify playback of recorded video data. You can play back data continuously or frame by frame. You can also play back the video pictures forwards or backwards at different speeds.



Click the loudspeaker button to switch off any recorded audio data.

## Event filters

These functions enable you to search recorded video data for different event types. First click [Function] and then [Event].



The event memory (History) logs all events (date, time, camera number, event type). Click a line in the event memory (History). If you click [Search Area], the vertical line in the search bar jumps to this event and displays the respective video image. Click [Release all] to clear the event memory, or click [OK] to close it.

The event filter enables you to search for the following:

- Motion events (pink) via [MOTION]
- Alarm events (blue) via [SENSOR]
- Voice recordings via [AUDIO]
- All events via [All]
- Normal display (yellow) via [NORMAL]

The different events are displayed in corresponding colours in the search bar. Click the blue button at the top of the event filter to close it.

## Date/time search

You can go directly to a time in the search bar. In the calendar, first select the year, month and date.



You can select the hour and minute with the up/down keys. The vertical line in the search bar automatically jumps to the set time.

## Zoom function

Use the zoom function to enlarge the recorded video picture. First select a video channel by left-clicking the video area. You can now change the zoom area in the zoom window with the [+] and [-] buttons. The enlarged picture is displayed in the video area. You can drag the zoom area by pressing and holding down the left mouse button.



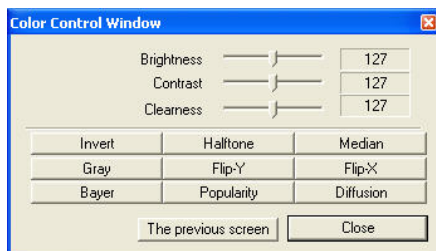
Click the centre button to return the video picture to its original state.

## Views

As described earlier, the division of the video area adapts automatically to the number of channels selected in the search bar (1, 4, 9, 16). If you left-click a video picture in the video area, it changes to single-picture display. If you right-click a video picture, the video area is enlarged to fill the screen; right-click again to return to normal.

## Colour setup

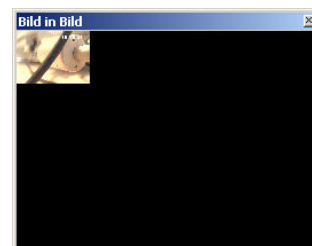
Select a channel for single-picture display. Click [FUNCTION] and then [Color Control]. You can now select between different colour and picture display options.



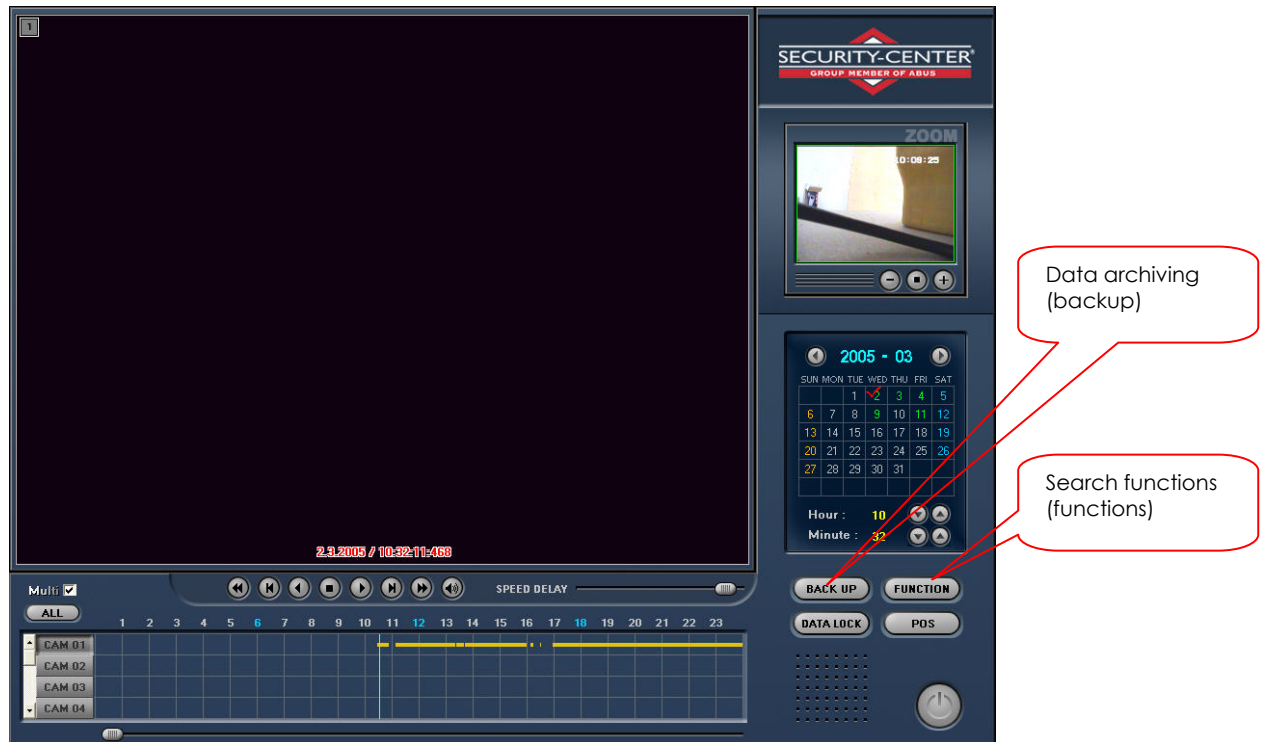
Click on the previous screen to recover the default values.

## Live view

Click [Live] to show all active channels.



## Subfunctions of playback screen



## Back Up

Click [Back Up] to use the data backup function.



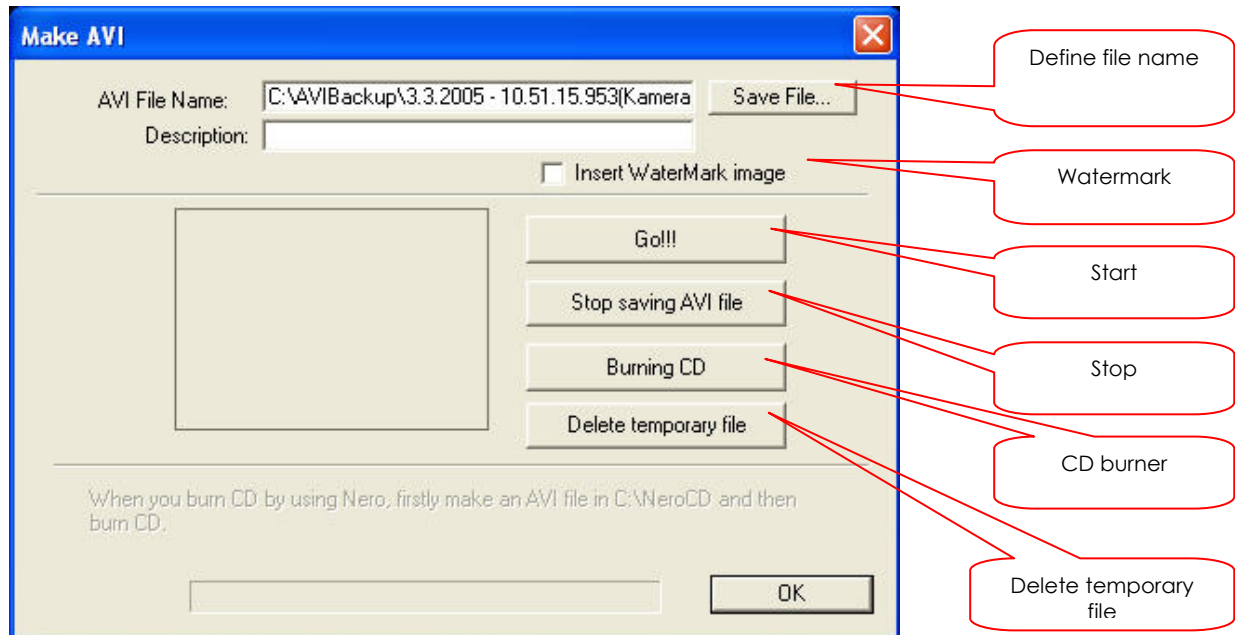
## Image Backup

With this function, you can save individual pictures as BMP, JPEG or YUV files. Click this button and select the storage location. Enter a file name and type. Click [Backup] to save the picture.

## Make AVI

On the playback screen, you can generate AVI sequences for data processing. The difference from generating AVI files via [Setup / Backup] is that here you define only the start time in the video sequence, and you end conversion with [Stop saving AVI file], or else it stops when no more video data is available.

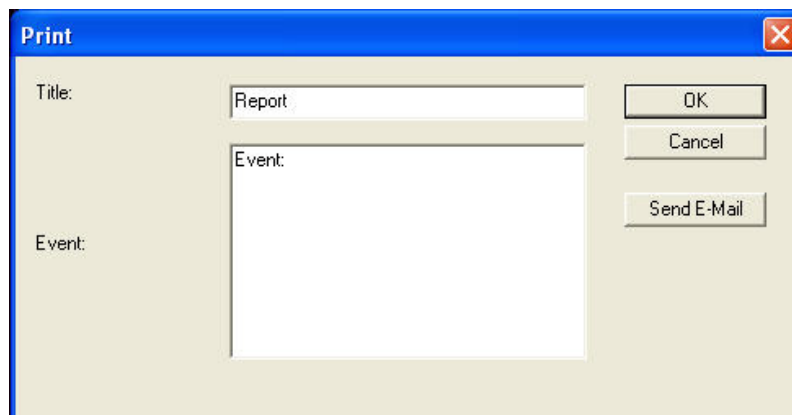
In the video area, click a channel to go into single-picture mode and mark a start time in the search bar. Click [Backup / Make AVI] to open the AVI converter of the playback screen.



Click [Save File...]. The [Save As] dialog box opens. You can accept the suggested file name for the video sequence by clicking [Save]. You can insert a description and a watermark. Click [Start] to start conversion. Click [Stop making AVI file] to stop at any time.

## Print

Here you can print images from video recordings or send them by e-mail. You can start [Backup / Print] from any video view (e.g. 4-screen view). You can enter a title and comment for the image.

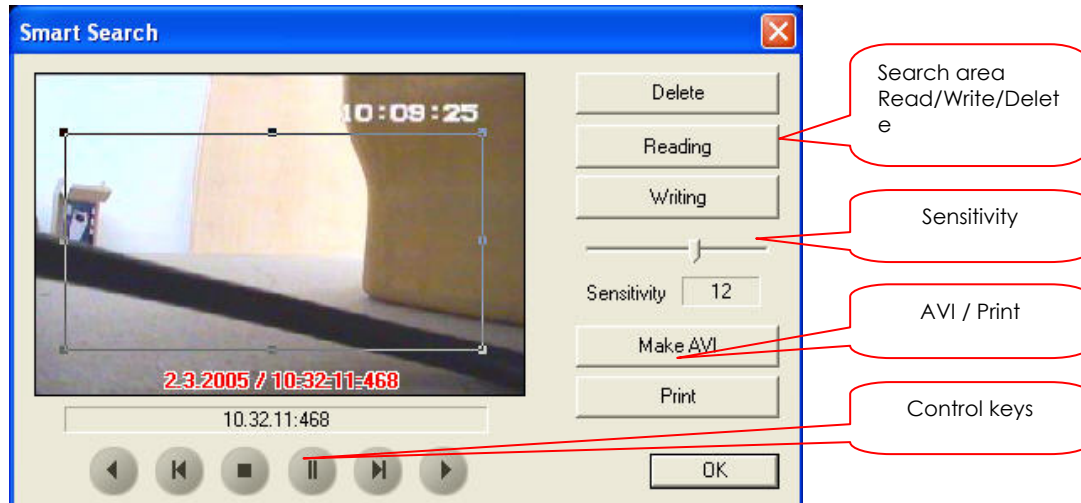


Click [OK] to print the image on a system printer. Click [Send E-Mail] to send the image to an e-mail address. Enter the SMTP server, your e-mail address and a destination address in the respective fields. Close the dialog box with [OK].

## Search functions

### Smart Search

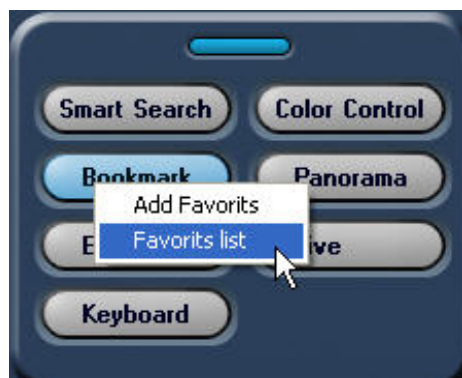
Use this function to search for changes in individual areas. In the search bar, mark the start time for the search. Open the Smart Search dialog box via [FUNCTION] and [Smart Search].



Mark one or more search areas in the video picture and define the sensitivity. The higher the sensitivity, the smaller the changes that are registered. Click [Make AVI] to generate a video sequence of the pictures in which the image has changed. Only marked areas are taken into consideration. Use the control keys to play forwards or backwards continuously or just to the next scene. Click [Print] to print individual pictures.

### Bookmark

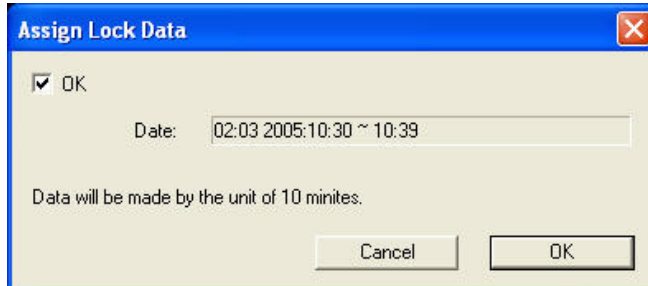
Bookmarks help you to find specific video sections in the recorded data. Go to the desired time in the search bar. Click [FUNCTION] and then [Bookmark]. Buttons appear for adding favorites and displaying a favorites list. Click [Add Favorites], enter a name and confirm with [OK].



Click [Favorites list], select a favorite and click [Go] to access the saved bookmark.

## Data Lock

Use this function in the playback screen to protect data from overwriting. Click a time in the search bar and then click [Data Lock]. If you set the check mark and confirm with [OK], this 10-minute section is locked and marked light yellow in the search bar.



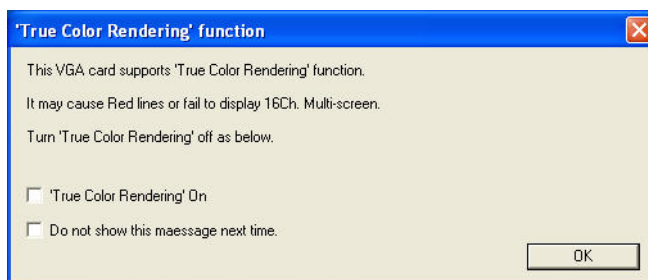
## Network connection

To connect the digital surveillance system to a network or the Internet, you need a physical connection via the LAN adapter or a modem.

### Client Software

The Client software is used for remote monitoring of the server system via TCP/IP or modem. It provides the same scope of functions for analysing recorded data as the server software. The client software is on the CD supplied and must first be installed. Select the [DigiProtect Client] directory and run "setup.exe". Follow the instructions on the screen and complete the installation correctly.

Start the client software by double-clicking the desktop icon. You are asked to disable the "True Color Rendering" function of the graphic card (no check mark set). Confirm with [OK].

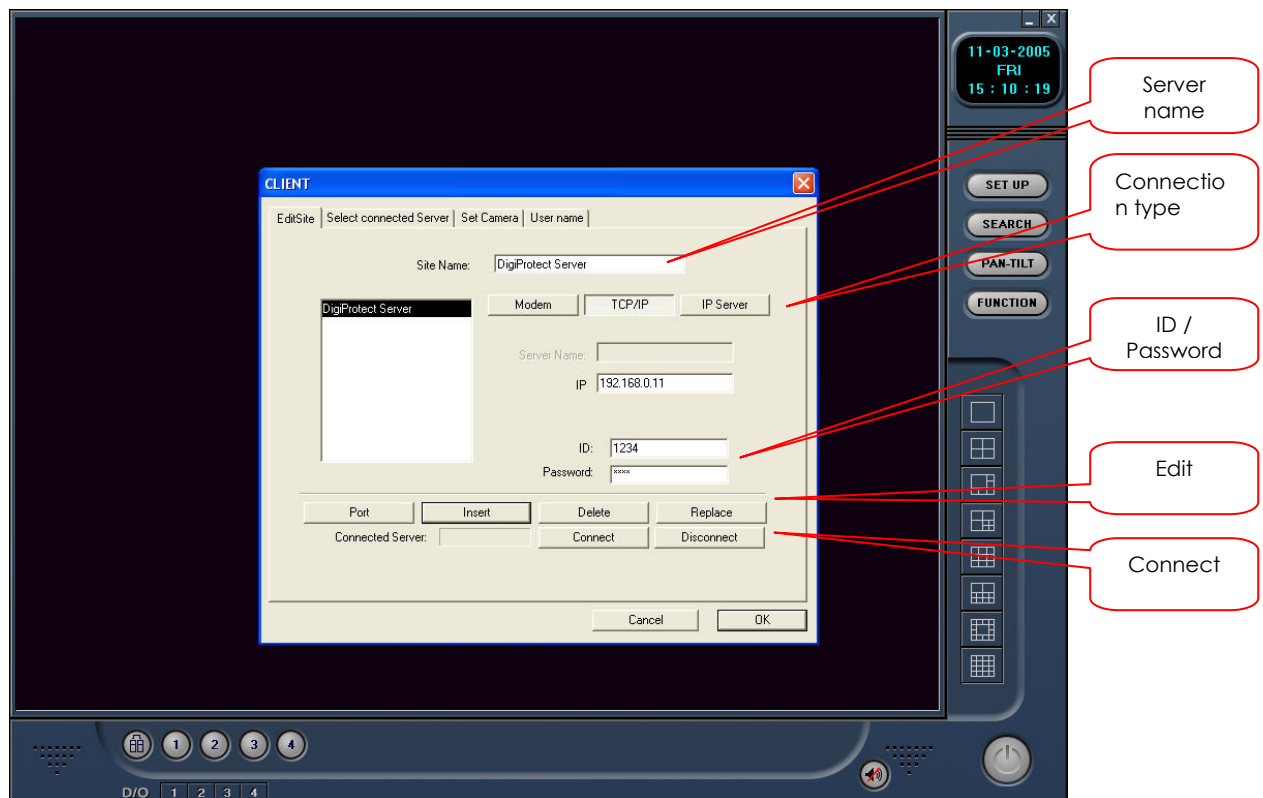


The client software user interface and the connection dialog now open. You can choose between modem, TCP/IP or IP server connection. First enter a name for the connection.

For a LAN (Local Area Network) connection, select [TCP/IP] and specify the IP address of the destination server. For a server logon, you have to enter [ID] and [Password] as registered in the DigiProtect server under [Setup / Network / User]. Click [Port] to change the communication port (default: 2000). The port must be identical for the server and the client. You can edit a connection on the list with [Insert], [Delete] and [replace].

Now click [Connect] to start communication with the server.



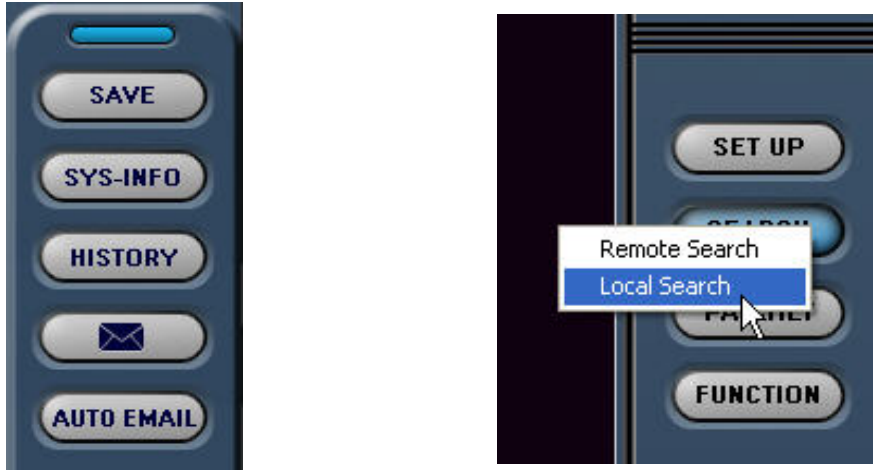


Now click [Connect] and [OK] to start communication with the server or display pictures. For the transmitted data, you now have comprehensive search, analysis and control functions as in the server software.



## Direct recording

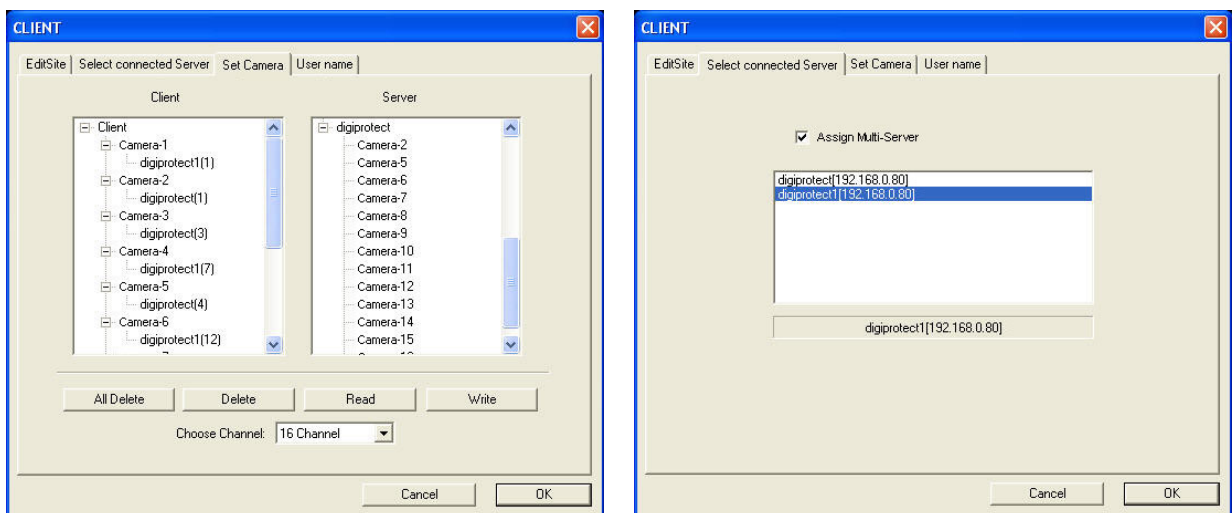
An additional function for saving data on a client system is direct recording. You can save the data locally on the storage drive of the client PC by clicking [FUNCTION] and [Save].



You can access this data by clicking [Local Search]. Click [Remote Search] to access the data recorded on the server.

## Multi-server connections

With the DigiProtect Client software, you can access several servers simultaneously. Up to 16 cameras at 16 locations can be displayed simultaneously. First, connect to the different servers. The [Select connected Server] tab lists all connected servers. Enable [Assign Multiserver]. Click [Set Camera]. With the mouse, drag a camera from the list on the right (Server) to the list on the left (Client). You can also save or load channel combinations. Click [OK] to open the video view.



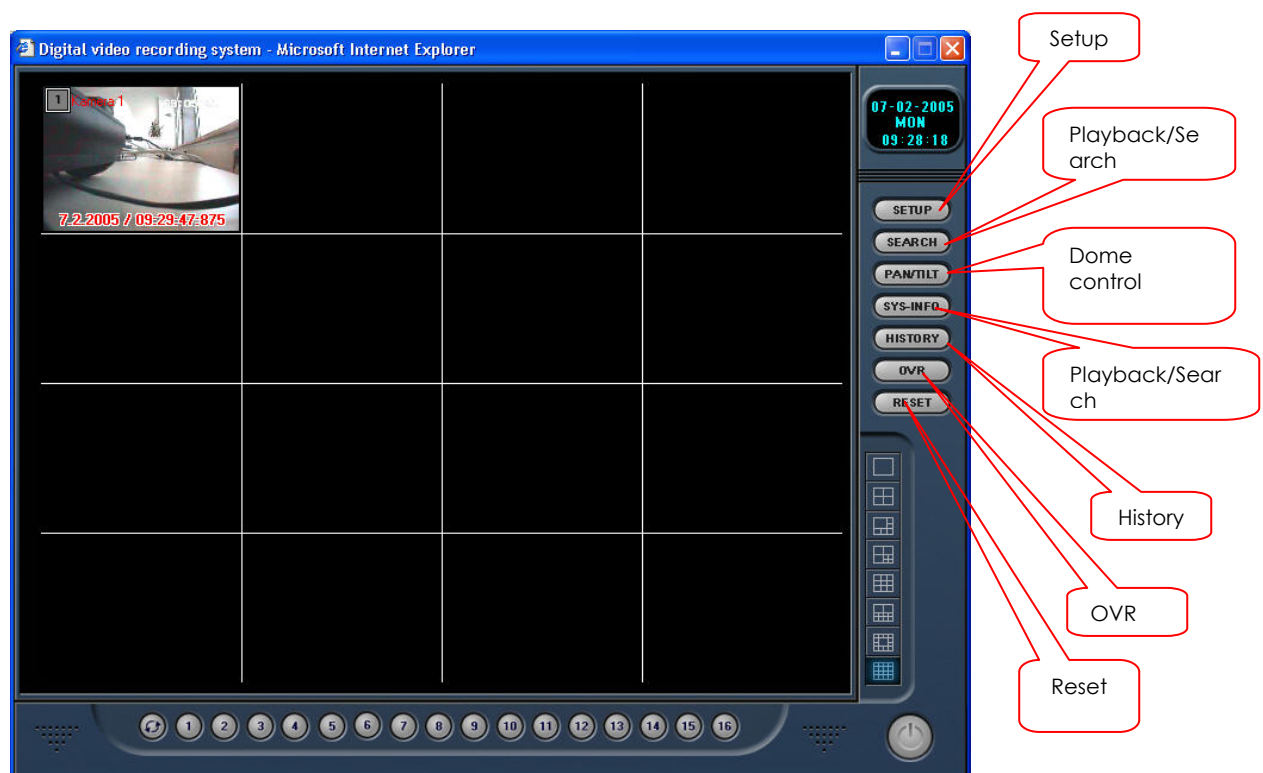
## Web Client

The DigiProtect digital surveillance system integrates a so-called web-server. This provides data to the connected network via the HTTP protocol. This enables you to access the DigiProtect server via the Internet Explorer via the connected network. The web-server is automatically loaded when the server starts.

Open the Internet Explorer of a PC connected to the network or the Internet. Enter the IP address or the address registered via DynDNS in the address line and confirm your input. The web-server of the destination server opens and you are asked to confirm the loading of a plug-in.

. **IMPORTANT:** Your Windows setup may have various functions that prevent loading a plug-in (Firewall, Popup-Blocker, Download ActiveX control elements not permitted).

Enter the data of a user installed in the server program under [Setup / Network] to receive access to the web interface. The web interface opens.



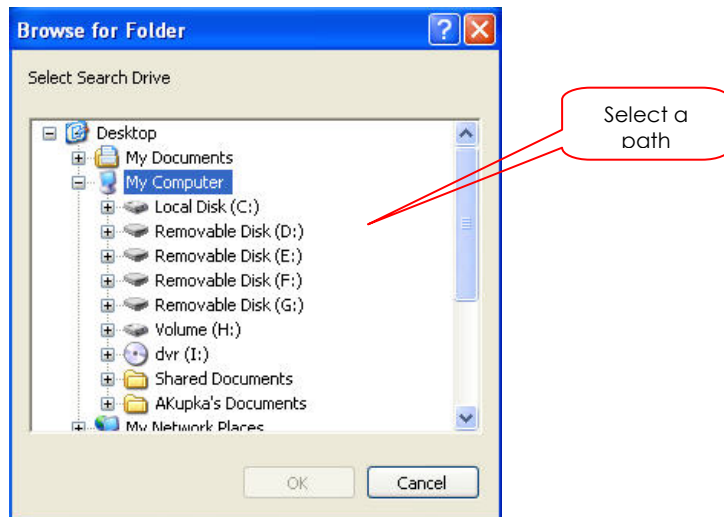
**!** **IMPORTANT:** If the selected user has access to all functions of the server program, he/she can make all server settings via this web interface. You should therefore protect the setup level from unauthorised access by using passwords.

## DigiProtect Searcher

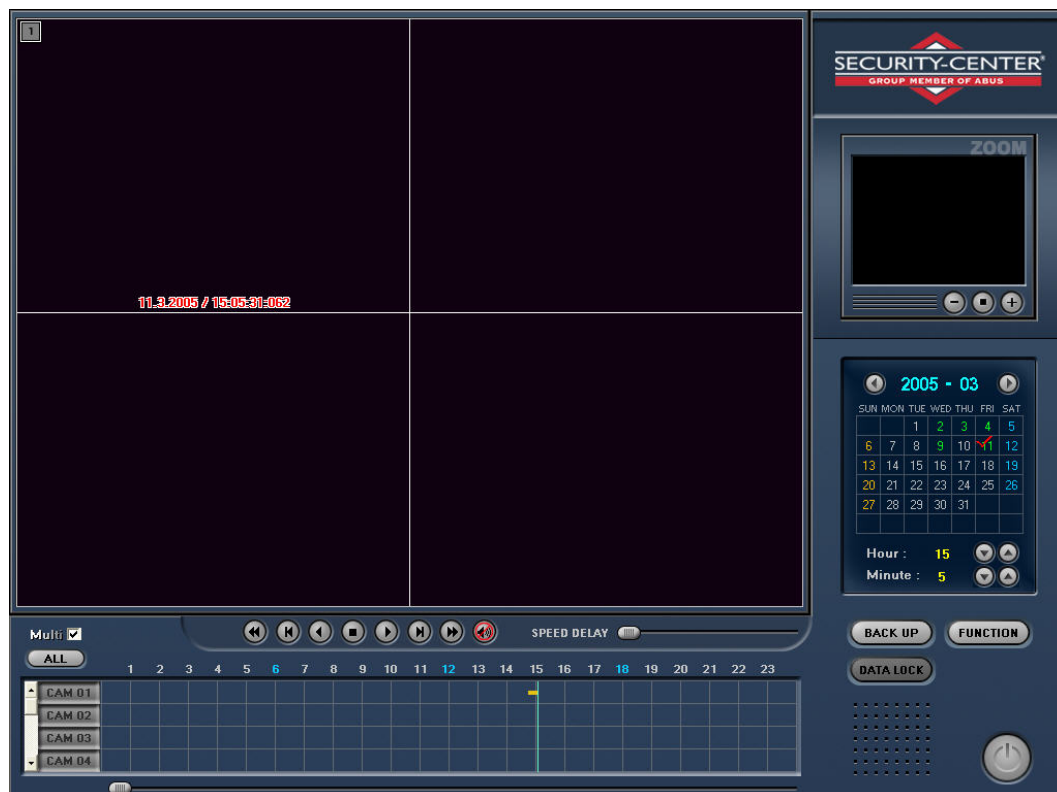
The DigiProtect Searcher is on the software CD. With this program, you can analyse recorded and saved surveillance data on any PC.

Select the [DigiProtect Client] directory on the software CD supplied and run “setup.exe”. Follow the instructions on the screen and complete the installation correctly. Now start the Searcher via [DigiProtect Server] on the Windows desktop.

You are asked to specify a path containing the saved data. Confirm with [OK].

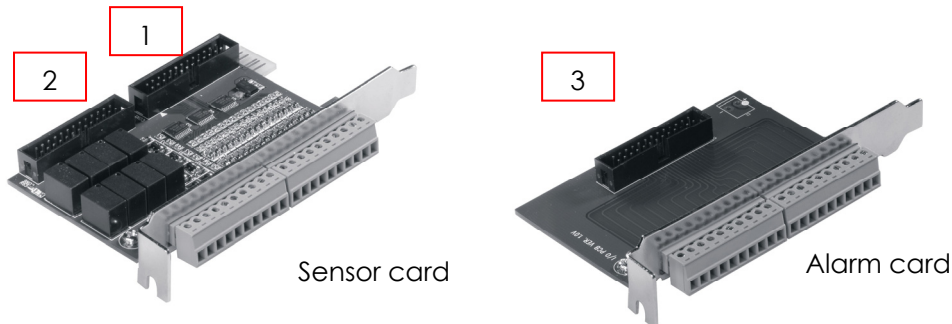


The Searcher user interface contains all functions of the playback screen. You can search for data, print pictures, make AVI files or save pictures, etc.



## Installing the alarm I/O card

The I/O card (optional, Art. No. TV8812) enables you to connect up to 16 sensors to the surveillance system. The I/O card also has 8 relay outputs for connecting external equipment. The I/O card needs 2 PCI sockets in your PC.



Switch the PC off and pull the mains plug out. Open the PC cabinet. Connect the sensor card with the alarm card via connectors 2 and 3. Use the short flat cable provided. Connect the recorder card to the sensor card (connector 1) using the second flat cable. Now plug the sensor card into a free PCI socket and the alarm card into any free socket. Please use the provided power connector to connect the sensor card with the power supply of the PC. Close the PC cabinet and switch the PC on.

The pin connections of the alarm and sensor cards is shown on the alarm card.

Alarm card	Sensor card
NO8	GND
COM8	GND
NO7	GND
COM7	GND
NO6	16
COM6	15
NO5	14
COM5	13
NO4	12
COM4	11
NC4	10
NO3	09
COM3	08
NC3	07
NO2	06
COM2	05
NC2	04
NO1	03
COM1	02
NC1	01

### Alarm card:

Up to 8 outputs (24V DC, 1A) can be connected; 1-4 can be switched to NO (Normally Open) and NC (Normally Closed) and 5-8 only to NO.

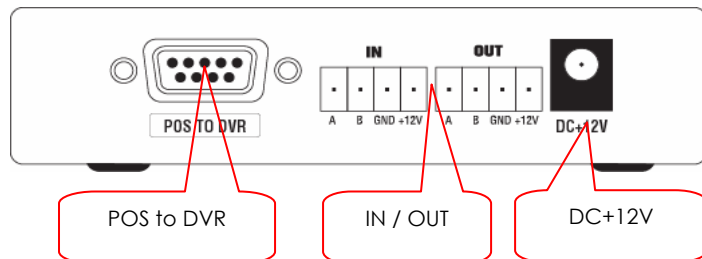
### Sensor card:

You can connect 16 sensor inputs to the system. The pin contacts can be set to NO or NC in the Server software setup.

## POS function

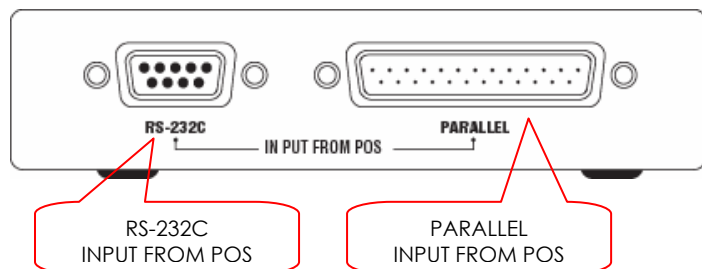
With the POS function of the DigiProtect system, you can display and save the transaction data of a POS system and its video pictures. The data is shown on the live video screen and can be analysed and saved via the playback screen. The format used is Excel.

### Connecting the POS box



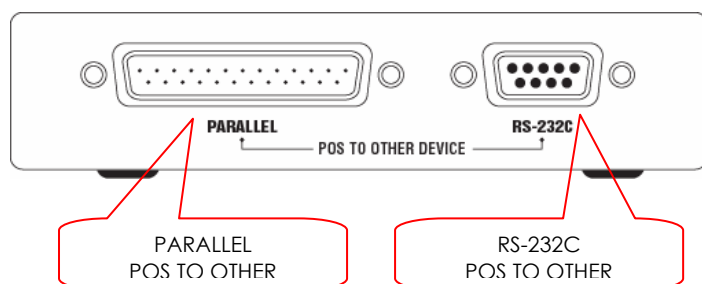
POS to DVR: Connection between POS box and surveillance system (9 pin RS232C)

IN / OUT: RS485 connection to or from another POS box



RS-232C: RS232C input signal from POS system (direct link)

PARALLEL: Parallel connection from POS system



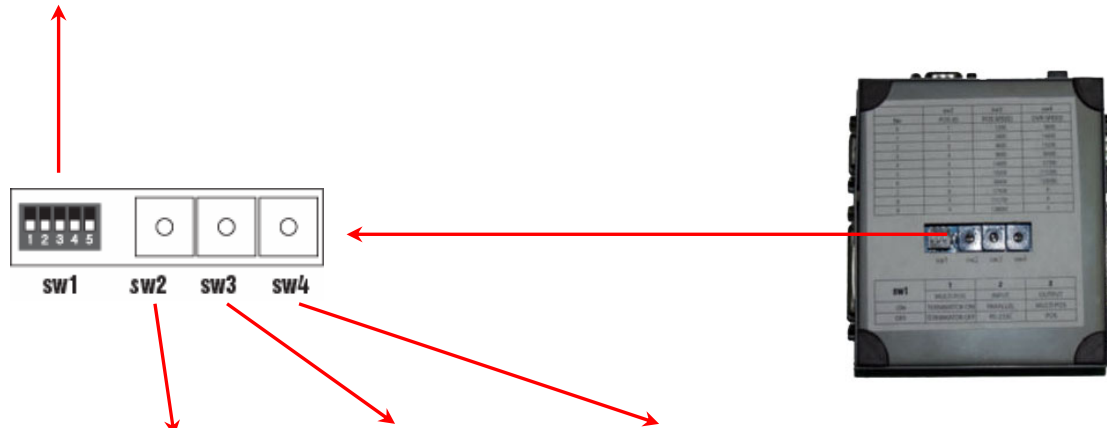
PARALLEL: Parallel-Anschluss zu anderer POS-Box

RS-232C: RS-232C-Ausgang zu anderer POS-Box (Cross-Link)

## Setting up the POS box

The following switch positions are shown on the base of the POS box:

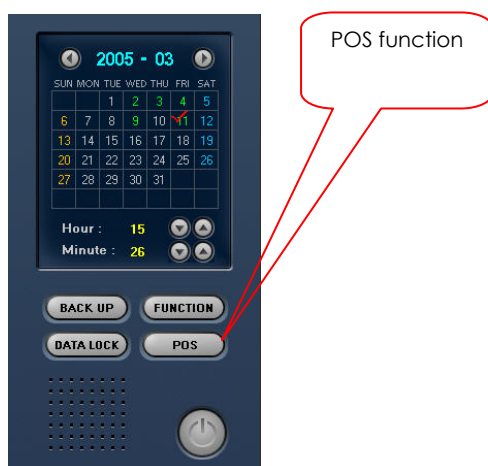
SW1	1	2	3	4	5
	Other POS Box		MULTI POS	INPUT	OUTPUT
ON	Terminal ON		Terminal ON	PARALLEL	MULTI-POS
OFF	Terminal OFF		Terminal OFF	RS-232C	POS



	SW2	SW3	SW4
No.	POS ID	POS Speed	DVR Speed
0	0	1200	9600
1	1	2400	14400
2	2	4800	19200
3	3	9600	38400
4	4	14400	57600
5	5	19200	115200
6	6	38400	128000
7	7	57600	X
8	X	115200	X
9	X	128000	X

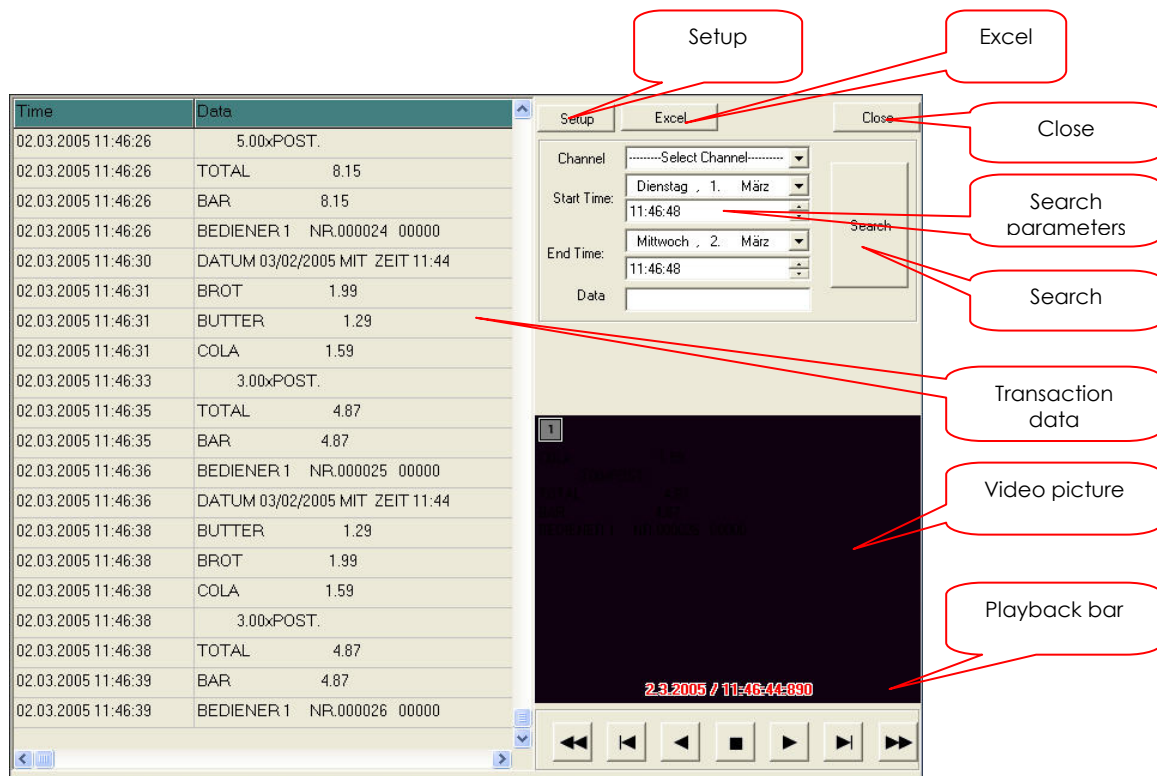
## Setup in surveillance system

Start the POS function on the playback screen.

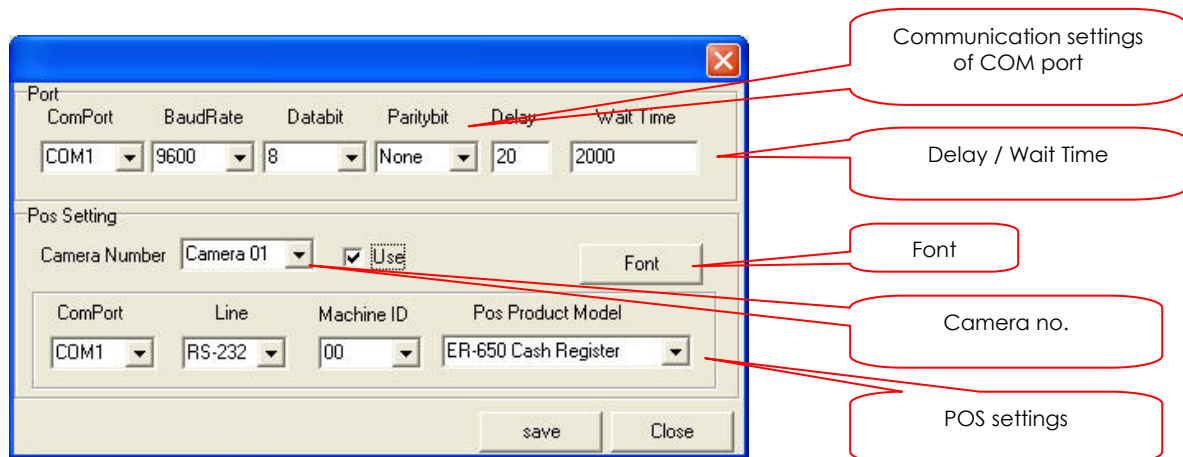




The POS screen opens.



Click [Setup].



Set the correct communication parameters of the COM port. [Delay Time] sets the delay time for displaying the data of each article after entry in the POS system. [Wait Time] defines the delay time for the transmission from the POS system to the surveillance system for the accounting of all articles.

Select a camera that you want to associate with a specific POS ID. Enter the connection data and the type of POS system. The ER-650 Cash Register supports following protocols: SAM SRP-100 (Samsung), SAM SRP250, SAM SRP-300, SAM SRP 350, CITIZEN 3550/3551/810/230, EPSON TM-T88-2/U200/U295/U300/325/375/STAR SP200/STAR SP298/STAR SP300/STAR TSP200. Then close the window.



### Analysing transaction data

The POS data is automatically displayed in the video picture of the respective camera. To analyse the data, change to the POS screen under [Search / POS].

The transaction data is shown on the left with date and time.

Click a data row: the video screen shows the associated video picture. Play back the video data using the buttons in the playback bar. If necessary, you can save the video data in the playback screen as described above.

You can search for specific data via the search mask.

The screenshot shows a search mask window with the following fields and callouts:

- Channel:** A dropdown menu with the text "-----Select Channel-----". A red callout bubble labeled "Channel no." points to this field.
- Start Time:** A date and time selector showing "Dienstag , 1. März" and "11:46:48". A red callout bubble labeled "Period" points to this field.
- End Time:** A date and time selector showing "Mittwoch , 2. März" and "11:46:48". A red callout bubble labeled "Search string/data" points to this field.
- Data:** An empty text input field.
- Search:** A button located to the right of the time fields.
- Buttons:** At the top of the window are three buttons: "Setup", "Excel", and "Close".

Define a channel and period for the search. Under [Search string/Data], enter the text to be searched for (e.g., article name, assistant). Click [Search]. All found data is shown in the list on the left.

You can export the data in Excel format. Excel must first be installed in the surveillance system (not part of the scope of delivery).

## New Functions – Version 6.20x

The new functions – card extension, dual-monitor and hybrid function – are available for card models TV8800, TV8801, TV8802, TV8803, TV8804, TV8805, TV8806 and TV8807 only.

### Card extension

The number of channels of the Digi-Protect System can be doubled in this version – i.e., if for example a 4-channel realtime card is already installed in the system, a second card of the same type (4-channel realtime) can be added to extend the number of channels to eight (realtime). A free PCI slot is needed for the second PCI card.

Procedure:

1. First uninstall the current Digi-Protect software.
2. Switch off the PC, disconnect it from the mains electricity supply, and open the PC.
3. Install the second PCI recording card of the same type in a free PCI slot and close the PC.
4. Start the PC and install the necessary drivers. The number of drivers has doubled due to the additional PCI card.
5. Now install the current software (V6.20x) matching your previous recording card.
6. After starting the Digi-Protect software, select “Setup / Standard / Set Channel” and then select the required number of channels.

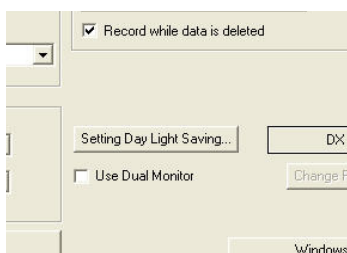
### Dual-monitor function

The dual-monitor function allows you to connect a secondary monitor to the Digi-Protect surveillance system. To make this possible, a graphics card with 2 monitor outputs must be installed in the system. In the Windows display properties, the secondary monitor output must be enabled – i.e., the Windows desktop must be extended to the secondary monitor.

For further questions on enabling the secondary monitor output on your graphics card, contact the graphics card manufacturer.

### Functions:

1. If a graphics card with 2 monitor outputs is installed in the system, you can now enable the dual-monitor function in the Digi-Protect Software under [Setup / Standard].



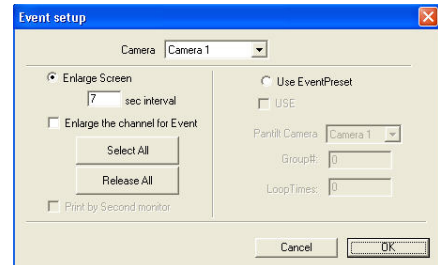
**IMPORTANT:** If no graphics card with 2 monitor outputs is installed but the Dual-Monitor function is enabled, you may have problems with display and stability.

2. Following activation, the channels are displayed as on the main monitor (e.g., quad view). You can still choose between different views.
3. If necessary, you can click the Minimize button to minimize the view on the secondary monitor.



Click the dual-monitor icon on the main monitor to restore the original view on the secondary monitor.

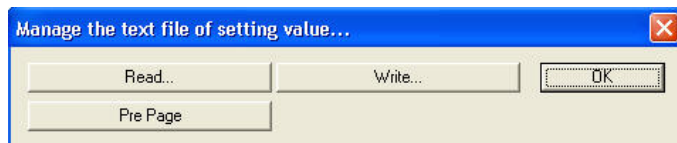
4. To hide the toolbars, right-click while the mouse pointer is in the secondary monitor area. Click again to restore the view.
5. The dual-monitor function now offers you a further feature in the event of anything happening. If an event occurs (motion, alarm, ...), the corresponding channel can be shown full-screen on the secondary monitor. Under [Setup / Record / Event setup], select "Print by Second monitor". The corresponding channel is now shown full-screen on the secondary monitor but not full-screen on the main monitor.



6. Click the [Change Primary Secondary] button in the [Setup / Standard] menu to switch between the main monitor and the secondary monitor if required.

### Saving the configuration file

This function allows you to save the complete configuration of the Digi-Protect system and reactivate it when required. Under [Setup], click [Manage the text file of setting value ...] at the bottom of the setup screen.



Click the [Write...] button to save the configuration file of the system. The file name extension is "\*.sat". Enter a file name and click "Save". The configuration is now saved.

You can load a configuration file by clicking [Read...].

### Hybrid function

The hybrid function enables you to integrate DIGILAN network cameras in the Digi-Protect system. Only TV7200 and TV7201 cameras and the video-stream of the TV7202 video server are currently supported (no Dome control function).

An enabled web camera channel is connected to the respective BNC video input. The number of channels (BNC + web cameras) cannot exceed the max. channel capacity of the PCI recording card.

The following figure shows the [Web Camera] menu. Open this menu by clicking the [Setup] button.

On the left, you can select a channel for the incoming web camera signal.

Enter camera access data on the right (enabling, IP address, login, password, port).

At the bottom are options for transmission and storage type.

**Using Va Camera:** Set the check mark to use a web camera on this channel.

**IP Address:** Address or domain name of the web camera. This address must be configured in the web camera or defined automatically by a DHCP server.

**Login:** The login name for the administrator is required; for DigiLan web cameras, it is always "root".

**Password:** Enter the administrator password.

**Port:** Enter the http port number used. This port must be configured in the web camera.

There are further options under the preview picture.

**Capture:** The web camera is shown on the live screen. The recording is made in http mode at 1 frame per second. You can delay data display on the screen. The camera is shown in the same way on the secondary monitor.

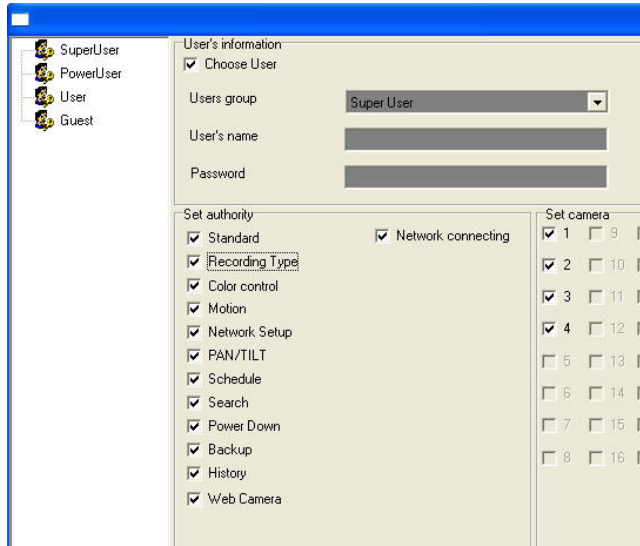
**Streaming:** The web camera is shown on the live screen, with camera information at the top and bottom. No recording is made. The camera is not shown on the secondary monitor. The max. possible resolution is 352x288 pixels.

**Capture + Streaming:** The camera is shown on the live screen and on the secondary monitor. The camera signal is prepared for recording. Select the recording type under [Setup / Record] (e.g. motion-triggered recording). The same recording types as for analogue cameras are available. The max. possible resolution is 352x288 pixels.

**Protocol:** Select between UDP (no backup data), TCP (with backup data) and HTTP (single-frame mode, 1 frame/sec.).

## Password manager

Note the following important changes to the password manager in Version 6.20x. The 3 areas (for primary password, user setup [Setup / Standard] and network user settings [Setup / Network]) are now combined in a single password manager under [Setup / Standard / Set Password]. The password manager now looks like this:



To install a user:

1. First click [Add] on the left or right-click the left of the screen.



2. Select a user group type: Super User, Power User, User, Guest. The user groups have different user permissions. You can change these permissions at any time later.
3. Enter a user name, a password and the password confirmation. Click [Apply].
4. The following table shows the different user permissions. Set the check-mark to use a permission.

Permission	Meaning
Standard	Permission for [Setup / Standard] menu item
Recording Type	Permission for [Setup / Record] menu item
Color Control	Permission for [Setup / Color control] menu item
Motion	Permission for [Setup / Motion] menu item
Network Setup / Network	Permission for [Setup / Network] menu item
PAN/TILT	Permission for [Setup / PAN/TILT] menu item
Schedule	Permission for [Setup / Schedule] menu item
Search / Search	Permission for access to search screen
Power Down	Permission for switching off system
Backup	Permission for [Setup / Backup] menu item
History	Permission for [Setup / History] menu item
Web Camera / Web	Permission for [Setup / Web Camera] menu item

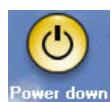
Camera	
Set Camera	Enabled cameras are visible to the user.

Select the permissions required for the user and then click [Save] and [Close].

For every system access, whether direct at the PC or using client software / web client, a valid user name and password now have to be entered.

### Power down mode

After you click the “Power down” icon on the playback screen, the following window is displayed in Version 6.20x: You now have the following options:



The software and the PC are completely shut down.

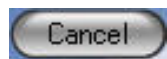


Press to change user.

system.



Click to reboot the

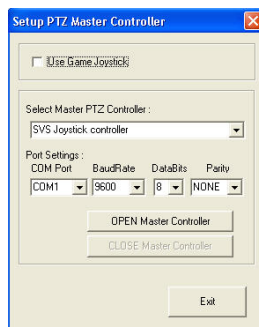


Click to cancel.



### Joystick control

Dome (PTZ/PanTilt) cameras can now be controlled using a joystick in this version (tested models: Logitech® Extreme™ 3D Pro, Logitech® Attack™ 3). The function was tested using the Highspeed TV7090/TV7094 motor-dome camera.



Connect the joystick to a USB port of your PC. Now enable “Use Game Joystick” under [Setup / PAN/TILT / Master Controller...].

If activation is successful, an info box opens. This box opens at every software restart and must be confirmed.

The following table shows the control functions of the joystick.

### Joystick control commands

Button + joystick action	PanTilt camera function
Button #1 + forwards	Up
Button #1 + backwards	Down
Button #1 + left	Left
Button #1 + right	Right
Button #1 & #2 + forwards	Zoom in
Button #1 & #2 + backwards	Zoom out
Button #1 & #2 + left	Zoom in
Button #1 & #2 + right	Zoom out
Button #3	Focus near
Button #4	Focus distant
Button #5	Close IRIS
Button #6	Open IRIS
Button #7	Select "camera channel"
Button #8	Select "Go to preset number"
Button #9	Focus
Button #10	Auto IRIS
Button #11	Auto pan
Button #12	Stop auto pan (not Logitech® Attack™ 3)

### E-mail authentication

If authentication is required for sending e-mails, you can set this in the respective e-mail function dialog boxes:

- [Function / Auto E-mail / Setup E-Mail... / Need Authentication... / Setting...]
- [Setup / Backup / Send E-Mail... / Need Authentication... / Setting...]

Enter the access name and the password of the e-mail account.