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1 Introduction

1.1 Summarization

Thank you for choosing our digital video capture cards.

4 Channel, 8 Channel and 16 Channel cards adopt MPEG4 compression format, enable maximum 16 channels real-time or share-time surveillance. Our cards are mature and cost-effective products that should be your ideal choices. They enable synchronous audio and video compression and transmission, with their powerful compression rate and network transmission function, they are widely used in banks, smart communities, traffic management units, medical systems, educational systems, armed forces and so on.

In this manual, you will learn how to install the hardware and driver (software), and how to setup the systems of this range of products. Please make sure your operations with the products are strictly in accordance with the manual, so as to keep the stability of the digital surveillance systems.

The following are standard functions of the products:

(1) Schedule record mode

Users can choose any periods in a day to record and set up record modes, i.e. sensor alarm record, motion detection record, manual record, Schedule Record.

(2) Motion detection mode

Motion detection areas are adjustable, and maximum 16 areas for each channel. Users can also set motion detection sensitivity for each channel. The system begins to record only when detected motion changing rate excesses the user-set sensitivity, and stops recording after a period of time, adjustable by users, when no motion is detected, which effectively saves HDD source.

(3) Sensor alarm record mode

With external alarm board, the system enables alarm input and output, which improves the security and extends the practicability.

(4) Recycling record mode

Users can set recording storage sequence for HDD partitions. The recording storage will automatically jump to the next partition when it's full. In case all the partitions are full and recycling record mode has been enabled, the former recorded data will be covered by new data. Users can also set HDD minimum storage alarm. Then once the present storage space is less then the minimum storage and recycling record mode hasn't been enabled, the record will automatically stop.

(5) P.T.Z control function

Support a number of decoders. Users can control multiple speed domes and integrative cameras, including pan, tilt, zoom, focus and iris adjustment for P.T.Z devices.

(6) Users management

Different users have different purviews, user names and passwords, so as to ensure system security.

(7) Multi-channel display

Support different multi-channel display modes, full screen display and auto dwell display.

(8) Watch dog function

The latest 16 Channels has watchdog function. In case SuperDVR driver or windows system is frozen, the watchdog will restart the computer and login SuperDVR system again automatically.

(9) One PC support 1 to 4 cards of the same model, the maximum frame rate can be 200 fps, and 16 channels at most.

(10) Support CIF standard resolution, PAL 352×288, NTSC 320×240

(11) Image color adjustable for each channel, including contrast, lightness, hue and saturation.

(12) MPEG4 compression format, greatly reduce HDD usage

(13) Powerful video playback functions, including playback, pause, stop, fast-forward, single-frame play and image capture.

(14) Support advanced search mode. Users can search by date/time, camera, record mode, and random combination of the three methods.

(15) Convenient to extend system functions by software upgrade.

(16) Supply multiple languages, including Chinese, English, and other customized languages.

(17) CPU and storage resources saving by advanced technology

(18) Remote Surveillance and P.T.Z control through LAN, Intranet, and Internet.

(19) Support both PAL and NTSC format.

(20) User-friendly graphical user interface.

1.2 System Requirements

Applicable Platform:

Operation System: Window2000 / XP

DirectDraw: Microsoft DirectX 9.0

VGA cards: GeForce2, GeForce4, FX5200, ATI Rage128

Chip Set: Intel Series P3 / P4.

The following motherboards are well compatible with our TDF series capture cards:

GIGA: GA-8IRXI (Intel 845D)

GA-8IE2004 (Intel 845E)

GA-6OXT (Intel 815EP)

GA-8PE800 (Intel 845PE)

GA-8IPE1000-G (Intel 865PE)

ASUS: P4S8X (Sis 648)

TUSL2-C (Intel 815EP)

P4P800 (Intel 865PE) MSI: MS-6566E (Intel 845E) Intel845DDA+(Intel 845E)

Recommended System:

CPU: Intel PIII processor, minimum 800MHz Memory: minimum 256M VGA card: GeForce2, AGP minimum 32M Operation System: Windows2000 / XP Network Card: 10/100M Network Adaptor Special Notice:

After the system has run for a long time, the system will create a lot of data fragments that may cause system runs slowly. It's recommended to make disk defragmenter every 10 to 30 days.

1.3 System Specifications

Format: NTSC / PAL Resolution: 352×288 (PAL) / 320×240 (NTSC) Maximum Frame rate per channel: 25 fps (PAL), 30 ftp (NTSC) Screen set: resolution 1024×768, color quality 16 bits or 32 bits Compression code rate: 50kbps – 1.2Mbps Data format: MPEG4

2 Hardware installation

2.1 Install Video Capture Card Hardware

2.1.1 Install 4CH Card Hardware



Fig 2.1 4CH Video Capture Card

Pin Port	Define	Interpret
1PIN	5V	Power Source (5V)
2PIN	ALARM_COM	Alarm COM
3PIN	ALARM_NC	Alarm Normal Close
4PIN	ALARM_IN1	Alarm Input 1
5PIN	ALARM_NO	Alarm Normal Open

below:

ALARM_IN2	Alarm Input 2
GND	Ground
ALARM_IN3	Alarm Input 3
GND	Ground
ALARM_IN4	Alarm Input 4
	GND ALARM_IN3 GND ALARM_IN4

Table 2.1 4CH card pins

2.1.2 Install 8CH Card Hardware



Fig2.2 8CH Video Capture Card

The functions, definitions of J1, J2, J3 and J4 pin groups are as



Fig2.3 Pin group J1 of 8CH Card

J1 pin group mainly does as alarm input and output connector. The definition of the pins are as below in the table:

Pin	Define	Interpret
Port		
1PIN	ALI1	Alarm Input 1
2PIN	ALI2	Alarm Input 2
3PIN	ALI3	Alarm Input 3
4PIN	ALI4	Alarm Input 4
5PIN	5V	Power
		Source (5V)
6PIN	ALO1	Alarm Output
		1
7PIN	ALO2	Alarm Output
		2
8PIN	ALO3	Alarm Output
		3
9PIN	ALO4	Alarm Output
		4

Table2.2 Pins definitions of J1 for 8CH CARD



Fig2.4 Pin group J2 of 8CH Card

Pin group J2 mainly does as video and audio input connector.

Pin Port	Define	Interpret
PIN	VI1	Video Input 1
2PIN	VI2	Video Input 2
3PIN	VI3	Video Input 3
4PIN	VI4	Video Input 4
5PIN	VI5	Video Input 5
6PIN	VI6	Video Input 6
7PIN	VI7	Video Input 7
8PIN	VI8	Video Input 8
9PIN	AI1	Audio Input 1
10PIN	Al2	Audio Input 2
11PIN	AI3	Audio Input 3
12PIN	Al4	Audio Input 4
13PIN	AG	Ground
14PIN	AG	Ground
15PIN	AG	Ground
16PIN	AG	Ground
17PIN	AG	Ground
18PIN	AG	Ground
19PIN	AG	Ground
20PIN	AG	Ground
21PIN	AG	Ground
22PIN	AG	Ground
23PIN	AG	Ground
24PIN	AG	Ground
25PIN	AG	Ground

The definitions of J2 pins are as below:

Table2.3 Pins definitions of J2 for 8 Port Card

(3) J3

J3	9	7	5	3	1	
	10	8	6	4	2	

Fig2.5 Pin group J3 of 8CH Card

The definitions of J3 pins are as below in the table:

Define	
Dellue	Interpret
ALI1	Alarm Input 1
ALO1	Alarm Output 1
ALI2	Alarm Input 2
ALO2	Alarm Output 2
ALI3	Alarm Input 3
ALO3	Alarm Output 3
ALI4	Alarm Input 4
ALO4	Alarm Output 4
AG	Ground
5V	Power Source (5V)
	ALI1 ALO1 ALI2 ALO2 ALI3 ALO3 ALI4 ALO4 AG 5V

Table2.4 Pins definitions of J3 for 8CH Card

(4) J4

J4													
	23	21	19	17	15	13	11	9	7	5	3	1	
	24	22	20	18	16	14	12	10	8	6	4	2	

Fig2.6 Pin group J4 of 8CH Card The definitions of J4 pins are as below in the table:

Pin Port	Define	Interpret
1PIN	VI1	Video Input 1
2PIN	AG	Ground
3PIN	VI2	Video Input 2
4PIN	AG	Ground
5PIN	VI3	Video Input 3
6PIN	AG	Ground
7PIN	VI4	Video Input 4
8PIN	AG	Ground
9PIN	VI5	Video Input 5
10PIN	AG	Ground
11PIN	VI6	Video Input 6
12PIN	AG	Ground
13PIN	VI7	Video Input 7
14PIN	AG	Ground
15PIN	VI8	Video Input 8
16PIN	AG	Ground
17PIN	Al1	Audio Input 1
18PIN	AG	Ground
19PIN	AI2	Audio Input 2
20PIN	AG	Ground
21PIN	AI3	Audio Input 3
22PIN	AG	Ground
23PIN	Al4	Audio Input 4
24PIN	AG	Ground

Table2.5 Pins definitions of J3 for 8CH Card

Special Notes:

1. The functions of J1 and J3 are the same, while J3 has one more Ground Pin than J1 $\,$

2. The functions of J2 and J4 are the same, while J4 has one more Ground Pin than J2 $\,$

This is useful when there is no J1 nor J2 connector, or both / any one of J1 and J2 connector are damaged, then users can utilize J3 and J4 to take the place of J1 and / or J2.

2.1.3 Install 16CH Card Hardware



Fig2.7 16CH Video Capture Card circuit link for Watchdog function

Pin	Define	Interpret	Pin Port	Define	Interpret
Port					
Pin1	Alarm_in	Alarm Input 1	Pin21	Alarm_out5	Alarm Output 5
	1				
Pin2	Alarm_in	Alarm Input 2	Pin22	Alarm_out6	Alarm Output 6
	2				
Pin3	Alarm_in	Alarm Input 3	Pin23	Alarm_out7	Alarm Output 7

The pin definitions of 16CH Card are as below:

	3				
Pin4	Alarm_in	Alarm Input 4	Pin24	Alarm_out8	Alarm Output 8
	4				
Pin5	Alarm_in	Alarm Input 5	Pin25	Alarm_out9	Alarm Output 9
	5				
Pin6	Alarm_in	Alarm Input 6	Pin26	Alarm_out10	Alarm Output 10
	6				
Pin7	Alarm_in	Alarm Input 7	Pin27	Alarm_out11	Alarm Output 11
	7				
Pin8	Alarm_in	Alarm Input 8	Pin28	Alarm_out12	Alarm Output 12
	8				
Pin9	Alarm_in	Alarm Input 9	Pin29	Alarm_out13	Alarm Output 13
	9				
Pin10	Alarm_in	Alarm Input 10	Pin30	Alarm_out14	Alarm Output 14
	10				
Pin11	Alarm_in	Alarm Input 11	Pin31	Alarm_out15	Alarm Output 15
	11				
Pin12	Alarm_in	Alarm Input 12	Pin32	Alarm_out16	Alarm Output 16
	12				
Pin13	Alarm_in	Alarm Input 13	Pin33	Alarm_Com	Alarm COM
	13				
Pin14	Alarm_in	Alarm Input 14	Pin34	Alarm_NO	Alarm Normal Open
	14				
Pin15	Alarm_in	Alarm Input 15	Pin35	Alarm_NC	Alarm Normal
	15				Close
Pin16	Alarm_in	Alarm Input 16	Pin36	GND	Ground
	16				
Pin17	Alarm_ou	Alarm Output 1	Pin37	GND	Ground
	t1				

Pin18	Alarm_ou	Alarm Output 2	Pin38	5V	Power Source (5V)
	t2				
Pin19	Alarm_ou	Alarm Output 3	Pin39	Not Used	Not Used
	t3				
Pin20	Alarm_ou	Alarm Output 4	Pin40	Not Used	Not Used
	t4				

Table2.6 Pins definitions of 16CH Card

Note:

Before installing the Video Capture Card hardware in PCI port of the motherboard, make sure you've installed Microsoft DirectX 9.0. Then turn on the computer, the system will remind you "Found new hardware".

Notice: Just click "cancel" and ignore the pop-up message.

Insert the CD that contains TDF series capture card driver into the CD tray, and run Setup.exe program to install the driver. The default installation address is 'C:\Program Files\SuperDVR'

Notice: In case it warns that 'Can't find card' when running the SuperDVR software, please restart the computer.

2.1.4 Connect Audio Signal

Connect the audio input device to the microphone connector on the motherboard.

2.2 Install Video Capture Card Driver

Run Setup.exe, and the installation interface appears as blow:



Fig2.8 TDF series video capture card installation interface



Fig2.9 Welcome page

Select 'Next',



Fig2.10 Select video format



Setup	
Installing driver	



There are some pop-up windows will appear in the process and remind user if or not to go on with installation. When users are using Windows XP system, the pop-up message is as below:





And in case users are using Windows 2000 system, the pop-up message is as below:



Fig2.12 Windows system warning notice (2)

Select 'Continue Anyway' on Windows XP system, and

select 'Yes' on Windows2000 system. After this process it begins to install the application package SuperDVR, as below:

Setup	\mathbf{X}
Choose Destination Location Select folder where Setup will install files.	1 P
Setup will install SuperDVR in the following fold To install to this folder, click Next. To install to a another folder.	er. I different folder, click Browse and select
Destination Folder C:\Program Files\SuperDVR\SuperDVR InstallShield	Browse <u> Browse</u> <u> Browse</u>

Fig2.13 Select installation pass

Select the suitable option, and click 'Next'.

Setup 🛛 🛛
Select Program Folder Please select a program folder.
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue. Program Folders: SuperDVR
Existing Folders: Accessories Administrative Tools Games Microsoft Visual Studio 6.0 Network Associates Startup SuperDVR WinZip
InstallShield

Fig2.14 Register application

Click 'Next',



Fig2.15 Driver and application installation finished

Click 'Finish'

Now, after all the processes, restart the computer and begin to use the surveillance program. It will create a shortcut on the desktop.



Fig2.16 Shortcut of SuperDVR

Notice:

In case users cannot run the SuperDVR program, users should have to restart the computer.

3 Main display Interface

Run SuperDVR program and the main display interface appears as below:



Fig3.1 SuperDVR Main Display Interface

3.1 Display Control Panel

3.1.1 Display Control Panel



Fig3.2 Display control panel 'Display control panel' includes 'Display Mode' buttons, 'Auto Dwell'

button, 1, 4, 6, 8, 9, 13, 16 channels display buttons. Every button has its built-in indicator light. When switch on and off the buttons, the relative indicator lights turn on and off to indicate the working status.

Notice: Users can judge which buttons are working by the color of the buttons.

3.1.2 Display Modes



Fig3.3 Display Modes Panel

Notice:

In case the card installed is 4CH CARD, then only 1CH and 4CH buttons are valid.

In case the cards installed are 2 pieces of 4CH CARDS or a piece of 8CH card, then only 1CH, 4CH, 6CH, 8CH, 9CH buttons are valid.

In case the cards installed are 4 pieces of 4CH CARDS or 2 pieces of 8CH cards or a 16CH card, then 1CH, 4CH, 6CH, 8CH, 9CH, 13CH and 16CH buttons are all valid.

3.1.3 Flip Pages

When the display mode is 1CH, 4CH, 6CH, 8CH, 9CH or 13CH,

click system will display the next page according to the display mode.

3.1.4 Auto Dwell display Mode

In case users want to see all the channels in sequence, then click



and enter Auto Dwell display mode.

3.1.5 Quick Switch

In case the present display mode is 4CH, 9CH or 16CH, by clicking any image; or in case the present display mode is 6CH, 8CH or 13CH, by clicking the bigger image, the display will quick switch to corresponding single channel display mode. When the present display mode is 6CH, 8CH or 13CH, by clicking any image other than the bigger one, users can change the position of the image with the bigger one. By clicking the single image again, it will return to the former display mode.

3.2 Login



Click , and login window appears. Input the user name and password, the default user name is 'SYSTEM' with no password, users can access to the main interface. Users can change password for SYSTEM and create new user names and passwords once entered the system.





Buttons Explain:



P.T.Z Control



3.3 Record

3.3.1 Record Modes

According to different record triggering methods, TDF series video capture cards offer users with 4 kinds of record modes:

- (1) Schedule record mode (timer)
- (2) Manual record mode
- (3) Motion Detection record mode
- (4) Sensor Alarm record mode

Motion Detection record mode and Sensor Alarm record mode are together called as Alarm Record.

Multiple cameras record

In case users utilize multiple cameras to record, every camera works separately and the record file also saved separately. The parameters, i.e. camera ID, record date/time and record mode are all saved together with the record file.

3.3.2 Record Setup

	CAM1	CAM2	CAM3	CAM4	CAM5	CAM6	CAM7	CAM8	CAM9	CAM10	CAM11	CAM12	CAM13	CAM14
Name	CAM1	CAM2	CAM3	CAM4	CAM5	CAM6	CAM7	CAM8	CAM9	CAM10	CAM11	CAM12	CAM13	CAM14
Time Stamp														
Switch	✓	-	✓	-	✓	~	-	✓	-	✓	✓	-	v	V
🗌 Manual Record														
Manual Record Frame Rate	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Schedule Record														
Schedule Record Frame Rate	3	3	з	3	з	3	з	3	з	3	3	з	3	3
Motion Detection														
Motion Record Frame Rate	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Sensor Record Frame Rate	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Camera Security														
Record Quality	medium	medium												
1														

Fig3.5 Record setup

In the 'Record Panel' of the Basic Configuration page, users can set all kinds of necessary parameters for recording.

[Time stamp]:By selecting the options, the record date / time message appears in the record file and Remote Surveillance images.

[Switch] :By selecting the options, users can turn on corresponding cameras. In case there is no camera for some channel, don't select the option so as to save system resource.

[Manual record] :By selecting the options, the relative camera images will be recorded and saved all the while.

[Manual recording frame rate] : Select the record frame rate for manual record mode

[Schedule Record] : Schedule record option.

[Schedule Record Frame Rate] : Select Schedule Record frame rate

[Motion Detection] : By selecting the options, users can set relative channels' record mode as motion detection

[Motion Record Frame Rate]: Select record frame rate for Motion Detection record mode

[Sensor Record Frame Rate]: In case sensors utilized to trigger recording, users can select record frame rate here.

[Camera Security]: The users are divided into three standard: Normal user,

Power user and Administrator. By selecting the options, only administrators can see the corresponding channels.

[Record Quality]: Select record image quality here.

Note:

Users can select more than one record mode.

3.3.3 Record Status Panel



Fig3.6 Record Status Panel and Alarm Output Status Panel Meanings of indicator light colors in row one are as below:



When the indicator light color turns into in row two, it means there

is sensor alarm output.

3.3.4 Manual Record Mode

Manual Record mode is the most commonly used record mode. In case there is any special event happen, users can select this record mode and record timely.

Note: It's common to select high frame rate for short time manual record, while select low frame rate for long time Schedule Record.

3.3.5 Sensor Alarm Record Mode

Users can use sensors to trigger sensor alarm record for relative channels. When at that time, the record status indicator light will turn red.

3.3.6 Motion Detection Record Mode

It will enable the system to detect image changes and begin to record by activating motion detection and motion alarm record. For instance, somebody opens the door, and the system detects image changes and begins to record, then users can play back the recorded file and find out who opened door. When there is no movement, the system won't record and that's helpful for saving system resource, and convenient for searching for event record file. The indicator light color in the record status panel is red.

Note: Users may need to setup in three places so as to enable motion detection record mode.

- (1) Select 'Motion Detection' for certain channels in 'Basic Configuration'
- (2) Set the motion detection areas for certain channels in 'Motion Detection configuration' in 'Basic Configuration'
- (3) Set working schedule for certain channels in 'Schedule configuration' in 'Basic configuration'

3.3.7 Schedule Record

Users can set working schedule for all kinds of record modes in 'Schedule configuration' in 'Basic configuration'. The green light in record status panel shows the corresponding channel is in Schedule Record mode. Users can change record mode to manual record at any time, and the green light will change into blue light.

Please refer to chapter 4.4 for details.

3.3.8 Recycling Record

In case users enable Recycling Record function, when all the selected HDD partitions are full, the former record data will be covered by the latest record data.

Users can set recording storage sequence for HDD partitions. The recording storage will automatically jump to the next partition when it's full. In case all the partitions are full and recycling record mode has been enabled, the new data will overwrite the former recorded data automatically. Users can also set HDD minimum storage alarm. Then once the present storage space is less then the minimum storage and recycling record mode hasn't been enabled, the record will automatically stop.

4 System Setup

Click and enter the main setup interface.

			Basic Co	Infiguration					
Dwell Interv. 5 💌 s		HTTP Por	t 80	-	Storage Disk	₩ind	ows auto login		17 18 36
Caption Name	•	Data Port	amera Service	_		User nar Passwor	ne jadministrator		WED
Call Monitor Auto Dwell	•	Command Picture Q	Port 1259 uality higher			P PC A	uto Reboot		
		RPB Port	e Playback Serv	ice	🖓 Recycle	Per Start tin	15 • 0 • 00:00 ±	ays	0
	CAMI	CAMP CAMP	CAMA CAME	CAME CAM	7 CAMP CAM		CAMID CAMID	C0004	õ
tame [™] Time Stamp [™] Switch [™] Manual Record [™] Manual Record [™] Schedule Record [™] Schedule Record Frame Rate [™] Motion Record Frame Rate [™] Storin Record Frame Rate [™] Camera Socurity Record Quality	CAM1 F 7 7 3 7 7 7 medumo	CAM2 CAM3 CAM2 CAM3 C	CAMI CAMS CAMI CAMS C C 7 7 C C 3 3 C C 7 7 7 7 7 7 7 7 7 7 7 7 7 7	CAMB CAM CAMB CAM CAMB CAM CAMB CAM CAMB CAM CAMB CAMB CAM CAMB CAM CAM CAM CAM CAM CAM CAM CAM CAM CAM	7 CAM8 CAM	CAM10 CAM11 F 7 7 7 3 3 F 7 7 7 7 7 7 m medum medum	CAM12 CAM13 F F 7 7 7 3 3 7 7 7 7 7 7 7 7 7 7 7	GAM14 F 7 3 7 7 7 medum	
								2	1

Fig4.1 Basic Configuration

The definitions of the buttons in Fig4.1 are as below:



Schedule configuration



Video configuration



Motion Detection Configuration



4.1 Basic Configuration

Click and enter the basic configuration page where users can setup the system or just use the defaults.

Dwell Interv	5 💌 s	
Caption	Name	•
Audio In	No Record	•
Call Monitor	Auto Dwell	•



[Dwell Interval.]: In case users enable Auto Dwell function in the main interface

page, users can set the dwell time of a page here.

[Caption]: There are four options, None, ID, Name, ID/Name for users to select

for all the channels.

'None' means no title;

'ID' means camera numbers, i.e. 1, 2, 3 and so on

'Name' means camera names, i.e. Cam1, Cam2 and so on

'ID/Name' means both camera number and camera name, i.e. 1/Cam1, 2/Cam2 and so on

[Audio in]: The system supplies one channel of audio signal. Users can select putting the audio signal in certain channel. **Note: input audio**

signal by microphone connector

[Call Monitor] Only 16CH card has this function at present. Users can connect another monitor to the card and select the display modes here.

The following is about record data storage. Please check Fig4.3

Fig4.3 Record data storage precept

Above, SuperDVR system shows all the available HDD partitions for users. Users can select one or more of the partitions that will be used in sequence from up to bottom. Please refer to chapter3.3.8 to learn more about recycling record.

In the following area in the basic configuration page, users can input the

computer user name and password in the relative boxes. Then restarting the computer system, it will access the system using the user name and password inputted in the boxes and SuperDVR system will also automatically restart.

Vindow	s auto login
User name	administrator
Password	
🔽 PC Auto	Reboot
Per	15 💌 Days
Start time	00:00 ÷

Fig4.4 Computer System Reboot setups

As the windows system may become unstable after a couple of days										
continues operating, which will cause SuperDVR system unstable. Then										
users	s sł		nould		reboot	reboot		com	computer.	
Select	$\overline{\mathbf{v}}$	PC Au	ito R	eboot		, and cho	oose the	interval in	days,	
which setups.	will	guide	the	system	to reboo	t automa	atically a	according to	o the	
C	lick	E	to re	eturn to	the main c	lisplay int	erface.			
4.2 Video Configuration

Click Click And enters the video configuration page as below. Users can change the values of corresponding items, i.e. contrast, brightness, hue, saturation, auto gain, by drawing the levers on the bars. Click 'Default', and all the values will return to the default value.



Fig4.5 Video Configuration

Definitions of the setup items:

[Contrast]: set image color contrast

[Brightness]: set image brightness

[Hue]: set image hue

[Saturation]: set image Saturation

[Auto Gain]: users can set it as auto or manual. Only 4CH Card and 16CH card have this function

[Default]: load defaults, i.e. set the first four items value as 5000 and the last item value as 0.

4.3 Motion Detection configuration



Fig4.6 Motion Detection Configuration

Definition of the setup items:

[Sensitivity]: users can set motion detection sensitivity here.

[Select All]: select all the area of the channel as detection area

[Clear]: clear all the detection areas, and then users can select customized detection areas by cursor.

4.3.1 Set Motion Detection Area

In case users want to customize the detection areas for a certain channel, first select the camera, then select 'Clear' and draw the cursor in the box in the left side. At this time, users can see a green box appears, which shows the motion detection area. Users can select maximum 16 customized areas for

each channel.

By click 'Clear', users can clear all the selected areas.

4.3.2 Set Motion Detection Sensitivity

Draw the lever and select a certain value for motion detection sensitivity.

4.4 Schedule configuration



Fig4.7 Schedule Configuration

Our TDF series system offers the users with powerful schedule configuration options. Every channel has three kinds of record modes, i.e. schedule record, motion detection record and sensor alarm record. We provide users to set schedules from Sunday to Monday separately for all of the three

record modes. Sensor alarm record mode has the highest priority among all record modes. Here users can set schedules for it.

When users need to edit schedule for a certain channel, first select the camera name in the three record modes group, and select the color bars on the right side, then select 'Edit' to edit schedules. Click 'Add' to add schedule for a certain channel. Note: the added schedule should not be reduplicate to the former settings. Click 'Delete' to delete schedule. Click 'Clear All' to delete all the schedules of a certain channel.

See the Fig4.8 and learn how to edit schedules for a certain channel:

Ec	dit							X
	00:00 🗧	23:59 ;						
	🔽 Sunday	🔽 Monday	🔽 Tuesday	🔽 Wednesday 🗸	Thursday	🔽 Friday	🔽 Saturday	
				Select All	ОК			

Fig 4.8 Edit Schedule for a Channel

4.5 Motion Detection Alarm Configuration

4.5.1 Alarm Triggering Conditions Configuration

The system can receive alarm both from local place and network (1) Local place alarm record triggering conditions configuration

🔽 Buzzer	10 💌 s
Motion holding time	10 💌 s
Sensor holding time	10 💌 s
Disk shortage alarm	100 💌 MB

Fig 4.9 Local place alarm triggering conditions configuration Relative Explanations:

- [Buzzer]: Users can select if or not to open the computer buzzer in case the alarms have been triggered, and also select how long the buzzer rings
- [Motion Holding Time]: Motion sensor may detect some movement, only if the movement lasts for a period exceed the default time, then the alarm record will begin and buzzer beeps.
- [Disk Shortage Alarm]: In case the HDD available space is less then the set value, the buzzer will beep if 'Buzzer' has been selected.

(2) Alarm output terminal in LAN



Fig 4.10 Alarm output terminal in LAN Select 'Remote Alarm', and enter the area as Fig4.10 shows.

Click 'Add' to add alarm output terminals in LAN. Look the figure below:



Fig 4.11 Add alarm output terminal in LAN

Find the terminal computer and click 'OK', and users can see the name of the selected terminal will appear in the box as below:

🔽 Remote Alarm	
Chenliang	Add
	Delete

Fig4.12 List of alarm output LAN terminals

Note: this function is only valid in LAN, not in Internet.

4.5.2 Alarm Record



Fig4.13 Alarm Configuration

Every sensor can trigger multiple channels to record. For example, in case users select CAM1, CAM4 and CAM5 for Sensor2, then once the sensor is activated, CAM1, CAM4 and CAM5 will begin to record. Users can also select the voltage, high and low, for alarm signals.

4.5.3 Alarm Output

Tringer	Alam out!	Alam out?	Alam and a	Alam out 4	Alam out to	Ruzzei	Renote share a	2004.051
Video loss		Real Contraction	P	P	R	E CONTRACTOR		
Disk alarm	F	8	2	8	E	E	6	
E Sensor2	F	-	in the second se	1	E .	i-	-	
E Sensor3	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
Sensor4	F	-	2	-	-	-	-	
E Service6	E.		in the second se	in the second se	-	1	i l	8.50
C Sensor7			F	E	—	—	г	5
C Sensor8	E	-	2	-	-	E	2	
T Sensor10	Ē	-	in the second se	F	in the	-	ir i	
Sensor11	5		<u></u>		<u> </u>	-	E I	
Sensor12	-		2	-	-	-		
E Sentor14	in the	1	1	F	1	-	F	
C Sensor15						-	C	
E Malant	E	-	-	-	-	-	-	
T Motion2	E.		i i		E .	E.	E I	
Motion3			C		E .		5	
Motion4	<u> </u>	2	Ē	<u>_</u>	E	Ē	_ ×	
	lin al							
 states 	10 -	5 1.6	enure sam					
south todang time	- m	2						
ensor holding time	10 -	s 10-0						
wels exertises alarm.	100 -	MB						

Fig4.14 Alarm output

- [Video Loss]: Users can select alarm output for this option. For example, users select alarm_out1 and alarm_out3 and remote alarm for video loss. Then video loss of any channel will trigger alarm_out1, alarm_out3 to show red light in the Alarm output status panel (refer to Fig3.6 for reference), and the system will give out related warning message to the terminals in List of alarm output LAN terminals (refer to Fig 4.12)
- [Disk Alarm]: when HDD available space is less than the set value (refer to Fig4.9), it will trigger selected alarms.
- [Sensor 1]: in case users have mounted sensors, when the sensors have been activated, then it will trigger the selected output alarms.
- [Sensor2] [sensor16] 4CH card has maximum 4 sensors, 8CH card has maximum 8 sensors, and 16CH card has maximum 16 sensors.
- [Motion 1]: Users can set motion detection alarm output by different alarms and remote alarm.

[Motion 2] - [Motion 16] 4CH card has maximum 4 motion alarms, 8CH card has maximum 8 motion alarms, and 16CH card has maximum 16 motion alarms.

4.6 P.T.Z Control Configuration



4.6.1 Protocol Setup

Channels list: 1. CAM1 2. CAM2	F Enable Eort COM1 -	
3. CAM3 4. CAM4 5. CAM5 6. CAM5	Address: 1	
7. CAM7 8. CAM8 9. CAM9	Protocol: PELCO_P	
10. CAM10 11. CAM11 12. CAM12 13. CAM13	Pan Speed: 34	
14. CAM14 15. CAM15 16. CAM16	Till Speed:	
	Focus Speed 0	
	Zoom speed.	
1		

Fig4.15 P.T.Z Protocol Setup

Users can select different protocols, serial port number, Pan speed, Tilt speed,

Focus speed and Zoom speed for P.T.Z devices.

Relative Definitions:

[Port]: users can set port number

[Address]: P.T.Z device RS485 address

[Protocol]: P.T.Z device communication protocol [Pan Speed]: set horizontal rotating speed [Tilt Speed]: set vertical rotating speed [Focus Speed]: set camera focus speed [Zoom Speed]: sets zoom in / zoom out speed

4.6.2 Serial ports setup

Users should first enable the P.T.Z control function of a certain camera and select a port number in P.T.Z Protocol Setup (refer to Fig4.15), and then set corresponding parameters in the area below:

OM1 OM2	Part No:	COM1	
	Baud Rate:	4800	
	Data Bits:	8	-
	Parity Bit.	None(N)	-
	Stop Bit:	1	

Fig4.16 P.T.Z Serial port Setup

Relative explain:

[Baud Rate]: set P.T.Z device Baud Rate, default value is 9600 [Data bits]: default value is 8 [Parity Bit]: odd and even parity bit, default Null [Stop Bit]: default value is 1 Notice:

Users should look into the P.T.Z device and get the Baud Rate, Protocol, and Address first, then set their values accordingly.

4.7 Users Configuration

Click and access the following area:	
User Configuration Logn Username User Group SYSTEM Administrator	DVR (17033) 2004 (56.09) SUN
Add Edit Delete Administrator: Suer user, can do exception Power user : Can do exception except Configuration Operator : Bights to Logn(LogotTand Monitoring	
	E

Fig4.17 User Configuration

After installing the SuperDVR system, it will automatically create an administrator user of which user name is SYSTEM with no password. Users can use this user name to log in the system and 'Add', 'Edit' and/or 'Delete' users parameters.

4.7.1 Change User rights

Select a user in User Configuration area (refer to Fig4.17), and click 'Edit' and enter Edit User area, as below:

Edit user			>
User name	SYSTEM		
Password			
Confirm Password			
Rights	Administrator	-	
Г			
L		CARCEL	

Fig4.18 User password and rights edit

Users can edit users password and rights here. but not the user name.

Note: The system offers three kinds of rights:

Administrator: this kind of user of the highest rights to change all the settings and playback.

Power user: this kind of user cannot access Basic Configuration and change settings, but has all the other rights of

Administrator.

Normal: this kind of user can only access SuperDVR main display interface (refer to Fig3.1)

Notice:

Administrators can change Power users and Normal users' rights, not other administrators' rights.

4.7.2 Add User

Click 'Add' in User Configuration (refer to Fig4.17), and access the following area:

User name		
Password	Í	
Confirm Passwo	ord	
Rights	Normal User	•

Fig4.19 Add User

Input User name, password, confirm password and select user rights, and then click 'OK'.

4.7.3 Delete User

Select the user name in User Configuration (refer to Fig4.17), and click 'Delete', and confirm delete. See below:

SuperD\	/R	×
♪	Are you sure you want to delete the us	er?
	Cancel	

Fig4.20 Confirm Delete User

5 P.T.Z control

Click in the SuperDVR main display interface (refer to Fig3.1) and access to the following area:



Fig5.1 P.T.Z Control Interface

Users can control P.T.Z devices by the function buttons on the right side, see as below:



Fig5.2 P.T.Z Control Function Buttons Panel

In the upper circle, there are five function buttons, i.e. upward button, downward button, leftward button, rightward button and stop button. The other buttons are Focus buttons (+ and -), Zoom buttons (+ and -), Iris buttons (+ and

-). Click and low to increase and decrease the corresponding values.

When users need to utilize P.T.Z control, first enter P.T.Z Control Interface (refer to Fig5.1), and click the corresponding channel (users can see a red fringe around the channel), then users can begin to control the P.T.Z control enabled camera.

Notice:

After clicking any function button in P.T.Z Control Function Buttons Panel (refer to Fig5.2), users must click timely the stop button in the center of the upper circle.

6 Record Search and Playback

Click in the SuperDVR Main Display Interface (refer to Fig3.1) and access to the following area:



Fig6.1 Search and Playback Interface

This interface is divided into 4 parts, i.e. record search area, record playback area, record play area and other functions area.



and return to the live surveillance state.

6.1 Record Search



Fig6.2 Record Search Area

A, B and C mark the areas of three search methods.

A: Search by date (range from Jan. 1st, 1971 till now)

B: Search in backup file and original file

C: Search by record mode. This is useful when user want to look through some important events.

Users can select one or more of the three searching methods to search for needed record file.

6.2 Record Playback and Control



Fig6.3 Record Playback and Control

Explain of the button function:



: Next Section



Previous Frame. This button is valid when playback by single channel



Next Frame. This button is valid when playback by single channel

Users can select suitable play speed in the area as below:



Fig6.4 Play Speed Controller

The following area shows the record files of different channels:

Camera	
✓ CAM1	I IIIII
✓ CAM2	й —
✓ CAM3	N N
✓ CAM4	И
CAM5	И
CAM6	N .
ALC: NOT THE OWNER.	1 M

Fig6.5 Record Files Browser

The upper bar shows the hours in a whole day. Click the bar, and it will be magnified 10 times, therefore users can see the detailed time marks. When searching for a certain section of the file, users can draw the lever on the bar to the area where most likely contains the needed section. If necessary, click the bar once and see the magnified time marks for precise search.

The left side shows the available channels. When a certain channel has been selected for playback, the background color will change to highlight, or it's dark gray, and a tick sign will appear beside the channel title.

The main area in the center gives details of the record files. Different color of the bar shows different kind of record mode of the files. The following are the definitions of the color bars:



Fig6.6 Multiple Channels Playback Control

The system default playback mode is one channel. That's Camera1. In

case user need to change to other channels, then click **measure**, and the following channel configuration dialog window will appear, as below:

CHANNEL CONFIG DIALOG					
It will be effective after you press the "Apply" or the "OK".	 Camera1 Camera2 Camera5 Camera6 Camera7 Camera9 Camera10 Camera11 Camera13 Camera14 Camera14 	Camera4 Camera8 Camera12 Camera16			
	Cancel	ок			

Fig6.7 Channel Configuration Dialog for 1 Channel Playback Mode

Note:

Take 16CH card for example. But in fact, 4 pieces of 4CH cards and 2 pieces of 8CH cards can make the same effect.

Users can select one channel from all the available channels for playback. In case user need to play back 4 channels at the same time, then click , and the following channel configuration dialog window will appear, as below:

CHANNEL CONFIG DIALOG				
First 4Channels:	🔽 Camera1 🔽 Camera2 🔽 Camera3	🔽 Camera4		
☐ Second 4Channels:	🗆 Camera5 🗖 Camera6 🗖 Camera7	🗆 Camera8		
Third 4Channels:	🗆 Camera9 🔲 Camera10 🗖 Camera11	Camera12		
Fourth 4Channels:	🗆 Camera13 🗖 Camera14 🗖 Camera15	Camera16		
	Cancel	ок		

Fig6.8 Channel Configuration Dialog for 4 Channels Playback Mode

Users can select any four channels from all the available channels for playback.

The system offers quick select methods for users. For example, by selecting 'Third 4 Channels', Camera9, Camera10, Camera11, and Camera12 will be quickly selected.

In case user need to play back 9 channels at the same time, then click

, and the following channel configuration dialog window will appear, as below:

	CHANNEL CONFIG DIALOG	
First 9Channels:	🔽 Camera1 🔽 Camera2 🔽 Camera3	🔽 Camera4
	🔽 Camera5 🔽 Camera6 🔽 Camera7	🔽 Camera8
🗖 Second 9Channels:	🗹 Camera9 🔲 Camera10 🗖 Camera11	Camera12
	🗖 Camera13 🗖 Camera14 🗖 Camera15	🗆 Camera16
	Cancel	ОК

Fig6.9 Channel Configuration Dialog for 9 Channels Playback Mode

Users can select any 9 channels from all the available channels for playback. Users can also use the quick select methods by the system.

In case user need to play back 16 channels at the same time, then click

, and the following channel configuration dialog window will appear, as below:

	CHANNEL CONFIG DIALOG
C Select All	🔽 Camera1 🔽 Camera2 🔽 Camera3 🔽 Camera4
🗖 Clear All	🔽 Camera5 🔽 Camera6 🔽 Camera7 🔽 Camera8
Invert Selection	🔽 Camera9 🔽 Camera10 🔽 Camera11 🔽 Camera12
	🔽 Camera13 🔽 Camera14 🔽 Camera15 🔽 Camera16
	Cancel

Fig6.10 Channel Configuration Dialog for 16 Channels Playback Mode Then click 'OK' to play back.

Tips:

Click any channel and magnify it to see the single channel. Click again to return to the former playback mode.

6.3 Other Functions

6.3.1 Record File Backup

Click , and enter the following area:

Backup Dialog	X
Select Camera[s]: Camera1 Camera2 Camera3 Camera4 Camera5	Time Interval: B Frem: 2002- 5-21 To: 2004- 5-21 C 0:00:00 To: 16:05:08
Camera6 Camera7 Camera8 Camera9 Camera10 Camera11 Camera12	Copy To: F:(581M free) F Attach Application F:(Browse Start
Camera14 Camera15 Camera16	ок.

Fig6.11 Record File Backup

Users can select corresponding cameras and copy the record files to another path in this area. This is the file backup function of the system.

The interface is divided into four areas:

- A: Camera Selection Area
- B: Time and Date Selection Area
- C: Operation Area
- D: Information Area

In A area, users can select one or more cameras;

In B area, users can set start time/date and end time/date, and then backup

the files recorded by channels selected in A area in the time interval;

In C area, users can set backup path

Click 'Start' to backup files.

6.3.2 Delete Record Files

Click , and the following window will appear:

Select Camera[s]:		Time In	terval:			
Camera1 Camera2	^	From:	2006- 5-20	To:	2004	5-20 *
Camera3			THE REAL PROPERTY AND			
Camera4			0:00:00		23:59	:59 📩
Camera5		Table				
Camera6		Total				Start
Camera/				•		Dieder .
Camera9		Notes:				
Camera10						
Camera11						
Camera12						
Camera13						
Camera14						

Fig6.12 Delete Record Files

Users first select the channel on the left side, and then select start time/date and end time/date of the record files, click 'Start' to delete files.

6.3.3 Capture Pictures

The definitions of the function buttons are as below:



Print captured picture

Notice:

Only in one channel playback mode (refer to Fig6.7) that



valid.

When in single channel playback mode, there will automatically appear the following color control panel (Fig6.12), by which user can make color setup for the present channel, including brightness, contrast, saturation and hue, and press 'Default' to recover to the original settings.



Fig6.13 Color Control Panel

When in the single channel playback mode, click **e** and the following window will appear as below,



Fig6.14 Capture multiple images in a row

Select path, and click 'Save' to save the picture. User can also print the images that have been captured.

С	lick	and make corresponding prin	nt setup as below:
P	rint Setup)	? 🛛
[Printer		
	<u>N</u> ame:	Auto Canon Bubble-Jet BJC-5500 圖	<mark>≰ 2) ▼</mark> Properties
	Status:	Ready	
	Type:	Canon Bubble-Jet BJC-5500	
	Where:	\\RD5\CanonBub	
	Comment:		
	Paper		Orientation
	Size:	A4 💌	Portrait
	Source:	Automaticallu Select	A Clandscape
	<u>o</u> oarco.		
	Net <u>w</u> ork.		OK Cancel

Fig6.15 Print Setup



99402 下一百00 第一百の 第百の 拉近の 拉達の 開閉(C)
Zage setting Position & Size •
Fig6.16 Print Preview
Select Position , and click +, - to move the picture
pward, downward, leftward and rightward. Select • Size ,and click +
- to zoom in and out the image. By pressing Default , recover all the
riginal settings. Press 'Print' in the print preview window, users can print the image irectly.
5.3.4 Image Zoom In / Out
When in single channel playback state, the zoom control icons
will appear. Select P and click on the channel will
oom out the image. By click continuously, the image will be zoomed out

continuously. Select P and do the some operations and get the opposite effect.

Click *for and recover the original size.* Take the following three pictures for example,



Fig6.17 Example: Original Size



Fig6.18 Example: Zoomed out



Fig6.19 Example: Zoomed in

7 Remote Surveillance and Playback

7.1 Remote Live Surveillance

Our TDF series surveillance systems support Remote Surveillance through LAN, Internet and Intranet. Simply enable web cam function of the system on a computer connected to Internet, and the computer system becomes an Internet web cam server. On any other computer that connects to Internet or the same LAN network, input the SuperDVR server address in IE browser, the end users can get high quality real time image from the server and also control the P.T.Z devices.

7.1.1 Remote Surveillance Sever Configuration

Users should first enable the Web Camera Services in Basic Configuration (refer to Fig4.1) and set other settings as below:



Fig7.1 Web cam server configuration

[HTTP Port]: Web service & download service port, default value is 80

[Data Port]: data transmission port, default value is 1159

[Command Port]: control command port, default value is 1259

[Picture Quality]: default value is higher

7.1.2 Remote Surveillance Client-end Setup

On the client-end, users should first install the WebCam program. And the following is the detailed information.

Input the WebCam server IP address in Internet Explorer, and the following page appears:



Fig7.2 Remote Surveillance and playback services selection [Live Surveillance]: this option is for users to see remote live view. [Remote Playback]: this option is for users to play back recorded files.

Notice:

In case the HTTP port setting is not 80 (80 is the default setting,

commonly used), then when input the server IP address, users should add the port number after the IP address. For example, the server IP address is 211.148.96.234, and the port number is 81, then users should input <u>http://211.148.96.234:81</u> into the browser.

Select Live Surveillance, and click 'OK' to install Remote Surveillance client-end program as below. In the next chapter, we will learn more about Remote Playback.

If the user is the first time to connect to the server, then the following window will pop-up:



Fig7.3 Inquiry for installing WebCam Downloading component **Notice:**

In case users has already installed client-end program before and SuperDVR version not changed on the server, after inputting server address in IE browser, Fig7.9 will come out without downloading or installing WebCam.

🖾 WebCam - InstallShield Wizard			X
Extracting Files The contents of this package are being ex	tracted.		K
Please wait while the InstallShield Wizard e on your computer. This may take a few m	extracts the files oments.	needed to instal	l WebCam
Extracting data2.cab	-		
Install5hield	< Back	Next >	Cancel

Fig7.4 Web Cam client-end driver initializing

After initialization has completed, WebCam will be installed automatically.



Fig7.5 WebCam installation

Setup	\mathbf{X}
Choose Destination Location Select folder where Setup will install files.	1
Setup will install WebCam in the following folder.	·
To install to this folder, click Next. To install to a another folder.	different folder, click Browse and select
Destination Folder	
C:\Program Files\SuperDVR\WebCam	Browse
InstallShield	< Back (Next > Cancel

Fig7.6 Default install path

Users can set another path by clicking 'Browse'. Click 'Next' to continue:

Setup 🛛
Select Program Folder Please select a program folder.
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue. Program Folders: SuperDVR
Egisting Folders: Microsoft Visual Studio 6.0 MotionPerfect Network Associates Office2000 Port Explorer Evaluation Real Realtek Sound Manager Startup SuperDVR
InstallShieldCancelCancel

Fig7.7 Register program folder name

Click 'Next' after input the folder name or select the default name, and then 'Finish' installation as below:



Fig7.8 Installation success

Then the WebCam main interface will appear as below:


Fig7.9 WebCam main interface



, input user name and password, as below:

Login			×
<u>e</u>	User name Password	SYSTEM	
		OK	

Fig7.10 Login web cam

Note:

The default User name is SYSTEM with no password. Users can set user name and password on the server end (refer to Fig4.17).

After logging into server, you will get the first channel video from server, and you can adjust screen mode just like SuperDVR, bellow is the WebCam surveillance mode interface.



Fig7.11 WebCam surveillance state

Alarm state monitor and PTZ control all same as SuperDVR, we do not need give detail explanation here any more.

7.2 Remote Playback

7.2.1 Remote Playback server Configuration

For using our powerful remote playback function, users should first enable Web Cam service and Remote Playback Service in Basic Configuration (refer to Fig4.1 and Fig7.11).

🔽 Remote Playback Service			
RPB Port	13551		

Fig7.11 Remote playback service configuration

[RPB Port]: the default value is 13551

Note:

Uses can enable remote playback service without running the SuperDVR. Just enter the installation folder of SuperDVR, and activate MediaServer, users can also enable the RPB service.

Once the remote playback service has enabled, there will be an icon on the taskbar to remind users the service has been activated.



Fig7.12 Remote playback service activated

7.2.2 Remote Playback Client-end Setup

Users should also first download and install playback program. This chapter will guide users how to make it.

Input server address in IE browser, and the following interface appears:



Fig7.13 Remote Surveillance and playback services selection

Select 'Remote Playback' and click 'OK',

SuperDVR - InstallShield Wizard	
Extracting Files The contents of this package are being extracted.	1
Please wait while the InstallShield Wizard extracts the files needed to install SuperDV on your computer. This may take a few moments.	R
Extracting setup.inx	_
InstallShield	ncel

Fig7.14 Installing remote playback program

Notice:

In case users has already installed the remote playback program before and SuperDVR version not changed, then no need to download and install it again, it will go to Fig7.19 directly.

After initialization has completed, users need to install the program. First select installation path as below:

Setup	
Choose Destination Location Select folder where Setup will install files.	Ĩ
Setup will install RemotePlayback in the following folder. To install to this folder, click Next. To install to a different another folder.	folder, click Browse and select
Destination Folder C:\Program Files\SuperDVR\RemotePlayback InstallShield	Browse
< <u>B</u> a	ick Next > Cancel

Fig7.15 Default install path

Users can set another path by clicking 'Browse'. Click 'Next' to continue:

Setup		
Select Program Folder Please select a program folder.		
Setup will add program icons to the Program Fol name, or select one from the existing folders list. Program Folders: RemotePlayback	lder listed below. You may type a nev Click Next to continue.	/ folder
Existing Folders: Accessories ACD Systems Administrative Tools Adobe Chinese keywords DivX GAIN Games GinbalSCAPE		
InstallShield	< <u>B</u> ack <u>N</u> ext >	Cancel

Fig7.16 Register program folder name

Click 'Next' after inputting the folder name or selecting the default name, then the following figure appears:

serup	
Setup Status	
RemotePlayback Setup is performing the requested operations.	
Installing:	
C:\Program Files\SuperDVR\RemotePlayback\msvcr71.dll	
79%	
1370	
1370	
1370	
1.570	
InstallShield	

Fig7.17 Playback program installation process rate

And then click 'Finish' to finish installation as below:

Setup	
	Setup Complete Setup has finished installing RemotePlayback on your computer.
	Click Finish to complete Setup.
	< <u>B</u> ack [Finish]

Fig7.18 Installation success

Then the playback client-end main interface will appear as below:



Fig7.19 Remote Playback client-end main interface **Corresponding Explanations:**



7.2.3 Remote Playback Configuration and Control

7.2.3.1 Setup

Before logging in the server, first click and make corresponding settings,

	Config Parameter	2	<u><1</u>
IP address	Remote Server	192.168.2.134	
IP Port No.	IP Port	13551	
	Record Save Path	D:\mediaserver Browse	Save path
Record Frame Rate	Frame Speed Advance	V Auto	Record at original Speed
		Ok Cancel	

Fig7.20 Client-end configuration

Click 'Advance' and enter the advanced setting area. Users can select different compression format.

7.2.3.2 Log in Remote Playback System

Click after making up certain configurations, and the following window

appears.

Login			X
	User name Password	SYSTEM	
		OK	CANCEL

Fig7.21 Log in Remote Playback System

Input the right user name and password and enter the remote playback

main interface as below:

Note:

The default User name is SYSTEM with no password. Users can set user name and password on the server end (refer to Fig4.17).



Fig7.22 Remote Playback Main Interface

7.2.3.3 Control

Select the time period for playback

Once log in the system, the setup button and login button are disabled. Click



and the following window appear.

Date	2004- 7-31	
Start time	0:00:00	
End time	23:59:59	

Fig7.23 Select date/time period for playback

Select the date / time, then click 'OK' to save the setting and return to the main interface. Click 'Cancel' to give up setting. The selected time / date will appear in the left bottom of the screen.





Fig7.24 Time control Lever

The following area is for users to control the play speed.



Fig7.25 Play speed control module

Notice:

The above area works like this: the original recorded file is, for example 4 frames per second, then users select 24 frames per second for playback, therefore

the speed is 6 times faster than the real speed, not real time.

Remote Record



and begin to record remotely. And the icon changes to



Click it again and stop recording. Users can select save path and compression format before logging in the system.

Synchronization

Click and make every channel to playback synchronously. Click this button again, and return to asynchronous playback state.

Appendix

Appendix 2: Differences Among 4CH Card,

8CH Card and 16CH Card

Item	4CH CARD	8CH CARD	16CH CARD
Video Input	4	8	16
Alarm Output	1	4	16
Relay Output	1	0	1
Watch Dog	Ν	Ν	Y
Call Monitor	N	Ν	Y
Manual Gain	Y	Ν	Y

Appendix 3: Frequently Asked Questions

Appendix 3.1 About Installation

Appendix 3.1.1 Cannot Install the SuperDVR Driver

Possible causes:

- (1) TDF series capture card hasn't been installed. Before installing driver, users should install capture card hardware in the PCI slot in the computer case.
- (2) TDF series capture card hasn't been installed correctly. Please unplug the card and install it again or change to another PCI slot.
- (3) Not compatible with PC hardware.

Appendix 3.1.2 'Unspecified error' in the End of Installation

Possible causes as below:

- On English version Window XP system, by using driver below SuperDVR3.02, the unspecified error will appear, as the databases are not well compatible.
- (2) Microsoft Windows system database has been destroyed. Reinstall windows system or try to install SuperDVR driver above SuperDVR3.1.1 to solve the problem.
- (3) Relative Windows support files has lost or been destroyed, need to reinstall window system, or try to install SuperDVR driver above SuperDVR3.1.1 to solve the problem.

Appendix 3.1.3 Can't Find TDF series Devices in Device Manager

Enter the Device Manager and cannot find corresponding TDF series Devices, the possible cause may be as below:

- (1) Windows system error. Restart computer.
- (2) TDF series card error. Change for a valid one.
- (3) Install SuperDVR

Appendix 3.2 How to Use SuperDVR

Appendix 3.2.1 Meanings of the indicator lights

Grey- Normal state Red--Sensor alarm Yellow- Motion detection alarm Blue--Video loss Bottle Green- Manual record state Reseda- Schedule record state Note: users can refer to Fig3.6 to learn more.

Appendix 3.2.2 How do the different record formats work?

Users can set more than one record mode in Record setup (refer to Fig3.5), but actually, there is only one valid record mode in a time.

The priority order of the record modes is: Sensor Alarm Record > Motion Detection Record > Manual Record > Schedule Record

Appendix 3.2.3 How to set recycling record mode on the system?

Select 'Recycle' in basic configuration, refer to Fig4.1.

Users can select multiple HDD partitions to save record files. It won't cover former files until all the partitions' available storage spaces are less than 100MB.

In case users haven't enable recycling record mode and the partitions' storage spaces are less than 100MB, the alarm will ring and the HDD usage indicator will turn red.

Tips:

It is recommended that install SuperDVR into the partition installed with windows system (normally C:), and save record files in HDD partition D:

Appendix 3.2.4 How to set auto reboot function?

In case Microsoft Windows system continuously runs for a couple of days, the system may become unstable, therefore it's suggested to restart the computer every few days.

In the basic configuration (refer to Fig4.1), input Windows user name and password (Note: not SuperDVR user name and password), and select time interval, then the Windows system will automatically restart according to the set time.

In case the Windows system closed abnormally, i.e. power supply is cut off, and when computer reboot next time, SuperDVR system will automatically restart, and keep the settings as before.

Tips:

Users may don't need enable auto reboot function, but it's suggested to input the Windows user name and password in the relative area, therefore when meeting abnormal system exit, users don't have to be troubled to input Windows and SuperDVR user names and passwords.

Appendix 3.2.5 How to quickly use the schedule record function?

Press 'Shift' or 'Ctrl' key, and draw the cursor in corresponding areas to make schedules for multiple channels.

Appendix 3.2.6 Why can't I select P.T.Z device's protocol?

Users should first select 'Enable' to enable the P.T.Z. (refer to Fig4.15) and check if the protocol needed is available or not in this folder: C:\Program files\SuperDVR\protocol Files. (C:\Program files\SuperDVR is the default installation path, users may select other paths to install the driver, and then turn to the paths). The file names are the same as protocol name, for example, PelcoP.dll, PelcoD.dll and so on.

Appendix 3.2.7 What are the byte rates for different image qualities from highest to normal?

When on PAL system and the frame rate is 25 fps, bitrate for the highest image quality is about 120K Byte/s, and for the lowest image quality is about 30K Byte/s.

Appendix 3.2.8 The frame rate seems to be smaller than what I set?

There is frame loss in image switch, therefore the real record frame rate is about 50% smaller than the theoretic value.

Appendix 3.2.9 Why can't I select more channels to backup?

Please draw the mouse in the channel selection area, or utilize Shift and Ctrl key for assistance.

Appendix 3.2.10 When should I select manual Gain Control?

In case the video signal is seriously decreasing, and the color images turn to black and white, use manual gain control may of help.

Appendix 3.3 How to Use Network Function

Appendix 3.3.1 How to monitor on the client-end?

First enable 'Web cameras service' in basic configuration (refer to Fig4.1).

Input the sever Internet address in IE browser on the client-end, and the necessary web cam driver will be downloaded automatically, then users need to install the driver. After access the web cam main interface, click 'login' and input user name and password to log in the system. (Refer to Chapter 7 to learn more)

Appendix 3.3.2 Why can't I download the client-end software?

The possible causes:

The client-end computer hasn't properly connected to Internet or LAN.

The server-end hasn't enabled 'web cameras service'

The default Http port is 80. It may be conflict with other Web servers, for example IIS. If true, please change another port.

Windows XP SP2 will block the OCX download. You should enable 'Internet Option \rightarrow Security Settings \rightarrow Download unsigned ActiveX controls'.

Appendix 3.3.3 Why can't I see the images?

The possible causes:

The VGA card is too outdated.

Have not installed newer DirectDraw.

SuperDVR cannot run in Window 98 system.

Data port or command port is conflict with other network services.

The user is connected to Internet through LAN, and the network administrator hasn't enabled corresponding data port or command port.

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The client-end has installed firewall software that may stop video transmission.

MPEG4 codec has not install properly, please download new version WebCam.

Bad network speed.

Appendix 3.3.4 What should I do if the Internet speed is quite slow?

The more channels opened, and the slower the video transmission speed, therefore try to use one channel display mode when the network speed is slow.

Tips:

There may be some surplus channels that have no video input. Switching off the channels is of help to improve transmission speed. (Refer to Basic Configuration about switching on/off channels.)

Appendix 3.4 Other questions

Appendix 3.4.1 Why computer display doesn't work, and why can't I access window system?

The capture card may not be well installed. Unplug the card and try it again.

Note: Please unplug the power plug of the computer, so as to avoid damaging the motherboard chip set.

Appendix 3.4.2 Why can't I find the record files?

HDD space is not enough.

Appendix 3.4.3 Why the screens display is unstable with dithering and water-wave images?

Possible causes:

Camera electrical power is not enough.

There is external electromagnetic disturbance, or electrostatic disturbance of camera BNC connector (It's suggested to connect ground wire to the connector).

User hasn't installed necessary VGA driver.

VGA card problem. Try reinstalling the VGA card, or changing another VGA card.

Appendix 3.4.4 Why it delays to play back, and it's slow to close and open the driver?

Possible causes:

Windows system problem. Try to reboot the computer.

There are too many recorded files or too many fragments on the HDD, therefore it takes time to search for the files, you need delete the files that you don't need, or need to make disk defragmenter now.

Capture card problem.

Computer hardware system is too outdated.

Appendix 3.4.5 Why can't I play back?

Windows media player has been damaged, or decoder hasn't been installed properly. It's suggested to reinstall the relative software system.

Computer problem, recorded files have been damaged. It's suggested to fix these files using SuperAVIFix program.