AVerMedia[®] AVerDiGi EXR6004 Mini

User Manual



FCC NOTICE (Class A)



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Federal Communications Commission Statement

NOTE- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Class A ITE

Class A ITE is a category of all other ITE which satisfies the class A ITE limits but not the class B ITE limits. Such equipment should not be restricted in its sale but the following warning shall be included in the instructions for use:

Warning --This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

European Community Compliance Statement (Class A)

This product is herewith confirmed to comply with the requirements set out in the Council Directives on the
 Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2004/108/EEC.

Warning - This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures to correct this interference.

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Battery Safety Information

- Store the batteries in a cool dry place.
- Do not dispose of used batteries in domestic waste. Dispose of batteries at special collection points or return to point of sale if applies.
- Remove the batteries during long periods of non-use. Always remove exhausted batteries from the remote control. Battery leakage and corrosion can damage this remote control, dispose of batteries safely.
- Do not mix old and new batteries.
- Do not mix different types of batteries: alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium).
- Do not dispose of batteries in a fire. The batteries may explode or leak.
- Never short circuit the battery terminals.

WARNING

TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE



CAUTION

IF THERE IS ANY DAMAGE, SHORTAGE OR INAPPROPRIATE ITEM IN THE PACKAGE, PLEASE CONTACT WITH YOUR LOCAL DEALER. WARRANTY VOID FOR ANY UNAUTHORIZED PRODUCT MODIFICATION

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Chapter 1 Introduction

AVerDiGi EXR6004 Mini brings you the new version of pure NVR. With Compact size, it provides 4 channel video and audio inputs. Shattering marketing limitation by supporting full range of IP camera from all major manufactures worldwide and accepting H.264, MPEG4 and MJPEG video streaming format.



Application Diagram

1.1 Package Content



1.2 Features

Key Features

- Embedded Linux with intelligent GUI design
- Connect to all major brands of IP cameras and video servers
- Each individual channel can support a maximum of 2.3 Megapixels (1920x1200) while the last channel is capable of supporting 5 Megapixels
- Supports local/server site preview, playback and setup from NVR directly
- Optional 1 internal SATA HDD and 1 external HDD via eSATA interface
- Built-in dual LAN ports for sophisticated network application
- Powerful remote software integration: CM3000/CM3000 Gold, Remote Console, WebViewer, JavaViewer, PDAViewer, 3GViewer, and iViewer.
- Compatible with AVerDiGi Touch Monitor
- Bundled with mouse (AVerDiGi MU3000/3100) for full function control.
- Compact size suitable for tiny space

IP Video Feature

- 4 channels network video input
- 4 channel network audio input
- Video streaming supported: MJPEG, MPEG4, H.264

Display

- VGA output in 1024x768 resolution
- Flexible display channel arrangement
- One click on channel number button to switch display channel
- Auto-scan support for live monitoring
- Zoom in any selected area in a channel when live monitoring

- Optimized de-interlace options for dynamic or static camera scenes

Recording

- VGA Recording frame rate: 120/100 fps (NTSC/PAL)
- Recording modes: continuous/ smart/ motion/ alarm/ manual recording
- All recording modes can be triggered by schedule
- Easy snapshot in preview and playback screen
- Support pre-recording up to 10 seconds

Search & Playback & Backup

- Playback at 2, 4, 8, 16, 32, 64, 1/2, 1/4 speed forward or backward
- Quick playback by searching date, time, camera, event, vision and log file
- Powerful intelligent search
- Advanced Event Log Viewer according to your selection on alarm, event, operation, system and network events
- Support direct burn to CD-R/RW/DVD-R/RW discs(external CD/DVD±RW device)

Video Enhancement

- iEnhance is the exclusive video enhancement software can adjust recorded data to the highest quality image
- iStable is the video stabilizer software which can fix shaking and jolts impact on video with just one click

Remote Access

- Central Management System (CM3000/CM3000 Gold)
- Remote Setup
- Remote Console
- WebViewer
- PDAViewer / JavaViewer / iViewer
- 3GViewer(via Dispatch Server)

E-map

- Shows the positions of cameras, sensors, and relays
- Store up to 8 different maps

Alarm Notification

- Email
- Start recording
- Trigger IP Camera Output Device
- Trigger EXR Server Output Device
- Send video to CMS and more
- PTZ Preset Position
- Trigger Emap

Others

- Watch dog function support to prevent unexpected system crash
- USB to upgrade system easily and quickly
- Free DDNS service

1.3 Front Panel



Name	Function
(1) DVR Power LED	Light when the unit is power on
(2) HDD LED	Indicate the hard disk running state. Light when the HDD is running (Read/Write)
(3) IR Sensor	Receive signal from the remote control to operate the unit
(4) USB 2.0 Port	For pen drive/DVD-ROM connection
(5) Network 1 Indicator	Indicate the status of network 1(Port LAN 1)
(6) Network 2 Indicator	Indicate the status of network 2(Port LAN 2)

1.4 Back Panel



Name	Function
(1) 2* USB 2.0 ports	For USB keyboard, mouse, and other USB devices connection.
(2) VGA Out	Output the video signal to a CRT or LCD monitor
(3) Audio In/Out	 Audio In: Input the audio signal from audio input device such as microphone Audio Out: Output the audio signal to a audio out device such as speaker
	The audio input/output device has its own power supply is necessary.
(4) Sensor In	Support 4 sensor devices
(5) Alarm Out	Support 1 relay device (Relay: 1A @ 125V AC/30V DC)
(6) RS-485	For future function, does not support now.
(7) Gigabit LAN 2 port	To connect the switch of your network for internet connection, remote accessing, and connection of IP camera.
(8) Gigabit LAN 1 port	To connect the switch of your network for internet connection, remote accessing, and connection of IP camera.
(9) e-SATA port	For connecting external RAID
(10)12V DC	Power cable connection

1.5 Setting Up the DVR Unit

1.5.1 Installing the Hard Disk



- For hard disk spec, please referring to <u>http://www.avermedia.com/AVerDiGi/Product/</u> \rightarrow **Pure DVR** \rightarrow **AVerDiGi EXR6004 Mini** \rightarrow **Hardware Recommendations**
- The DVR unit may include hard disk that depends on the model user has purchased. If the model user has purchased is included hard disk, user doesn't need to install the hard disk by yourself.

The "compatible hard disks" indicated in the above recommendation list only means that these commercially available hard disks were tested with AVerMedia products and functioned well under normal operation conditions. AVerMedia does not guarantee or provide warranties, explicitly, implied or statutory with respect to the reliability of the hard disk function or its compatibility. In no event AVerMedia shall be liable for damages, with respect to any business interruption of clients, lost profits, loss of programs or other data on your information handling system or otherwise. This includes direct, indirect, incidental, special, or consequential damages, resulting from the incompatibility caused by the usage of these hard disks, even if AVerMedia has expressly advised about the risk of such damages. The entire risk arising out of the use of any information attached here with is borne by the recipient.

The DVR unit allows user to install one hard disk. Follow the illustrated instructions below to install the hard disk:

2.

1. Loosen all screws



3. Secure the brackets on the hard disk





4. Connect the the SATA cable and the power connector to the hard disk

Push the cover backward and lift



5. Secure the hard disk inside the unit then place unit 6. Push the cover forward and secure the cover cover



7. You may now connect all the cables. When the power is connected, the Power LED light $-\dot{\Box}$ turns on

1.5.2 Connecting Devices

The back panel of the DVR unit, user can connect the 4 sensor devices, 1 alarm device, audio input/output device and an external HDD storage device. Through the two Gigabit LAN ports can connect with the IP cameras and allows user to remote access the DVR server. The USB ports can connect the mouse and keyboard for more easily to operate DVR server.

Follow the illustration below to make the connection:



1.5.3 Connecting the Audio, Sensor and Relay device

The Sensor, Alarm, and audio port enable you to connect 4 sensor inputs, 1 relay outputs, and 1 audio in and 1 audio out device. Just connect the external sensor, relay, and audio in/out device pin directly to the pinhole.

Check the table below and locate which pinhole is assigned to sensor input, relay output, and audio in/out.



The signal from the sensor (i.e., infrared sensors, smoke detectors, proximity sensors, door sensors, etc.) is being transmitted to the unit and this triggers the system to respond and send signal to relay device (i.e., alarm, telephone etc).

Audio in and out pinhole:

Pin #	Definition
1	Audio input signal
2	Audio Ground signal
3	Audio output signal
4	Audio Ground signal

Sensor and Alarm pinhole:

Pin #	Definition
5	Sensor 1 signal
6	Sensor 1 Ground signal
7	Sensor 2 signal
8	Sensor 2 Ground signal
9	Sensor 3 signal
10	Sensor 3 Ground signal
11	Sensor 4 signal
12	Sensor 4 Ground signal
13	Relay signal
14	Relay signal

Chapter 2 Operating the DVR unit

2.1 First Time Using the DVR Unit

- 1. Connect the mouse to the USB port located at front panel of the DVR unit.
- 2. Using the mouse and virtual keyboard (see also Chapter 2.1.1) to operate the DVR system.
- 3. Power on the DVR unit.
- 4. For security purpose, the DVR system would require you to enter User ID and Password before it can be accessed. (If this is the first time, enter the default ID [**superuser**] and password [**111111**]).



Preview UI

- 5. Formatting the hard disk.
 - a. Click Setup and enter the password
 - b. Click System \rightarrow Add
 - c. Select the hard disk from device list and select Format type
 - d. Click Format button to start formatting
 - e. When formatting is done, click **OK**.
- 6. Setup the date and time in order to have correct recording time and date.
 - a. Click **Setup** and enter the password
 - b. In Time section, click Setting button of System Time.
 - c. Select the date and adjust the time, and then, click OK.
- 7. Connect the IP camera.
 - a. Click Setup \rightarrow Camera
 - b. Select camera channel and type of camera IP Camera
 - c. And then, enable the camera
 - d. Click IP Setting
 - e. Enable **Protocol**, and then, select **protocol**, **mode**, **video format**, and **channel** of IP camera.
 - f. Enter IP address or URL of IP camera.
 - g. Enter ID and password if IP camera's access authority is required.
 - h. Click OK.
 - a. To connect another IP camera, follow the above steps.

2.1.1 Using the Virtual Keyboard

User can use the Virtual Keyboard when the keyboard is not available. Just click 📄 or right-click screen to call out the virtual keyboard. For uppercase, click **Caps** button. To exit, click **Esc**.



2.2 Familiarizing the Buttons in Preview Mode



Name Function (15) Full screen View in full screen. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon. Image: Comparison of the street of

When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.

full screen mode

(16) Alarm	Alert and display warning information.
(17) Virtual Keyboard	If the keyboard is not available, you may use the virtual keyboard.

2.2.1 Setting Up and Using the Emap

E-Map can hold up to 8 maps in *.jpg format. You may locate the camera, sensor and relay on the map.

2.2.1.1 To Set Up the Emap

- 1. Click Emap.
- 2. When the Emap screen appears, click the area number (1 to 8 buttons) on where you want to insert the map.
- 3. Click **Load Map** to insert the map. When the open dialog box appears, locate and select the map and click **Open**.
- 4. When the inserted map appears on the Emap screen, click **Edit**. You may now drag the camera, sensor, and relay icons to its place on the map. Icons on the map can be relocated anywhere. If you are going to locate the icon on the map to other area, you need to drag the icon to the black pane at the bottom of the Emap screen and then switch to the area on where you want to locate the icon. To bring all the icons back to the black pane at the bottom of the Emap screen, click **Reset Icon**.
- 5. When you are done, click **Save** button to save the new setting. To exit Emap screen, click **Close**.



2.2.1.2 To Use the Emap

- 1. Click E-map.
- 2. In the Emap screen, click the camera icon to switch on the area where the camera is located on the map and to display the video at the upper right corner of the Emap screen. At the lower right corner of the Emap screen, it lists all the warning message.
- 3. To view different Emap, click Emap number button $(1 \sim 8)$.
- 4. Click **Close** to exit Emap screen.

2.2.2 Familiarizing the Buttons in PTZ Camera Controller



Name	Function
(1) Close	Exit PTZ camera controller.
(2) Setup	Configure PTZ cameras.(see also Chapter 2.2.2.1)
(3) AutoPan	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(4) Focus +/-	Adjust the focus manually to produce clear image.
(5) Zoom +/-	Zoom in and out the image.
(6) Direction buttons	Adjust and position the focal point of the PTZ camera.
(7) Camera ID pane	Display the PTZ camera number that is being operated.
(8) Save Camera preset position	Save the PTZ camera preset position number. Select the camera and click the preset position number and save it.
(9) Camera lens speed controller	Adjust the moving speed of the PTZ camera lens.
(10) Camera preset position number	Move the PTZ camera to the preset point.
(11) Group AutoPan	Select to automatically operate PTZ camera in group.

2.2.2.1 Setup the IP PTZ Camera

When IP PTZ camera has successful connected with the DVR system, user can use the PTZ function directly without any configuration. To make connection of IP PTZ camera, please refer to <u>Chapter 3.2.1</u>.

In PTZ camera panel, user can setup the preset position of the camera. The number of preset positions are depend on the IP PTZ camera that user has connected. For example: A brand of IP PTZ camera only supports 4 preset positions. Therefore, user only can setup 4 preset positions on the DVR system. User can refer to the user's manual of the IP PTZ camera to make sure the number of the preset positions has supported.

Please follow the below steps to configure the preset position.

- 1. On Preview UI, select the channel that is an IP PTZ camera connection.
- 2. Click **PTZ** button from Preview UI and PTZ control panel will show up.
- 3. In the PTZ control panel, using the arrow button to adjust the position of IP PTZ camera.
- 4. And then, click **Setup** (see also <u>Chapter 2.2.2</u>). The Preset Settings window will show.

Preset Setting	gs		
Preset Number	01 💙 [Save	
DwellTime	4 🗸		
Show Preset Nam	ie		
Preset Name			
Restore AutoPan	Time: 10	seconds	
	(→ ()	OK Cance	1

- 5. Select the **Preset Number** to assign a number for the PTZ camera current position. And then, click **Save** to save the setting.
- 6. Set the **DwellTime** for how long the PTZ camera stays in that position before it moves to the next one.
- 7. Repeat step 3 to 6, if you want to save another preset position.
- 8. **Restore AutoPan Time:** set a time period for restoring auto path function after the PTZ camera has been moved manually. Mark the check box and set the time period in second.
- 9. Click **OK** to complete the setting.

2.2.3 Using Event Log Viewer

Show the record of activities that take place in the system.

O EVENT O O	PERATIO	N	Date 2009/01/24	
O SYSTEM O N	ETWORK	⊙ ALL	Refresh	_
Time	Camera	Type	Event	1
2009/01/24 09:10:18	00	OPERATION	Enter Setup	1
2009/01/24 09:10:40	00	OPERATION	Enter Setup	E
2009/01/24 09:10:50	00	SYSTEM	Exit DVR	0
2009/01/24 09:12:26	00	SYSTEM	Start DVR	0
2009/01/24 09:13:39	01	EVENT	Video Loss	
2009/01/24 09:13:39	02	EVENT	Video Loss	
2009/01/24 09:13:39	03	EVENT	Video Loss	
2009/01/24 09:13:39	04	EVENT	Video Loss	
2009/01/24 09:13:39	05	EVENT	Video Loss	
2009/01/24 09:13:39	06	EVENT	Video Loss	
2009/01/24 09:13:39	07	EVENT	Video Loss	
2009/01/24 09:13:39	08	EVENT	Video Loss	
2009/01/24 09:14:55	00	SYSTEM	Login DVR (1)	0
2009/01/24 09:14:58	00	OPERATION	Enter Setup	6
2009/01/24 10:43:36	00	SYSTEM	Start DVR	0
2009/01/24 10:43:36	00	SYSTEM	Load LastGood	(3
			POSViewer	ose

- 1. Click the Event Log button on DVR system main interface. The Event log viewer window will show up.
- 2. Select the **Date** to view.
- 3. To filter the records, select and click the select button to display **Event**, **System**, **Operation**, **Network** or **All**.
- 4. Use the scroll button to go next, previous, first, or last page of event list.
- 5. To find event log by keyword, enter keyword in Find Text column and click Search.
- 6. The events list which display on the screen can be saved as text file format. To save the events list, click **Save** button.

2.3 To Playback the Recorded Video

To switch in Playback mode, click **Playback** button at the lower right corner of Preview mode user interface.



Control Buttons	Previous: Go back to the previous frame.
	Slower: Play the recorded video file at the speed of 1/2X or 1/4X.
	Rewind: Wind back the recorded video file.
	Pause: Briefly stop playing the recorded video file.
	Play: Play the recorded video file.
	Faster: Play the recorded video file at the speed of 2X, 4X, 8X, 16x, 32x, or 64x.
	Next: Go to the next frame.
	End: Go to the end of the recorded video file.

Function

Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.



0

The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.

(6) Preview	Switch to Preview mode.	
(7) Playback	Switch to Playback mode to view the recorded video file.	
(8) Status bar	Display the recorded date, time and play speed.	
(9) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode,	
	click the camera ID number to switch and view other camera.	
(10) Export	Export includes Snapshot, Output Video Clip, and Backup function.	
	Snapshot: Capture and save the screen shot in *.jpg format.	
	Output Video Clip: Save the segmented file in *.dvr format to external USB storage	
	device (see also <u>Chapter 2.3.1</u>).	
	Backup: Save the playback file to external USB device or external DVD burner.	
(11) Segment	Keep a portion of the recorded video (see also Chapter 2.3.1).	
(12) Full screen	View in full screen. To return, press the right button of the mouse or ESC on the keyboard	



	Tuil screen mode					
	When you switch to full screen in multiple-screen mode, Left click to toggle to only displ					
	one of the video in the multiple-screen mode or all.					
(13) Event log	Show the record of activities that take place in the system. To filter the records, select and					
	click the option button to only display Event, System, Operation, Network or All.					
(14) Bookmark	Mark a reference point when reviewing the recorded video file to which you may return for					
	later reference (see also Chapter 2.3.2).					

Click to exit from

Name	Function
(15) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Event Search function.
(16) Event Search	Search from the recorded activities that were recorded in event log (i.e., Sensor, Motion, Video Loss)(see also Chapter 2.3.3)

2.3.1 To Cut and Save the Wanted Portion of the Recorded Video

1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click **Segment** to set the begin mark.

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation or set the segment marks from the start, click **Segment** button again.

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

- 3. Click Export > Output Video Clip button to save the wanted portion.
- 4. In the **Save As** dialog box, locate on where user wants to save the file, type the filename, and select the video format.

2.3.2 To Bookmark a Video Section

- 1. Click Bookmark button
- 2. In the Bookmark dialog box, you may do the following:
 - Add to create the new reference mark in the bookmark list.
 - Edit to change the mark description.

- Delete to remove the selected reference mark in the list.
- Delete All to remove all the reference marks in the list.
- Exit to close Bookmark dialog box.
- 3. Select and click one in the bookmark list to review the file.



2.3.3 Using the Event Search

- 1. Click on the video screen on where you want to search.
- 2. Click Event Search. The Event Search Setting dialog box would appear on the screen.
- 3. In the Event Search Setting dialog box, check the type of condition you want to search. Then, click **OK** to start searching. The video search would stop at the frame that matches the condition. To keep on searching click **IP** .
- 4. You may also set to search and list all the result. Set the **Begin Time** and **End Time**. Set the **Searching Interval** time for in a period of time won't list out the same events. Then, click **OK** to start searching.

The DVR system will set the date of **End Time** at 3 days later of Begin Time automatically. If event data are less than 3 days, the DVR system will set End Time at current date. Time of End Time is adjustable.

5. When the Event list appear, click and select the item you want to view.

Event Se	earch Setting	9
Sensor	Motion	Video Loss
Searching D	uration	- Million - Mill
Begin Time	2008/11/26	P.M. 03:46:54 🛟
End Time	2008/11/26	P.M. 03:46:54
Searching In	terval 3 💙	Seconds
12443	ОК	Cancel

Chapter 3 Customizing the DVR System

In the Preview screen mode, click solution to customize your DVR. Enter the ID and password to authenticate(Default ID is **superuser** and password is **111111**).

When the DVR configuration setup selection appears, select and click the buttons you want to change the setting.



3.1 System Setup

In the System Setting dialog box, click **OK** to accept the new settings, click **Cancel** to exit without saving.

Storage Path				Miscellaneous			
Disk Name	Free Space Capa	acity	Status	Playback Mode	Play the	last file	V
SATA-0:WD20EADS-22R6B0	0.0 GB 0.0 GI	В	Error	Date Format	mm/dd/yy	/yy	V
				AutoScan Period	3 🗸	Sec.	
				_Login			
				Auto Login after sy			
	Add		Delete	Auto Record after s			
Delete recorded data after:	7	Day	s	Auto start Network Default User	superuse	•	~
Delete event and alarm log after the second seco	er: 🔉 🔞) Day		□ Date and Time Setting-			
Overwrite Enable				System Date and Time	e 01/23/2000	03:57:17	Setting
System Language				Daylight Saving Tim	ie		
Language English		~		Start Date/Time	0000/00	/00 00:00	etting
				End Date/Time	0000/00	/00 00:00	etting
POS				Daylight Bias	00 🗘	00 🗘	
	Setting			Firmware			
Configuration	Touch Monitor	r		Product Version	XMR 02.01.0	0.05 U	pdate
Import Export	Connect		Adjust	IPCam Module	1.0.0.50b	n leu	polision
	11				-		
					ОК	Cancel	Defaul
		_					

(1) Storage Path

Set the HDD on where to save the data. In case you have more than one storage device, the system automatically saves the data to the next storage device. To insert another storage device, click **Add** and select the storage path. To remove the selected path, click **Delete**. If the hard disk is the first time for DVR system, please format the hard disk before starting to use it. To format the hard disk, select the hard disk and **Format Type**, and then, click **Format** button.

(2) Delete recorded data after

If you want the system to automatically erase the data after a certain days, enable the **Delete recorded data after** check box and enter the number of days in **Days** text box.

(3) Delete event and alarm log after

If you want the system to automatically erase the event and alarm log after a certain days, enable the **Delete event and alarm log after** check box and enter the number of days in **Days** text box.

(4) Overwrite Enable

When there is not enough free space to record one hour data, the system automatically replaces the oldest data.

(5) Language

Customize the system to display the tool tips and dialogs based on the selected language. Default language is in English.

(6) Configuration

Backup a copy of all the settings and allows you to regain the same settings back. To save the current settings, click **Export**. To replace the settings with the one you have saved, click **Import**.

(7) Touch Monitor

When DVR server is connected with touch monitor, user needs to adjust touch monitor in order to work normally.

- 1. Connect the touch monitor with DVR server.
- 2. Turn on the DVR server and touch monitor power.
- 3. Select Setup \rightarrow System \rightarrow Touch Monitor \rightarrow Adjust.
- 4. The adjusting window will show up.

+
Please touch the cross points one by one.
Warning: This window will be closed automatically in 3 minutes.
ck + one by one to complete the adjustment.

- 5. Clic by one to complete the adjus
- 6. To disconnect touch monitor, click **Disconnect** button first, and then, turn off the power of touch monitor and remove the connection between DVR server and touch monitor.

(8) Miscellaneous

- Playback mode: Select the mode of playback the video.
 - **Select date and time:** Select the date and time which user wants to playback.
 - Play the last file: Automatically playback the video from the last hour
 - **Instant Playback:** Automatically playback the video which has just recorded

Date Format

Select the date format which wants to display in select date and time playback mode

Auto Scan Period

Set the time gap of the Auto Scan function from 3 to 10 seconds. This automatically switches to the next video in cycle depending on the set time gap.

(9) Login

Enable the conditions in Login section you want the system to automatically carry out.

- **Auto Login after system boot up** Execute the DVR when the operating system is started.
- **Auto Record after system boot up** Automatically start video recording when the DVR is executed.
- Auto start Network after system boot up
 - Automatically start network connection when the DVR is executed.
- Default user

Automatically log in to the selected default user when the DVR is executed.

(10) Date and Time Setting

Adjust the DVR system time and date. Click **Setting** to select the month, date, hour, and minute.

Mark **Daylight saving** check box to enable daylight saving function. And then, select the **Start** and **End Date/Time** by click **Setting**.

Daylight Bias: Assign a time that it is for daylight saving time offset in your time zone. For example: if the time zone is in U.S. Eastern, the time offset is 1 hour.

(11) Firmware

- **Product Version Update:** Upgrading the firmware of DVR system.
 - 1. Click **Update** button, a **Firmware Upgrade** window will show up.

Firmware Update		
⊙ Update from USB device	USB-1:U3	V
Current firmware version:	XMR 02.01.00.01	
New firmware version:	XMR 02.01.00.05	
Ready to update.	ОК	Cancel

- 2. Save the firmware on root directory of USB disk. And then, plug USB disk into DVR unit.
- 3. Select the USB disk if there is more than one USB disk from drop down list. The DVR unit will auto detects the firmware.
- 4. Click **OK** to start upgrading.

3.2 Camera Setup

Click **Default** will back to the factory default value.

3.2.1 To Setup the IP Camera



(1) Camera Icons

Select the camera number you want to view. To enable/disable all cameras, click ALL check box.

(2) Enable

Set to enable/disable the selected camera. When there is no video source on the camera, we suggest disabling it so that the system won't detect it as video loss error.

(3) Input

Select the camera type as IP Camera.

(4) Camera

- Display

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.

- Enable Audio

Enable/disable audio of the camera.

- Name

Change the camera name

- Description

Add a short comment

(5) IP Camera Information

- Use IP Camera Motion: Mark to enable the motion detected function if the IP camera has supported.

To setup IP camera and display current IP camera information.

■ IP Setting: Click IP setting to add the IP camera.

	ACTI	
 Protocol 	ACTI	
Model	ACM-4200	
Video Format	AUTO	
<u>.</u>		
Channel	1	
IP Camera Site	192.168.0.66	: 80
OURL		
-		
http://		
 Authentication 		
Authentication		

- 1. Click the radio button of **Protocol** to start setup IP camera.
- 2. Select the Protocol, Model, Video Format, and Channel of the IP camera.
- 3. Enter IP address and connecting port in IP Camera Site column.
- 4. Also, user can enter URL of IP camera instead of IP address.
- 5. If the IP camera has authority request, please enable **Authentication** and enter **ID** and **Password**.
- 6. Click **OK** to connect with the IP camera.
- Detail: To adjust IP camera parameters, click Detail. Click Default will back to the factory default value.

/ideo Setting		can	nera1	Contra Co
Video Size	4CIF			
Frame Rate	N/A			
Bitrate Mode	Variable Blt Rate			
Quality		100		
Bright	1	100		-
Contrast	1			
Hue	<u> </u>			
Saturation	<u>[</u>		Max Resolution: 1920) X 1200
I/O Control				
Sens	or Relay			

User can select Video size, Frame rate, Bitrate mode and Quality of camera. Also, user can adjust Bright, Contrast, Hue, Saturation, and I/O Control of the camera.



The selection and adjustment items may vary by the camera supported.

I/O Control: Setup the sensor and relay that is embedded on the IP camera.

Sensor Setting

- 1. Click Sensor button.
- 2. Click the drop-down list and select the sensor ID number.
- 3. Enter sensor name in Name column

- 4. The system automatically detects the camera and input relates information. In the Content section, enter sensor **Description**.
- 5. In the test section, click **Test** to check the sensor status. **Red** is high and **Green** is low.
- 6. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

Sensor Setting				
Sensor 1	\checkmark			
Name				
Content				
Camera	1			
Protocol	Panasonic			
Model	BB-HCM515			
Description				
Test				
High	Stop			
	OK Cancel			

Relay Setting

- 1. Click **Relay** button.
- 2. Click the drop-down list and select the relay ID number.
- 3. Enter relay name in **Name** column
- 4. The system automatically detects the camera and input relates information. In the Content section, enter relay **Description**.
- 5. In the test section, click **Test** to check the relay status. **Red** is high and **Green** is low.
- 6. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

Relay Setting				
Relay 1	\checkmark			
Name				
Enable				
Content				
Camera	1			
Protocol	Panasonic			
Model	BB-HCM515			
Description				
Test				
High	Stop			
	OK Cancel			

3.2.2 To Setup Camera from the Remote DVR

User can add the camera from another DVR through the network.

	Camera Setting		
(1)—			
(2)-	I 02 03	04	
	_ Input		
(3)-	 IP Camera 		camera2
	O Remote DVF	2	
(Λ)	Camera		camera2
(4)-	Display	Enable Audio	A CONTRACT AND
	Name		
	Description		
(5)			
(5)-	IP	192.168.0.100	
	Port	80	
	User ID	superuser	
	Password	******	
	Channel	1	
		Connect	
			OK Cancel Default
			OK Cancel Derault

(1) Camera Icons

Select the camera number you want to view. To enable/disable all cameras, click **ALL** check box. **(2) Enable**

Set to enable/disable the selected camera. When there is no video source on the camera, we suggest disabling it so that the system won't detect it as video loss error.

(3) Input

Select the camera type as Remote DVR.

(4) Camera

- Display

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.

- Enable Audio

Enable/disable audio of the camera.

- Name

Change the camera name

- Description
 - Add a short comment
- IP

Enter the IP address of the camera

- Port

The port for connection

- User ID

Enter the user id that for connecting authority

- Password
 - Enter the password that is for connecting authority
- Channel Select the channel of connected camera

- Connect

Click to connect the camera when all configurations are set.

3.3 Recording Setup



(1) Camera Icons

Select the camera number you want to set the recording setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, **Right click** on the camera icon. To select one camera only, **Left click** on the camera icon. The camera icon turns purple when it is selected.

(2) Recording Mode

The horizontal blocks from 00 to 23 represent the time in 24-hour clock and the vertical block 1 to 7 represent the day in the week block (Sunday to Saturday). To record in full 24 hours and 7 days a week, select the recording mode and click the \odot button. If you want to only record at a particular time or day, click **Schedule** button and select the **Recording Mode**, and then click on the time or day blocks. When the system starts recording a red triangle mark would appear at the upper left corner of the screen. The recording modes are listed below:

- Always Recording

Record the video from the selected camera and save it to the designated storage device

- Motion Recording

Start recording the video from the selected camera only when the system detects movement. Once a motion is detected, the system automatically saves the previous frames and stop based on the **Start Record Prior** and **Stop Record After** settings.

- Smart Recording

Automatically switch to recorded at the maximum frame rate setting once a motion is detected and if there is no motion, it records at the minimum frame rate setting.

- No Recording

The system won't do any recording.

(3) Motion Detection

Adjust the sensitivity of the motion detection. The higher the value, the finer the sensitivity is detected. When it detects a motion, a green triangle mark would appear at the upper left corner of the screen.

3.4 Network Setup

Click Default will back to the factory default value.

Server Name	WebViewer Configuration
Server Name	Enable Anonymous Login WebViewer PORT 80
	Network Time Synchronization
Main Configuration	Time Server:
Remote Console PORT 5550	Synchronize Time Right Now
Remote Update Configuration PORT 5005	Other Configuration
	Network Bandwidth Limit

(1) Server Name

Assign a name for the DVR unit. Alphabet letters and numbers only.

(2) Transmitting Cameras

Select and click on the camera number in the Transmitting Camera section you want to make it accessible via internet using WebViewer, Remote Console, CM3000(Gold),PDA Viewer and JAVAViewer (still image). To select all the cameras, enable the **ALL** check box.

(3) Main Configuration

Set the DVR IP address and **Remote Console Port**. You need this when accessing DVR server from the remote location via internet.

The DVR system supports dual LANs, therefore, user can select the **Server IP** from the drop-down list and click **Setting** to configure the detail.



The default IP of the DVR server is 192.168.2.2 for LAN1 (lower LAN port in the back of the DVR) and 192.168.3.2 for LAN2 (upper LAN port in the back of the DVR).

stem IP setting	PPPOE		
Obtain an IP automatically(DHCP)	User ID		
PPPOE	Password		
P Information			
P			
Mask	Domain Name		
Gateway	Password		
DNS	DDNS Server Name	ddns.avers.com.tw	
MAC Address 00:18:0a:3e:2e:1d	DDNS Server Port	1053	

Using the following IP address: Assigns an IP address for the DVR system. Fill in the IP related parameters in IP information section.

- IP: Assign a constant IP address which a real IP address gives from ISP to DVR system.
- **Mask:** It is a bitmask used to identify the sub network and how many bits provide room for host addresses. Enter the subnet mask of the IP address which user has assigned to DVR system.
- Gateway: A network device acts as a passageway to internet. Enter the network gateway IP address
- **DNS:** Domain Name Server translates domain names (such as www.abb.com.tw) to IP addresses. Enter the IP address of DNS if it is available.
- **MAC Address:** An identifier hardware address of DVR unit that is assigned by the manufacturer for identification. User don't need to fill in, it will generated by system automatically.
- Obtain an IP automatically (DHCP): Assign the IP address by local DHCP server to DVR system.
- PPPOE: Point-to-Point Protocol over Ethernet is a network protocol for encapsulating PPP frames in Ethernet frames. It is used mainly with ADSL services. If your network is using ADSL service connecting to internet, and then, select PPPOE mode. Enter User ID and Password that is given by your ISP for PPPOE connecting authority.
- DDNS: DDNS(Dynamic Domain Name Service) is a data query service mainly used on the Internet for translating domain names into Internet addresses. Users can register their own domain name on http://ddns.avers.com.tw. (See <u>Appendix A</u>)
 - Domain Name

Enter the domain name that user has registered.

- Password

A password use to access DDNS that user has setup when register the domain name

- DDNS Server Name Select your DDNS server. The default only has one DDNS server now. It may provide more DDNS in future.
- DDNS Server Port

Fill in the port that connects to DDNS server. Default is 1053.

(4) Remote Upgrade Configuration

A port is using for the remote firmware upgrade through network.

(5) WebViewer Configuration

Activate **Enable Anonymous Login** to remotely access the DVR server without the need of password. Fill in the **WebViewer PORT** for remote accessing connection.

(6) Network Time Synchronization

Adjust the DVR system time same as network time server. Fill in the **Time Server** IP address or domain name and select the **Time Zone**. User can enable **Automatic Synchronize at** to set automatic synchronize time on a daily basis. Or, user can click **Synchronize Time Right Now** to adjust time right away.

(7) Other Configuration

- Enable White List

An access permit list for the remote accessing of DVR server. Enter the IP address and click **Add**. Or, enter a range of IP address and click **Add**. To delete the IP from the list, select the IP and click **Delete** button. To reset the input, click **Clear** button.

⊃ IP	192.168.0.1		
IP Range	192.168.0.1	- 192.168.0.255	
Add	192.168.0.1 - 192 192.168.0.1 - 192		
Delete	192.168.0.1 - 192 192.168.0.1 - 192 192.168.0.1 - 192	.168.0.255	
Clear All	192.168.0.1 - 192 192.168.0.1 - 192 192.168.0.1 - 192	.168.0.255	
	192.168.0.1 - 192 192.168.0.1 - 192 192.168.0.1 - 192	.168.0.255 .168.0.255	
	192.168.0.1 - 192 192.168.0.1 - 192	.168.0.255 .168.0.255	
	192.168.0.1 - 192	.168.0.255	

- Network Bandwidth Limit

By Channel: Set the network bandwidth by each channel. **All:** Set the total network bandwidth consumption limit.

O By Channel			
Camera 1	V	64	KB/s
2 Au			
) All			
3.5 Schedule Setting

Schedule to record, enable network, reboot and disable alarm of all the cameras either weekly or one time. The number from 00 to 23 represent the time in 24-hour clock. The left most column display the days in a week.

	<					200	08/07	7					>			R	ecol	rd					1	
	Su		Mo		Tu		We		Th		Fri.		Sat.			1.4]	
	29		30		1		2		3		4		5				6	w	eek	lv.				
	6		7		8		9		10		11		12			3			CON	, y				
	13		14		15		16		17	_	18		19					0		Time				
	20		21		22		23 30		24 31		25	- 25	26 2			2			10 1	inte	'			
	3		4		5		6		7		8		9				1	D,	emo					
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	2:
Sun		200920	honer					101210	-	1000000							1000000					010310	CEALING	
Mon											1					- Ĵ	- j							
Tue																								
Wed																1	- Ĵ							
Thu																								
Fri																- Ű	- Ĵ							
Sat																								
																					7	N		

To Set the Schedule Setting:

- 1. Select the date in the calendar. Use Image: Select the date in the calendar. Use Image: Select the date in the left or right.
- 2. Select the condition you want to schedule in the drop down list.
 - Record

Activate all the cameras to start video recording at the set time based on the Recording setting

- Enable Network

Activate DVR remote system to access at the set time. After the appointed time, the Network function will be disabled. If the Network function is already enabled, the Network function will not be disabled when the appointed time has ended.

- Reboot

Restart the PC at the appointed time.

- Disable Alarm

Deactivate the alarm at the set time temporarily.

- 3. Set the schedule as weekly or one time. Click \odot to make a selection.
- 4. Click on the blocks to set the schedule or click **All** to select all. To un-select the specific schedule blocks, click the **Remove** and click blocks to un-select. To store the setting, click **Save**. To remove the settings, click **Clear**.
- 5. To end Schedule Setting, click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

3.6 Backup Setup

In the Backup Setting dialog box, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera number. When you back up the file, you may find Qplayer application included in the backup folder. To run the Qplayer application, click Oplayer.exe in back folder. (see also Chapter 3.7.1)

<	2000/01	I	×	Require Space	
Sun. Mo	on. Tue. Wed			0.00 MB	
26 27		30 31 1		0.00 MB	
2 3 9 10		6 7 8 13 14 15		Free Space	
16 17		20 21 22		0.00 MB	
23 24		27 28 29		0.00 MB	
30 31		3 4 5			
				Rescan Device	
Delete re	ecorded files af	er Backup			
Save path	N/A			Backup Now	
Folder Nam	e Backup				
00 01	02 03 04 05	06 07 08 09 10	1 12 13 14	15 16 17 18 19 20 21 22 23	
02					
03 04					
04					

- 1. Select the date of the recorded file in the calendar you want to backup. Use ≤ and ► buttons to shift the calendar to the left or right.
- 2. In the table above, click on the blue block to select the recorded file or click camera (01~04) or time (00~23) to select the whole row or column. The blue block turns red when it is selected. The block that appears in white doesn't have data. If you want to set the specific time, right-click on the selected block. Then, set the time to start and end.
- 3. Check the space need for backup next to the calendar. Click **Rescan Device** to calculate the space for backup.
 - Require Space: Show the total size of the backup file.
 - Free Space: Show the available storage space
- 4. If you do **NOT** want to keep the recorded file in the storage folder, enable **Delete files after Backup** check box.
- 5. Select the backup device USB disk or DVD-ROM device.
- 6. DVR system will give **Folder Name** automatically.
- 7. Click Backup Now to start archiving the selected file.

3.6.1 Using QPlayer to Playback Backup Video

You can playback the backup files using QPlayer applications on the PC. When you back up the recorded file, QPlayer applications are automatically included in the backup folder. With QPlayer, it is the same as in Playback mode and supports different split screen types to view all the video at the same time. The only difference is that there are no Preview and Playback buttons.

To run the application, go to backup folder and double-click **Qplayer** .exe to run the QPlayer.



Name	Function
(6) Archive	 Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file. OPEN FILE: user can open the recorded file from HDD Day Light Saving: the playback calendar will show the available video records during day light saving time period.
camera I	bers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the D. The blue colored column indicates that there is a recorded video file on that period of time. e red colored column indicates on where to start playing the recorded video file.
(7) Status bar	Display the recorded date, time and play speed.
(8) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(9) Language	Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.
(10) Export	 Export includes Snapshot, Print, and Output Video Clip function. Snapshot: Capture and save the screen shot either in *.jpg format. Print: Print the screen shot. Output Video Clip: Save the segmented file in *.dvr, *.avi, or *.mpg format.
(11) Segment	Keep a portion of the recorded video (see also Chapter 3.7.2).
(12) Full screen	View in full screen mode. To return, press the right button of the mouse or ESC on the keyboard or click the arrow icon.
(13) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Intelligent Search or Event Search function.
(14) Event Searc	h Search from the recorded activities that were recorded in event log (i.e., Sensor, Motion, Video Loss). (See also <u>Chapter 3.7.3</u>)
(15) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 3.7.4).
(16) Audio	Enable/disable volume
(17) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

Name	Function
(18) Watermark	To verify the playback video has not been modified
	To verify the playback video doesn't been modified. Click 🛞 to check the video.
	Watermark verification window will show up as following:
	Check Watermark
	Accurate Ratio
	This light indicates watermark verification pass or fail
	PASS: green light FAIL : red light
	Watermark verification function is not supported with hardware compression product,EB,IP camera right now.

3.6.2 To Cut and Save the Portion of the Recorded Video

1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click **Segment** to set the begin mark.

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation, click **Segment** button again.

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

- 3. Click **Export > Output Video Clip** button to save the wanted portion.
- 4. In the **Save As** dialog box, locate on where user wants to save the file, type the filename, and select the video format.

3.6.3 To Search Using the Event Search

1. Click on the video screen on where you want to search.

- 2. Click Event Search. The Event Search text (red) would appear at the lower left corner of the screen.
- 3. In the Event Search Setting dialog box, check the type of condition you want to search. The video search would stop at the frame that matches the condition. To keep on searching click 🗉 📟.
- 4. You may also set to search and list all the result. In the **Search Duration** section, set the **Begin Time** and **End Time**. Set the **Searching Interval** time that system won't list out the same events in a period of time that user has setup. Then, click **OK** to start searching.
- 5. When the Event list appear, click and select the item you want to view.

3.6.4 To Search Using the Intelligent Search

- 1. Click on the video screen on where you want to search.
- 2. Click **Intelligent Search**. The Intelligent Search text (red) would appear at the lower left corner of the screen.
- 3. When the Intelligent Search Setting dialog box and motion detector frame appear, you may adjust the sensitivity bar and the motion detector frame size and location. To set motion detector frame size and location, left click and drag on the screen. Then, click OK to start searching. The video search would stop at the frame that matches the condition. To keep on searching click Image. You may also set to search and list all the result. Just check the List box. In the Search Duration section, set the Begin Time and End Time. Set the Searching Interval time that system won't list out the same events in a period of time that user has setup. Then, click OK to start searching.



3.7 Sensor Setting

The I/O device must be installed to use this function.

- 1. The system automatically detects the I/O device that has connected with DVR system and display on the drop-down list column. Click the drop-down list and select the sensor that user wants to configure.
- 2. Enter sensor name in Name column.
- 3. In the **Content** section, enter **Description** of sensor.
- 4. In the test section, click **Test** to check the sensor status. **Red** is high and **Green** is low.
- 5. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

Sensor Sett	ting
Sensor01	\checkmark
Name	
Content-	External IO
Card No.	1
Input No.	01
Description	
- Test	Stop
(OK Cancel

3.8 Relay Setting

The I/O device must be installed to use this function.

- 1. The system automatically detects the I/O device that has connected with DVR system and display on the drop-down list column.
- 2. Enter sensor name in Name column.
- 3. In the **Content** section, enter **Description** of relay.
- 4. In the test section, click Test to trigger relay. Red is high and Green is low.
- 5. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

Relay Settin	Ig
Relay01	\checkmark
Name	
Content	External IO
Card No.	1
Input No.	01
Description	
Test	
High	Stop
	OK Cancel

3.9 Alarm Setting

In the Alarm Setting dialog box, click **Add** to insert and set new alarm setting, click **Delete** to remove the selected alarm setting, click **OK** to exit and save the setting, **Cancel** to exit without saving. Click **Default** will back to factory default value.

Enable Time 00 01 02 03 04 05 06 07 08 09 10 11 12	2 13 14 15 16 17 18 19 20 21 22 23		Add No. Nam	
		Enable	1 Alarm	11
Conditions ⊙ Trigger if any ○ Trigger if all Camera Motion Detected	Action			
01 02 03 04 Video Loss	Enlarge Camera View Relay Output	Detail		
01 02 03 04 Audio Detected	IP Camera Relay	Detail		
C Sensor	Play Warning Sound			
High	Send E-Mail	Detail		
01 02 03 04 Low	File Transmission via FTP	Detail		
01 02 03 04	Start Recording	Detail		
IP Camera Sensor		Detail		
	PTZ preset point	Detail		
Abnormal Event Detail POS Keyword Detail	Alarm SOP	Detail		
Alarm Reset	Send to CMS	Detail		
High	Snapshot	Detail		
Low				
01 02 03 04				
IP Camera Sensor				
		(→) OK		ancel Default
		UM OK	Ca	ancel Default

- 1. Click **Add** to insert and set a new alarm setting. Click the items in the **(8)** Alarm Setting List if you want to modify the alarm setting.
- 2. In (1) No./Name/Description enter alarm name and description. Alarm No. will be created by DVR system.
- 3. In **(2)** Enable Time, the number from 00 to 23 represent the time in 24-hour clock. Select the time and click the block you want to activate or deactivate the alarm function. When it is deactivated the color of the block turns white.
- 4. In (3) Conditions, you can set "Trigger if any" to activate if it falls to one of the conditions or "Trigger if all" to activate if it falls to all conditions.
- 5. In **(4)** Camera section, select and click on the camera number (01 to 04) in **Motion Detected** and **Video Loss** to set the condition for the system to alarm.
- 6. In **(5)** Sensor, select and click on the sensor number to set the condition for the system to alarm. If the sensor normal status is high, set the sensor condition to low.
 - IP Camera Sensor: To adjust sensor high/low that is connected on the IP camera.
 - Enable/disable the **Abnormal Event** check box, to set the condition of the event for system to alarm.

Abnormal Event
Reboot
Abnormal Reboot
Recording is switched off
Network is switched off
Hard Disk failed
OK Cancel

- Reboot: when the DVR system reboot without abnormal condition, the system will send out the alarm message.
- Abnormal Reboot: when the DVR system reboot in irregular condition, the system will send out the alarm message.
- Recording is switched off: when the recording has been stopped, the system will send out the alarm message.
- Network is switched off: when the network connection of DVR system is lost, the system will send out the alarm message.
- Hard Disk failed: when the hard disk doesn't work normally, the system will send out the alarm message.
- **Continue trigger duration:** Set a time period that when sensor has been trigger and stay in the same status for that period, then the alarm will be sent out.
- 7. In **(6)** Alarm Reset, click the camera number to set the reset condition of alarm. Once alarm is reset, all alarm action will stop at the moment. If the sensor normal status is high, set the alarm reset condition to low.
- 8. In **(7)** Action, you may now set the alarm action for the system to perform when the alarm condition is activated.
 - Launch E-Map: Display mini E-map screen.
 - Enlarge Camera View
 - Switch to only display video in Preview mode from where the alarm is activated.
 - a. Select the camera from drop down list to specify which camera video to be enlarged on screen when the alarm is triggered.
 - b. Retrieve time: set the waiting duration before system switching back to original Preview mode. If the retrieve time is un-mark, the alarm video will keep enlarging until user switch back to Preview mode manually. The retrieve time range is 0~ 600 seconds.

Enlarge Came	ra View	
Camera01 🗸		
Retrieve time	3	Sec.
↔	ОК	Cancel

- Relay Output

Set to enable/disable the relay operation when the alarm is activated and to extend additional time in second before it stops the relay operation.

- 1. Next to the Relay Output check box, click **Detail**.
- In the Alarm Relay dialog box, select from the available relay list and in the ON column, set to enable/disable the relay operation when the alarm is activated.
- In the Retrieve time check box, you may enable/disable to extend the relay operation time and set the duration in second.
- 4. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

-	IP	Camera	Relay
---	----	--------	-------

Set to enable/disable the relay operation when the alarm is activated.

- Play Warning Sound Play alarm sound.

- Send E-mail

Send an electronic text message. Next to the Send Email check box, click **Detail**. In the E-mail Setting dialog box, click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.

Authenti	cation					
ID			Passw	ord		
Mail				Messag	je	
From:						
То:				1		
CC:				Ĩ.		
Subject:				1		
Snapshot-						
Enable						
Select C	amera	N/A		/		
	ze	N/A	~	/		

(1) Mail Server

Enter the **SMTP Server** and **port**. If your e-mail system requires user identification, enable **Authentication** check box and enter **ID** and **Password**.

(2) Mail

Fill the mailing information.

From: Enter the sender e-mail address.

To and CC: Enter the recipient email address and separate it with comma or a semicolon (;). **Subject:** Enter the message title.

Message: Type the message.

No.	Name	Status
01	Relay01	Off
Retrieve time	2	Sec.

- Start Recording

Record the video from the selected camera.

- 1. Next to the Start Recording check box, click **Detail**.
- In the Alarm Recording Setting dialog box, select the camera to enable/disable video recording. Enable All to select all cameras.
- In the Frame Rate selection, select As Setting to record the number of frames based on the Recording Setting.
- In the Start Record prior text box, mark and set the number in second for the program to begin recording after the alarm has been trigger. The time range is 1~10 seconds.

All Recording Cameras			
	5 6	7	8
9 10 11 12	13 14	15	16
Frame Rate			
Start Record prior		0	Se
Stop Record after		0	Se

- 5. In the **Stop Record after** text box, mark and set the number in second for the program to continue recording after the alarm has ended. The time range is 1~999 seconds. If user doesn't mark and set the time, the alarm recording will continue recording until alarm is reset.
- 6. Click **OK** to accept the new settings and **Cancel** to exit without saving.

Send to CMS (Central Management System)
 Enable/disable the selected camera to send video to CMS when the alarm is activated.
 Next to the Send to CMS check box, click Detail.
 In the CMS Setting, select the camera to enable/disable sending the video to CMS. Enable
 All to select all cameras. Then, click OK to accept the new settings and Cancel to exit without saving.

All	mitting	Camer	as				
and a second sec	on the second states of the	3	and the second	5	6	7	8
9	10	11	12	13	14	15	16

3.10 User Setup

Only administrator level authority can access User Setting. The maximum user accounts are 32. In the User Setting dialog box, click **Add** to insert a new user, **Delete** to remove the selected user, **Edit** to modify the user control right, **OK** to exit and accept the setting, and **Cancel** to exit without saving the setting.

Level	Name	Description
Administrator	superuser	
User	user	

To Add a User Account:

- 1. In the User Setting dialog box, click Add.
- 2. Select and fill in the following information.

	User Setting			
(1)-	Authorization Level	 Administrator 	Visible camera	4)
(2)-	Control Right	✓ Relay		
	 ✓ Camera ✓ Record 	 ✓ Alarm Setting ✓ Playback 	Time Span	5)
	Vetwork	 ✓ Power OFF ✓ Reboot 	Activation Date Expiry Date	
	✓ Backup✓ Sensor	✓ PTZ✓ E-Map		(C)
(3)	WebViewer Remote Console Remote Record	 ✓ Remote LogViewer ✓ IP Camera ✓ Remote Setup 	Name (Description (Password (Confirm Password (6)
	Remote Access time	Minute	OK Cancel Default	

(1) Authorization level

Select the status of the user.

(2) Control Right

Enable the items that would allow the user to access.

(3) Web Viewer

Enable/disable Web Viewer control right that allow the user to operate from a remote location

using internet explorer.

- Remote Console

Allow the user to remote modify DVR system setting.

- Remote LogViewer

Allow the user to view the event log from remote site.

- IP Camera

Enable/disable user to add new IP camera when using the Web Viewer.

- Remote Access Time

Enable **Infinite** check box to access DVR without time limit. If you want to set time limit, enter the number of minutes in **Minute** text box.

(4) Visible Camera

Select the camera number that would allow the user to access or view. To select all the cameras, enable the **ALL** check box.

(5) Time Span

Set the user account a specific time period that user only can use given account to login DVR program in that specific period. Mark **Enable** check box and select the **Activation Date** and **Expiry Date**.

(6) Name

Enter the user name.

Description

Enter the user description.

Password

Enter the user password.

Confirm Password

Enter the same user password for confirmation.

Chapter 4 Using the USB Playback Console

4.1 Recommended system requirements

- Pentium®4 2.4GHZ or above
- Windows®2000/ XP
- DDR 256 MB
- Graphic function must support DirectDraw
- Audio card or built-in
- Speaker
- 1 available USB2.0 port

4.2 Installing the USB Playback Console

To install the USB Playback Console:

1. Place Installation CD into the CD-ROM drive. When the installation main screen appears, click **Install USB Playback Console** and then follow the on screen instructions



2. Select the language you prefer



- 3. Click **OK** to install the application
- 4. Click **Exit** to close the installation main screen.
- 5. You may now connect the external USB enclosure that has recorded files HD inside to the PC. Also, user can install the hard disk that contains recorded files inside the PC.

Running the USB Playback Console 4.3

To run the application, click the sicon on the PC desktop





Name	Function
(1) Exit	To close the application.
(2) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(3) Playback Controller	Begin: Move at the beginning of the recorded video file.
	Previous: Go back to the previous frame by frame.
	Slower: Play the recorded video file at the speed of 1/2x, 1/4x, 1/8x, or 1/16x.
	Rewind: Wind back the recorded video file.
	Pause: Briefly stop playing the recorded video file.
	Play: Play the recorded video file.
	Faster: Play the recorded video file at the speed of 2x, 4x, 8x, 16x, or 32x.
	Next: Go to the next frame by frame.
	End: Go to the end of the recorded video file.

Name	Function
(4) Open File	To select the video file source for playing.
	Select File Type
	File Type for Playback
	ODVR Recorded File (HD)
	OBackup File (.dvr)
	OBackup File (.avf)
	OK Cancel
	- DVR Recorded File (HD): To playback the recorded video from the hard disk
	which was recording video on the DVR system. (see aslo <u>Chapter 4.3.2</u>)
	- Backup File(.dvr): The file is backup and save in *.dvr file format. (see also <u>Chapter 4.3.3</u>)
	 Backup File (.avf): The file is backup and save to external USB storage device in *.avf format. Select the file source folder and click OK to playback.
(5) Status bar	Display the recorded date, time and play speed.
(6) Language	To switch language of function tips.
(7) Advanced	Advanced function is including :
	 HDD Backup: to call out HDD Backup application. (see also <u>Chapter 4.3.4</u>) iEnhance: to call out iEnhance application. (see also <u>Chapter 6</u>)
(8) Export	Export includes Snapshot, Print, Output Video Clip, and Export KML function.
	 Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format.
	Print: Print the screen shot.
	Output to AVI: Save the segmented file in *.avi format
(9) Segment	Keep a portion of the recorded video (see also Chapter 4.3.1)
(10) Full screen	Use the entire area of the screen to only display the video. To return, press the right button of the mouse or ESC on the keyboard.
	When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.
(11) Event List	Select the event you want to playback. The event list only available when user select to playback in DVR Recorded File(HD) .
	Event Select
	No. Record Begin Time End Time Camera 1 1 A 2009/05/18 22:00:00 2009/05/18 22:00:00 Camera 1 Camera 1
	2 A 2009/05/18 22:00:00 2009/05/18 23:59:59 E 3 A 2009/05/19 00:00:00 2009/05/19 00:59:59 E 4 A 2009/05/19 01:00:00 2009/05/19 01:59:59 E
	5 A 2009/05/19 02:00:00 2009/05/19 02:59:59 6 A 2009/05/19 03:00:00 2009/05/19 03:59:59
	7 A 2009/05/19 04:00:00 2009/05/19 04:59:59 8 A 2009/05/19 05:00:00 2009/05/19 05:59:59 Camera 3 9 A 2009/05/19 06:00:00 2009/05/19 06:59:59 Camera 3 Camera 4
	9 A 2009/05/19 06:00:00 2009/05/19 06:59:59 Camera 3 10 A 2009/05/19 07:00:00 2009/05/19 07:15:02 Camera 3 11 A 2009/05/19 07:15:02 2009/05/19 07:15:02 Camera 3
	12 A 2009/05/19 08:00:00 2009/05/19 08:00:00 13 A 2009/05/19 08:00:00 2009/05/19 06:59:59
	14 A 2009/05/19 07:00:00 2009/05/19 07:59:59 15 A 2009/05/19 08:00:00 2009/05/19 08:59:59 16 t 2009/05/19 08:00:00 2009/05/19 08:59:59
	16 A 2009/05/19 09:00:00 2009/05/19 09:59:59 17 A 2009/05/19 10:00:00 2009/05/19 10:59:59 18 A 2009/05/19 11:00:00 2009/05/19 11:59:59
	19 A 2009/05/19 12:00:00 2009/05/19 12:59:59 - Pre 1 /1 Next GO OK Cancel
(12) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(13) Sound /Sound ba	Turn on and off the sound Increase and decrease the volume
(14) Watermark	ImageVerification application. (see also <u>Chapter 5</u>)

48

Function

(15) Split Screen Mode

Select from different screen view to playback the recorded video file of the entire camera or one camera on screen.

4.3.1 To Cut and Save the Portion of the Recorded Video

1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click **Segment** to set the begin mark.

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation, click **Segment** button again.

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

- 3. Click Export > Output Video Clip button to save the wanted portion.
- 4. In the **Save As** dialog box, locate on where user wants to save the file, type the filename, and select the video format.

4.3.2 Playback DVR Recorded File from Hard Disk

- 1. Please have the hard disk which containing of recorded video data install on your PC or using external USB enclosure to connect to your PC.
- 2. Click Open File button
- 3. Select DVR Recorded File(HD) and click OK.

L K

- 4. Select the hard disk drive from **Select Disk** window and click **OK**.
 - Disk Select
 Xame

 HDD
 Size
 Name

 0
 74 GBytes
 IDE\DiskST380011A______...

 1
 149 GBytes
 IDE\DiskWDC_WD1600JB-98G...

 OK
 Cancel
- 5. And then, Playback Date/Time Selection window appears. Select the date and time and click **OK**.

4.3.3 Playback Backup File(*.dvr)

1. Click Open File button.

T

- 2. Select Backup File(*.dvr) and click OK.
- 3. Locate the backup file folder and click **OK**.

When open the backup video file, just locate the folder of backup file

4. And then, Playback Date/Time Selection window appears. Select the date and time and click **OK**.

When channels of the DVR is less than 16 channels, the **Channel 01~~16** and **Channel 17~32** buttons are nonfunctional.



4.3.4 To Backup Recorded File

HDD backup function allows user to backup recorded file from hard disk.

- 1. Click Adv. Function \rightarrow HDD Backup on USB Playback Console UI.
- 2. Select the source hard disk.

Disk Selec	t	×
HD	Size	Name
0	1 GBytes	USBSTOR\Disk&Ven_JetFlash
<		
	OK	Cancel

3. In Backup date/time selection window, select the date and time. 00-24 represents hours and 01-04 represents channels. Blue block means there has recorded file. Red block means the block has been selected. Click-and-drag can select multiple block at once.



- 4. Click **Backup** to start backup file.
- 5. When backup complete, the complete information window will display.

Chapter 5 ImageVerification

Image Verification is a watermark-checking program to identify the authenticity of a saved image (e.g. by snapshot). This program can only verify uncompressed bmp image files.

5.1 To Run the ImageVerification

- 1. To run the ImageVerification application, click the **Watermark** button on USB Playback Application main interface.
- 2. In the ImageVerification screen, click Load Source Image and locate the image source.
- 3. Click **Verify Image** to begin the process.
- 4. Check the result in the **Processed Image** screen. If the picture is unmodified, the image in the **Source Image** and **Processed Image** screen would be exactly the same. If the picture is being modified, a warning dialog box would prompt and the modified area is highlighted.



Chapter 6 iEnhance

The bundled iEnhance is a video editing tool and can only be used with *.dvr video file. It allows you to adjust the video picture quality, segment and save the selected portion of the video, zoom in and out the image, and print or save the screen shot. You can also save the setting and apply it on other files.

To run iEnhance application, click **iEnhance** button on USB Playback Console interface.



Name	Function
(1) Open File	Access *.dvr video file.
(2) Save Image	Capture and save the screen shot in *.bmp format.
(3) Playback Control Buttons	Begin: Move at the beginning of the video file.
	Previous: Go back to previous frame.
	Pause: Briefly stop playing the video file.
	Play: Play the video file.
	Faster: Play the video file at the faster speed.
	Next: Go to the next frame.
	End: Go to the end of the video file.
(4) Save Video	Save the edited or segmented video in *.avi format.
(5) Print	Print the screen shot.
(6) Segment	Mark the beginning and the end of the selected portion of the video. Two triangle marks will appear on the slider. To cancel video segmentation, click this button again.
(7) Zoom Buttons	Enlarge, reduce, and set the image back to normal size.
(8) Full Screen	Use the entire screen to only display the video.
(9) Default	Set the video back to original state and delete all the changes in the history box.
(10) History Box	List all the actions.
(11) Undo	Delete the last action.

Name	Function
(12) Noise Reduce	Adjust the softness and repair the damaged colours.
(13) Sharpness	Improve the overall image by enhancing edges. This gives the image more depth.
(14) Effects	Gray Scale: convert the image into black and white (monochrome).
	Normalize: adjust the brightness intensity.
	Equalize: automatically adjust the images that are too dark.
	De-interlace: smooth out the overlying frames.
	Static: de-interlace for motionless scene.
	Dynamic: de-interlace for moving scene.
(15) Picture Adjustment	Adjust the Brightness, Contrast, Saturation, Hue and Gamma.
(16) Original Screen	Display the original state of the image.
(17) Temporary Setting Block	Display the sample settings. Click the sample to apply the setting on the current video.
(18) Status Bar	Display the date, and time of the video.
(19) Progress Bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(20) iStable	To reduce the jolt in the recorded video.(also see Chapter 6.1)
(21) Add Setting	Include the new setting to the temporary setting block.
(22) Rename	Change the name of the selected setting in the temporary setting block.
(23) Delete	Permanently remove the selected setting in the temporary setting block.
(24) Load Setting	Call the saved settings.
(25) Save Setting	Store the settings in the temporary setting block.

6.1 To Use iStable

The iStable function can reduce the jolt in the recorded video.

- 1. Click **Open File** button and select the recorded video.
- 2. And then, click **iStable** button.
- 3. iStable window will show up.
- Select the smoothness level 1(Low), 2, 3, 4, and 5(High). The default value is 3.
- 5. Click Play button, and then iStable function will start to initial the recorded video.
- 6. When the initialize is done, user will see the original and stabilized recorded video play in two window.

Initiating ······ (5%)	Stabilized Video
	Smoothness (Confines) Contension Conten
1-Stable	

Chapter 7 Using the Remote Programs

User can use Microsoft Internet Explorer to access DVR system by entering the IP address. To use this feature, make sure that your PC and DVR server both are connected to the internet and the Network feature is enabled.

Accessing this feature for the first time you will be prompted by your browser to install WebCamX.cab, allow the installation and you should be able to connect and login afterwards.

For Windows 2000, click **Yes** when the Security Warning dialog box appears.



For Windows XP/Windows Vista/Windows 7, click Install when the Internet Explorer - Security Warning dialog box appears.



After installing the WebCamX.cab and when connecting to the DVR system, you are required to enter accont ID (superuser) and password (11111) and select the type of network. **Superuser** has the authority to remote setup the DVR system configuration on WebViewer.

Changing account password is strongly recommended.

WebViewer - Microsoft Internet Explorer File Edit: View Pavorites Tools Help Back - ③ - 🖹 🗟 🏠 🔎 Search 🤆 Favorites 🤣 🔗 - <table-cell> 🖂 Address 🛃 http://127.0.0.1/</table-cell>	
Authorization	
Direction 0 Byte/sed 0.00 FPS	Normet Normet

7.1 Familiarizing the Buttons in WebViewer

Right-clicking on the WebViewer video screen, enables you to start video recording, change video quality, switch camera and enable/disable DirectDraw.



Name	Function
(1) DirectDraw	Enhance the video quality.
	c cards can support this function. If you cannot see the screen display correctly or screen ease check with VGA card vendor.
(2) Received file size	Indicate the size of the data being sent per second.
(3) Camera frames	Indicate the number of frames per second.
(4) One screen view	To view single camera view on screen. User can right click on the screen to switch to different camera view.
(5) Split screen view	To view all cameras on screen simultaneously.
(6) Audio	Enable/disable remote sound.
(7) Record	Start to record the video of the selected camera in AVI format. Directly click screen to select the channel that user wants to record and press Record button.
(8) Remote Console	Initiate Remote Console. It allows you to control DVR server (see also Chapter 7.3).
(9) Event Log Viewer	Display the Event logs, Operation logs, System logs, and Network logs.
(10) Remote setup	Change the DVR server settings (see also Chapter 7.1.1)
(11) PTZ Control	Initiate PTZ camera controller(see also Chapter 7.2)
(12) Snapshot	Capture and save the screen shot in *.bmp format.
(13) Full screen	Use the entire area of the screen to only display the video. To return, Right click the mouse or press ESC on the keyboard.

Name

Function

(14) Select cameras to view

Select to the view camera from different server. In Select Camera dialog box, Display column, click to enable/disable viewing the camera.

Click Add Server and select the server type between DVR and IP Cam to add.

Click Delete Server to delete the selected item.

Click **Import** to load the previous saved list.

Click **Export** to save the list.

Click **Apply All** to change all the camera video quality based on the selected setting. Click **OK** to exit.

	Add Server	Delete Server	Import	Export
No.	IP Address	Camera Name	Display	Video Quality
01	192,168,2,61:80	camera 1aaaaaaaaa	Uspidy	Default
02	192.168.2.61:80	camera2bbbbbbbbbb	V V	Default
03	192.168.2.61:80	camera3cccccccc	V V	Default
04	192.168.2.61:80	camera4mmmmr	V	Default

7.1.1 To Setup Remote System Setting

The setting here applies to Remote DVR only. Click the selection to configure.

System	Camera	Recording	Network	5 Schedule
Backup	Sensor	Relay	Alarm	Q User
		ОК		

7.1.1.1 System Setting

In the System Setting window, click **Update** to accept the new settings, click **Exit** to exit without saving, and click **Default** to revert back to original factory setting.

Disk Name	Free Space	Capacity	Status	Playback Mode	Play the last file	_
SATA-0:WD5000AAKS-00A7B		,	Normal			
				Date Format	yyyy/mm/dd	•
				AutoScan Period	3 • Sec.	
				Login		
		Add	Delete	Auto Login after system	boot up	
Delete recorded data after:		2 Days		Auto Record after system	m boot up	
Delete event and alarm log	after:	5 Days		Auto start Network after	system boot up	
■ Overwrite Enable				Default User	superuser	-
Language				Date and Time Setting		
System Language	nglish			System Date and Time	2009/10/19 16:16:51	Setting
	igilari			✓ Daylight Saving Time		
Configuration	POS			Start Date/Time	2009/10/19 20:30	Setting
Import Expor	t	Setting		End Date/Time	2009/10/20 08:00	Setting
	Tou	ch Monitor		Daylight Bias	01 . 00 .	
		Connect	Adjust	Firmware		
		connect	Aujust	Product Version	XMR.02.01.00.01	Update
				IPCam Module	1.0.0.50b	Update

(1) Delete recorded data after

If you want the system to automatically erase the data after a certain days, enable the **Delete recorded data after** check box and enter the numbers of days in **Days** text box.

(2) Delete event and alarm log after

If you want the system to automatically erase the event and alarm log files after a certain days, enable the **Delete event and alarm log after** check box and enter the numbers of days in **Days** text box.

(3) Overwrite Enable

When there is not enough free space to record one hour data, the system automatically replaces the oldest data.

(4) Miscellaneous

Enable the conditions in Miscellaneous section you want the system to perform.

- Playback Mode

Select the mode of playback the video.

Select date and time: Select the date and time which user wants to playback.

Play the last file: Automatically playback the video from the last hour

Instant Playback: Automatically playback the video which has just recorded

- Date Format

Select the date format which wants to display in Select date and time playback mode

- Auto Scan Period

Set the time gap of the Auto Scan function from 3 to 10 seconds. This automatically switches to the next video in cycle depending on the set time gap.

(5) Login

Enable the conditions in Login section you want the system to automatically carry out.

- Auto Record after system boot up Automatically start video recording when the DVR is executed.
 Auto start Network after system boot up
 - Automatically connect to network when the DVR is executed.

7.1.1.2 Camera Setting

Select the camera from remote DVR servers to modify settings. In the Camera Setting window, click **Update** to save and apply the new settings, click **Exit** to exit without saving.

IP Camera Setting

	Camera Setting			×
(1)—	ALL			
(-)			10 10 10 10 10 10 10 10 10 10 10 10 10 1	
(2)—	🔽 Enable			
	Input		10120220 1272(755 cd)	
(3)—	IP Camera			
	© Remote DVR			
(A)	Camera			
(4)—	🗹 Display	Enable Audio		
	Name	Camera 01		
	Description			
	IP Camera Infor	mation		
(5)—		IP Setting Detail		
		Use IP Camera Motion		
	Protocol	AVerMedia		
	Model	SF1301(W)		
	Video Format	AUTO		
	IP:Port	192.168.1.101:80		
	Channel	01		
			Default Update Exit	

(1) Camera Icons

Select the camera number you want to adjust the video setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, Right click on the camera icon. To select one camera only, Left click on the camera icon. The camera icon turns red when it is selected.

(2) Enable

Set to enable/disable the selected camera. When there is no video source on the camera, we suggest disabling it so that the system won't detect it as video loss error.

(3) Input

Select the type of camera as IP camera. To modify camera of remote DVR, see <u>Remote DVR Camera</u> <u>Setting</u>.

(4) Camera

- Display

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.

- Enable Audio

Enable/disable audio of the camera.

- Name

Change the camera name

- Description

Add a short comment

(5) IP Camera Information

Click **IP Setting** to setup the parameters of the IP camera.

🔯 IP Camera Settings		
IP Camera Information	1	
Protocol	AVerMedia 🔹	Search Devices
Model	SF1301(W) •	
Video Format	AUTO -	
Channel	1	
IP Camera Site	192.168.1.101	: 80
O URL		
http://		
Authentication		
ID admi	in	
Password		
		OK Cancel

- 1. Select the Protocol, Model, Video Format, and Channel of the IP camera.
- 2. Enter IP address and connecting port in **IP Camera Site** column.
- 3. Also, user can enter URL of IP camera instead of IP address.
- 4. If the IP camera has authority request, please enable **Authentication** and enter **ID** and **Password**.
- 5. Click **OK** to connect with the IP camera.

Remote DVR Camera Setting

Select the camera to modify settings. In the Camera Setting window, click **Update** to save and apply the new settings, click **Exit** to exit without saving.

•	Camera Setting			×
(1)-	C ALL			
			e. *e. *e. *e. *e. *e.	
(2)-	V Enable	5 ~ [04 ~] _] _] _] _]		
(-)	Input		1(4102) 12253 etc.	
(3)-	💿 IP Camera			
	Remote DVF	~		
(1)	Camera			
(4)-	🗹 Display	Enable Audio	A CONTRACT OF THE OWNER	
	Name	Camera 01		
	Description			
	Remote Camera	a Setting		
(5)—	IP	192.168.3.206		
	Port	80		
	User ID	Kent		
	Password	••••		
	Channel	1		
		Connect		
			Default Update Exit	

(1) Camera Icons

Select the camera number you want to view. To enable/disable all cameras, click ALL check box.

(2) Enable

Set to enable/disable the selected camera. When there is no video source on the camera, we suggest disabling it so that the system won't detect it as video loss error.

(3) Input

Select the camera type as **Remote DVR**. For IP camera setting, see IP Camera Setting.

(4) Camera

- Display

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.

- Enable Audio

Enable/disable audio of the camera.

- Name

Change the camera name

- Description
 - Add a short comment
- IP

Enter the IP address of the camera

- Port

The port for connection

- User ID

Enter the user id that for connecting authority

- Password

Enter the password that is for connecting authority

- **Channel** Select the channel of connected camera

7.1.1.3 Record Setting

In the Recording setup window, click **OK** to accept the new settings, click **Exit** to exit without saving, and click **Default** to revert back to original factory setting.

	Recording Setting		×
(1)—			
	Recording Mode		
(2)—		Schedule 10 Sec. 10 Sec.	
		Iu sec.	
(2)	Motion Detection		
(3)—	Sensitivity	40	
		Default Update Exit	

(1) Camera Icons

Select the camera number you want to set the recording setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, **Right click** on the camera icon. To select one camera only, **Left click** on the camera icon. The camera icon turns purple when it is selected.

(2) Recording Mode

The horizontal blocks from 00 to 23 represent the time in 24-hour clock and the vertical block 1 to 7 represent the day in the week block (Sunday to Saturday). To record in full 24 hours and 7 days a week, select the recording mode and click the \odot button. If you want to only record at a particular time or day, click **Schedule** button and select the **Recording Mode**, and then click on the time or day blocks. When the system starts recording a red triangle mark would appear at the upper left corner of the screen.



The recording modes are listed below:

- Always Recording

Record the video from the selected camera and save it to the designated storage path

- Motion Recording

Start recording the video from the selected camera only when the system detects movement. Once a motion is detected, the system automatically saves the previous frames and stop based on the **Start Record Prior** and **Stop Record After** settings.

- Smart Recording

Automatically switch to recorded at the maximum frame rate setting once a motion is detected and if there is no motion, it records at the minimum frame rate setting.

- No Recording

The system won't do any recording.

(3) Motion Detection

Adjust the sensitivity of the motion detection. The higher the value, the finer the sensitivity is detected. When it detects a motion, a green triangle mark would appear at the upper left corner of the screen.

7.1.1.4 Network Setting

In the Network Setting dialog box, click **Update** to accept the new settings, click **Exit** to exit without saving, and click **Default** to revert back to original factory setting. For the network service ports that use by DVR server, please see <u>Appendix A</u>.

Network Setting	
Server Name EXR6004WiFi	WebViewer Configuration
Transmitting Cameras	Enable Anonymous Login
☑ All	WebViewer PORT 80
1 2 3 4 5 6 7 8	Network Time Synchronization
9 10 11 12 13 14 15 16	Time Server: time.stdtime.com.tw
Main Configuration	Time Zone GMT+00:00
Server IP 192.168.2.61 v Setting	☑ Automatic synchronize at 01:00 ▼
Remote Console PORT 5550	Synchronize Time Right Now
Remote Update Configuration	Other Configuration
PORT 5005	Enable White List Detail
	V Network Bandwidth Limit Detail
	Default Update Exit

(1) Server Name

Assign a name for the DVR unit. Alphabet letters and numbers only.

(2) Transmitting Cameras

Select and click on the camera number in the Transmitting Camera section you want to make it accessible via internet using WebViewer, Remote Console, PDA Viewer and JAVAViewer (still image). To select all the cameras, enable the **ALL** check box.

(3) Network Time Synchronization

Adjust the DVR system time same as network time server. Fill in the **Time Server** IP address or domain name. Select the **Time Zone** that DVR is located. And then, mark the **Automatic Synchronize** time to set automatic synchronize time on a daily basis.

(4) Other Configuration

- Enable White List

An access permit list for the remote accessing of DVR server. Enter the IP address and click **Add**. Or, enter a range of IP address and click **Add**. To delete the IP from the list, select the IP and click **Delete** button. To reset the input, click **Clear** button.

🕵 Network White List						×
•						
IP Range	•		•		•	
Add	192.168.3	3.34				
Delete						
Clear All						
	ОК		Cancel			

- Network Bandwidth Limit

By Channel: Set the network bandwidth by each channel. **All:** Set the total network bandwidth consumption limit.

🕵 Bandwidth Settir	ngs		×
By Channel			
Camera 01	•	64	KB/s
© All			
Total Limit		1024	KB/s
	ОК	Car	ncel

7.1.1.5 Alarm Setting

In the Alarm Setting dialog box, click **Add** to insert and set new alarm setting, click **Delete** to remove the selected alarm setting, click **Update** to save the setting, **Exit** to exit without saving, and **Default** to revert back to original factory setting.

	Alarm Setting	Description		ſ	Add	Delete	×
	Enable Time	15 16 17 18 19 20 21 22 23	Enable	No.	Name Alarm 1	Description	
	Conditions	Action		2	Alarm 2		
	Trigger if any O Trigger if all	Launch E-Map					
	Camera						
	Motion Detected Detail	Spot Monitor	Detail				
	Video Loss Detail	Enlarge Camera View	Detail				
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16	Relay Output	Detail				
	Audio Detected	IP Camera Relay	Detail				
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16	Play Warning Sound					
_	Sensor High	Send E-Mail	Detail				
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16						
	Low	File Transmission via FTP	Detail				
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16	Start Recording	Detail				
	IP Camera Sensor	SMS	Detail				
	Continuous trigger duration 0 Seconds	PTZ preset point	Detail	_			
	Abnormal Event Detail	Alarm SOP	Detail				
	POS Keyword Detail	Send to CMS	Detail				
	Alarm Reset	Snapshot	Detail				
	High			_			
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16						
	Low 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16						
	IP Camera Sensor						
	a contera sensor			Default	Upd	ate Exit	

- 1. Click **Add** to insert and set a new alarm setting. Click the items in the **(8)** Alarm Setting List if you want to modify the alarm setting.
- 2. In (1) No./Name/Description enter alarm name and description. Alarm No. will be created by DVR system.
- 3. In **(2) Enable Time**, the number from 00 to 23 represent the time in 24-hour clock. Select the time and click the block you want to activate or deactivate the alarm function. When it is deactivated the color of the block turns white.
- 4. In (3) Conditions, you can set "Trigger if any" to activate if it falls to one of the conditions or "Trigger if all" to activate if it falls to all conditions.
- 5. In **(4)** Camera section, select and click on the camera number (01 to 04) in **Motion Detected** and **Video Loss** to set the condition for the system to alarm.
- 6. In **(5)** Sensor, select and click on the sensor number to set the condition for the system to alarm. If the sensor normal status is high, set the sensor condition to low.
 - Enable/disable the **Abnormal Event** check box, to set the condition of the event for system to alarm.



- Reboot: when the DVR system reboot without abnormal condition, the system will send out the alarm message.
- Abnormal Reboot: when the DVR system reboot in irregular condition, the system will send out the alarm message.
- Recording is switched off: when the recording has been stopped, the system will send out the alarm message.
- Network is switched off: when the network connection of DVR system is lost, the system will send out the alarm message.
- Hard Disk failed: when the hard disk doesn't work normally, the system will send out the alarm message.
- **Continue trigger duration:** Set a time period that when sensor has been trigger and stay in the same status for that period, then the alarm will be sent out.
- 7. In **(6)** Alarm Reset, click the camera number to set the reset condition of alarm. Once alarm is reset, all alarm action will stop at the moment. If the sensor normal status is high, set the alarm reset condition to low.
- 8. In **(7)** Action, you may now set the alarm action for the system to perform when the alarm condition is activated.

- Enlarge Camera View

Switch to only display video in Preview mode from where the alarm is activated.

- a. Select the camera from drop down list to specify which camera video to be enlarged on screen when the alarm is triggered.
- b. Retrieve time: set the waiting duration before system switching back to original Preview mode.
 If the retrieve time is un-mark, the alarm video will keep enlarging until user switch back to
 Preview mode manually. The retrieve time range is 0~ 600 seconds.

🔀 Enlarge Camera View		—
Camera02 -		
Retrieve time	10	Sec.
ОК		Cancel

- Relay Output

Set to enable/disable the relay operation when the alarm is activated and to extend additional time in second before it stops the relay operation.

- 1. Next to the Relay Output check box, click **Detail**.
- 2. In the Alarm Relay dialog box, select from the available relay list and in the ON column, set to enable/disable the relay operation when the alarm is activated.
- 3. In the Retrieve time check box, you may enable/disable to extend the relay operation time and set the duration in second.
- 4. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

Alarm R	енду		
No.	Name		Status
01	Relay0	1	On
Retrie	ve time	10	Sec.
		ОК	Cancel
- Send E-mail

Send an electronic text message. Next to the Send Email check box, click Detail.

In the E-mail Setting dialog box, click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.

	📓 E-Mail Setting
(1)—	Mail Server
(1)	SMTP Server : 25
	Authentication
	ID Password
(2)—	Mail Message
	From:
	To:
	CC:
	Subject:
	subject.
	Snapshot
	Enable
	Select Camera Camera01 v
	Video Size Auto 👻
	OK

(1) Mail Server

Enter the **SMTP Server** and **port**. If your e-mail system requires user identification, enable **Authentication** check box and enter **ID** and **Password**.

(2) Mail

Fill the mailing information.

From: Enter the sender e-mail address.

To and CC: Enter the recipient email address and separate it with comma or a semicolon (;). **Subject:** Enter the message title.

Message: Type the message.

- Start Recording

Record the video from the selected camera.

- 1. Next to the Start Recording check box, click **Detail**.
- In the Alarm Recording Setting dialog box, select the camera to enable/disable video recording. Enable All to select all cameras.
- In the Frame Rate selection, select As Setting to record the number of frames based on the Recording Setting.
- In the Start Record prior text box, mark and set the number in second for the program to begin recording after the alarm has been trigger. The time range is 1~10 seconds.

۶¢	Alarm I	Recording	g Setting					×	
	All								
	Record	ling Cam	eras						
	1	✓ 2	3	☑ 4	5	6	7	8	
	9	10	11	12	13	14	15	16	
	Frame	Rate							
	As	Setting			🔘 Ma	x			
	✓ Start	t Recordi	ing prior			0	Seco	nds	
	V Stop	Recordi	ng after			0	Seco	nds	
					0	К		Cancel	

- 5. In the **Stop Record after** text box, mark and set the number in second for the program to continue recording after the alarm has ended. The time range is 1~999 seconds. If user doesn't mark and set the time, the alarm recording will continue recording until alarm is reset.
- 6. Click **OK** to accept the new settings and **Cancel** to exit without saving.

- PTZ preset point

 Position the PTZ camera based on the preset point setting. Next to the PTZ preset point check box, click **Detail**. In the Trigger PTZ Preset Setting dialog box, select the PTZ camera number then select the **Enable** check box. Select the position of the PTZ camera when the alarm is activated and ended. For the PTZ camera end point, user can also select on preset position or **Auto Pan** between preset position groups.

😰 Trigger PTZ Preset Setting								×	
Se	Select Camera Camera01 👻								
Enable									
F	Preset N								
		Trigger		. ·			_		
		0 2							
	0 9	◎ 10	© 11	© 12	© 13	© 14	© 15	© 16	
	Alarm	Close							
	© 1	© 2	© 3	© 4	◎ 5	© 6	◎ 7	© 8	
	© 9	© 10	© 11	© 12	© 13	© 14	© 15	© 16	
	Aut	toPan							
		1	- 4			5 - 8			
		9 -	- 12			13 - 16			
						ОК		Cance	I

- Send to CMS (Central Management System) Enable/disable the selected camera to send video to CMS when the alarm is activated. Next to the Send to CMS check box, click **Detail**. In the CMS Setting, select the camera to enable/disable sending the video to CMS. Enable **All** to select all cameras. Then, click **OK** to accept the new settings and **Cancel** to exit without saving.

K	CMS Se	tting						×	
	All								
ſ	Transm	nitting C	ameras						
	1	2	3	4	5	6	7	8	
	9	10	11	12	13	14	15	16	
					Oł	(С	ancel	

7.2 Familiarizing the Buttons in WebViewer PTZ



Name	Function
(1) Direction buttons	Adjust and position the focal point of the PTZ camera. Click the center to pan automatically.
(2) Zoom +/-	Zoom in and out the image.
(3) Select PTZ	Choose to enable/disable the PTZ camera. In the Select PTZ dialog box, Select column, click to enable/disable viewing and controlling the PTZ camera. Click OK to exit and save the setting and Cancel to exit without saving the setting.
(4) Focus +/-	Adjust the focus manually to produce clear image.
(5) AutoPan Groups	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(6) Camera preset position number	Move the PTZ camera to the preset point. The reset point is based on the user has setup by remote control at local site.

7.3 Familiarizing the Buttons in Remote Console



Name	Function							
(1) Exit	Close the Remote Console.							
(2) Split Screen Mode	Select from 1 or 4-split screen type to playback the recorded video file.							
(3) Record	Start/stop video recording.							
(4) Network	Enable/disable remote system access. This feature allows you to access DVR server from a remote location via internet connection.							
(5) Setup	Configure the Remote Console setting. (see also Chapter 7.3.1)							
(6) PTZ	Access PTZ control panel(see also Chapter 7.3.2).							
(7) Preview	Switch to Preview/Playback mode. This allows you to view live camera display.							
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file. (see also Chapter 7.4)							
(9) Status Bar	Display the current date, time and hard disk free space.							
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.							
(11) Event Log	Display the Event logs, Operation logs, System logs, and Network logs.							
(12) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.							
(13) Auto Scan	Start/stop video screen cycle switch.							
(14) Full screen	Use the entire area of the screen to only display the video.							
	To return, Right click the mouse or press ESC on the keyboard.							
(15) Alarm	Alert and display warning info. Superuser and user both can reset the alarm.							
(16) Audio button	Enable/disable the sound.							
(17) DirectDraw	Enhance the video quality.							
Direct Draw for vendor.	unction supports for certain VGA card. For more information, please contact your VGA card							

7.3.1 To Setup Remote Console Setting

Click **Setup** button to call out the **System Setting** window. Click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.

-	System Setting
(1)—	Storage Path
(1)	Folder Name Free Space Disk Space(Used) C:\RemoteData 24.75G 40.00G(0.00G)
(2)	Add Delete Enable network storage Language
(2)	System Language English
(3) —	Server IP 10.1.2.5
	Server Port 5550
(4) —	Channel Settings OK Cancel

(1) Storage Path

Set the directory on where to save the data. When there is not enough free space to record one hour data, the system automatically replaces the oldest data. In case you have more than one storage path, the system automatically saves the data to the next storage path. By default the data is stored in C:\RemoteData, to insert another storage path, click **Add**. To remove the selected path, click **Delete**.

- Enable network storage Select the Enable network storage check box to send the recorded video in network-attached storage.

To add network storage, the Internet storage drive/folder must be mapped as Network Driver in DVR server. To know how to assign or connect to a network drive, please refer to your Windows help file and search "Map Network drive".

(2) Language

Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.

(3) Remote Server

Enter the DVR Server IP and Server Port number.

(4) Channel Settings

The numbers from 1 to 4 represent the camera ID. In Transmitting Channels section, enable the camera number to receive the camera signal from the server. In Visible Channels section, enable the camera number to view the camera signal on Remote Console screen. To select all the cameras, enable the **ALL** check box.

Chan	nel Setti	ings						×
⊽ [−T		ting Cha	annels					4 >
	V 1	☑ 2	√ 3	✓ 4	5	6	7	8
	9	10	11	12	13	14	15	16
		hannels						4 >
	isible Cl	hannels 📝 2	☑ 3	☑ 4	5	6	7	
	isible Cl	2					□ 7 □ 15	8

7.3.2 Familiarizing the Buttons in PTZ Camera Controller



Name	Function
(1) Close	Exit PTZ camera controller.
(2) Setup	Configure PTZ cameras.
(3) AutoPan	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(4) Focus +/-	Adjust the focus manually to produce clear image.
(5) Zoom +/-	Zoom in and out the image.
(6) Direction buttons	Adjust and position the focal point of the PTZ camera.
(7) Camera ID pane	Display the PTZ camera number that is being operated.
(8) Save Camera preset position	Save the PTZ camera preset position number. Select the camera and click the preset position number and save it.
(9) Camera lens speed controller	Adjust the moving speed of the PTZ camera lens.
(10) Camera preset position number	Move the PTZ camera to the preset point.
(11) Group AutoPan	Select to automatically operate PTZ camera in group.

7.4 Using the Remote Playback

To use this feature, first you need to select the source of the file. In the Select Playback Mode dialog box, choose **Local Playback** to open the file that is recorded in the Remote Console, and **Remote Playback** to open the file that is recorded in the DVR server. When you choose Remote Playback, select **RealTime Playback** if your internet bandwidth is fast and big enough, otherwise choose **Download and Playback**.



Click OK to proceed and Cancel to void this operation.

Select Playback Mo	ode
 Local Playbac Remote Playbac 	
 Download a RealTime Pl 	
ОК	Cancel

In the Video Playback Date/Time Selection, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera number.

🛄 Re	emo	te P	layb	ack	Date	/Tim	ne Se	lectio	on																	×
			_									_								_		_		[[OK	
				September, 2009									October, 2009													
				Sun	Mo	n Tu	ie W	/ed ٦	Thu	Fri	Sat	S	Sun Mon Tue Wed Thu Fri Sat											Cano	el	
				30	31	1		2	3	4	5						1	2	3	3						
				6	7	8			10	11	12	4		5	6	7	8	9		0						
				13	14				17	18	19			12	13	14	15	16		7						
				20	21				24	25	26			19	20	21	22	23								
				27	28	29	93	80				_		26	27	28	29	30								
													1	2	3	4	5	6		7						
														6.	2											
														-C.)—											7
			00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
ſ	- H	01																								
	12	J2																								
	1	33																								
	18	<u>]</u> 4																								
	1	D5																								
		J6																								
	1	D7																								
5	3) 8																								
9 1)9																								
		10																								
	Ē	11																								
	Ē	12																								
	Ē	13																								
	ŀ	14																								
	ľ	15																								
L	-1	16																								
	1																							-		

To Make a Selection:

- 1. Select the date in the calendar. Use
- 2. In the table below, click on the blue block to select and open the recorded file. The blue block turns red when it is selected. The block that appears in white doesn't have data. You can only select one block when you choose Download and Playback.
- 3. Click **OK** to proceed and **Cancel** to void this operation.
- If you select Download Playback and after making the selection, the system divides the selected hour into 16 video thumbnails. In the Time Selection screen, click on the video thumbnail you want to download (see also <u>Chapter 7.4.3</u>).



7.4.1 Familiarizing the Buttons in Local Playback



Name	Function
(1) Split Screen Mode	Select from 1 or 4-split screen type to playback the recorded video.
(2) Exit	To close the application
(3) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
that there is a re-	is represent the time in 24-hour clock. The blue bar on top of the hour button indicates corded video file on that period of time. If there is no recorded data within the hour, there bar on top of the hour button. While the red bar indicates that you are currently viewing eo file.

Name	Function
(5) Playback Control Buttons	Begin: Move at the beginning of the recorded video file.
Datione	Previous: Go back to the previous frame.
	Slower: Play the recorded video file at the speed of 1/2x, 1/4x, 1/8x, 1/16x, or 1/32x.
	Rewind: Wind back the recorded video file.
	Pause: Briefly stop playing the recorded video file.
	Play: Play the recorded video file.
	Faster: Play the recorded video file at the speed of 2x, 4x, or 8x, 16x or 32x.
	Next: Go to the next frame.
	End: Go to the end of the recorded video file.
(6) Archive	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.
	 OPEN FILE: Click to open the recorded file from certain location.
	 Channel 01~ 16 & Channel 17 ~ 32: Click to switch to different channel group of playback calendar if the DVR supports more than 16 channels.
	 Mark Day Light Saving, the playback calendar will show the available playback records during day light saving period.
	Video Playback Date/Time Selection
	ОК



The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera ID. While the red colored column indicates on where to start playing the recorded video file. If there is no any video data, it will be no color bar on top of the date button.

(7) Preview	Switch to Preview mode.
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file.
(9) Status bar	Display the record date, time, HDD capacity in preview mode and play speed in playback mode.
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(11) Export	 Export includes Snapshot, Print, and Output Video Clip function. Snapshot: Capture and save the screen shot either in *.jpg format. Print: Print the screen shot. Output Video Clip: Save the segmented file in *.dvr, *.avi, *.mpg format (see also Chapter 7.4.1.1).
(12) Segment	Keep a portion of the recorded video you want (see also Chapter 7.4.1.1).

Name	Function
(13) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or ESC on the keyboard.
(14) Event Log	Show the record of activities that take place in the system
(15) Find Next	Search for the next event. You can use this when you are using Event Search function.
(16) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 3.7.4).
(17) Audio	Enable/disable volume
(18) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

7.4.1.1 To Cut and Save the Wanted Portion of the Recorded Video

1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click Segment to set the begin mark.

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click Segment to set the end mark. To cancel segmentation or set the segment marks from the start, click Segment button again.

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

3. Click **Export** >> **Output Video Clip** button to save the wanted clip.

4. In the Save As dialog box, locate on where you want to save the file, type the filename, and select the video format.

Familiarizing the Buttons in RealTime Playback 7.4.2

(15) (16) (1) (2) (1)	
(3)	(4) (5) (6) (7)
Name	Function
(1) Split Screen Mode	Select 1 or 4-split screen type to playback the recorded video file.
(2) Exit	To close the application
(3) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(4) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
	ns represent the time in 24-hour clock. The blue bar on top of the hour button indicates ecorded video file on that period of time. While the red bar indicates that you are currently orded video file.
(5) Playback Control Buttons	Begin: Move at the beginning of the recorded video file.
	Previous: Go back to the previous frame.
	Slower: Play the recorded video file at the speed of 1/2x, 1/4x, 1/8x, 1/16x, or 1/32x.
	Rewind: Wind back the recorded video file.
	Pause: Briefly stop playing the recorded video file.
	Play: Play the recorded video file.
	Faster: Play the recorded video file at the speed of 2x, 4x, or 8x, 16x or 32x.
	INext: Go to the next frame.
	Next. Go to the next name.

Name Function

(6) Archive

Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.

- **OPEN FILE:** Click to open the recorded file from certain location.
- Channel 01~ 16 & Channel 17 ~ 32: Click to switch to different channel group of playback calendar if the DVR supports more than 16 channels.
- Mark Day Light Saving, the playback calendar will show the available playback records during day light saving period.



The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 04 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.

(7) Preview	Switch to Preview/Advanced mode.
(8) Playback	Switch to Playback mode. This allows you to view the recorded video file.
(9) Status bar	Display the recorded date, time and play speed.
(10) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(11) Export	Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format.
(12) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or ESC on the keyboard. When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.
(13) Event Log	Show the record of activities that take place in the system
(14) Audio	Enable/disable volume
(15) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.

7.4.3 Familiarizing the Buttons in Download and Playback

(9)— (10)——	
Name	Function
(1) Exit (2) Progress bar	To close the application. Show the progress of the file being played. You may move the bar to seek at any location
(2) 1 1091033 541	of the track.
(3) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.
that there is a	tons represent the time in 24-hour clock. The blue bar on top of the hour button indicates a recorded video file on that period of time. While the red bar indicates that you are currently ecorded video file.
(4) Playback Control Buttons	 Begin: Move at the beginning of the recorded video file. Previous: Go back to the previous frame. Slower: Play the recorded video file at the speed of 1/2x, 1/4x, 1/8x, 1/16x, or 1/32x. Rewind: Wind back the recorded video file. Pause: Briefly stop playing the recorded video file. Play: Play the recorded video file. Faster: Play the recorded video file at the speed of 2x, 4x, or 8x, 16x or 32x. Next: Go to the next frame. End: Go to the end of the recorded video file.
(5) Status bar	Display the recorded date, time and play speed.
(6) Language	Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.
(7) Export	 Export includes Snapshot, Print, and Output Video Clip function. Snapshot: Capture and save the screen shot either in *.jpg or *.bmp format. Print: Print the screen shot. Output Video Clip: Save the segmented file in *.mpg, *.avi, or *.dvr format (see also Chapter 7.4.1.1).
(8) Segment	Keep a portion of the recorded video you want (see also <u>Chapter 7.4.1.1</u>).
(9) Full screen	View in Playback-compact mode. To return, press the right button of the mouse or ESC on the keyboard. When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.
(10) Event Log	Show the record of activities that take place in the system

Name	Function					
(12) Audio	Enable/disable volume					
(13) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.					
(14) Watermark	To verify the playback video has not been modified					
	To verify the playback video doesn't been modified. Click 🛞 to check the video.					
	Watermark verification window will show up as following:					
	Check Watermark K Image: Check Watermark Accurate Ratio 100 % This light indicates watermark verification pass or fail PASS: green light FAIL: red light Watermark verification function is not supported with hardware compression product,EB,IP camera right now. Pause Exit					

Chapter 8 Using HandyViewer to Access DVR Server

Users can use a mobile phone to access the DVR through Internet. Make sure your mobile phone support IE browser and is connected to the internet. To access the DVR server, open IE browser and enter **http://enter server IP or domain name here/mobile.** You can see the latest screen shot. Click << >> to change the channel or camera and **Refresh** to reload new screen shot.

8.1 Using PDAViewer to Access DVR Server

Users can also use a PDA to access the DVR through Internet. Make sure your PDA support IE browser and is connected to the internet. To use this feature, you need to install the PDA Viewer software either thru ActiveSync connection or download it from the internet. Please check if your PDA meets the 2 requirements below.

OS: MS Windows CE 4.0, PocketPC 2002/2003, Mobile 5 PDA version CPU: ARM architecture

8.1.1 To install PDAViewer thru ActiveSync

 Connect your PDA to your PC. Place the CD into the CD-ROM drive then click Install Web Tool >> PDAViewer.exe. And follow the on screen instructions.

2. Click Next to continue.

3. Read the license agreement and click **Yes** to accept all the terms. The system will then automatically install the application.



4.	When you are prompted, click Yes to inst application using the default directory.	Installing Applications Install "AVerMedia PDA Viewer" using the default application install directory? Yes No Cancel
5.	When done, click OK .	plication Downloading Complete

8.1.2 To install PDAViewer from the Internet

Make sure you are connected to the internet.

1. Open the web browser and enter the server IP. Then click the hyperlink **Download PDAViewer**.



2. When the Download dialog box appears, enable **Open file after download** and click **Yes**.

3. After the installation, the PDAViewer icon will appear in the Programs list.



8.1.3 To Use the PDAViewer

- 1. Run the **PDAViewer** in the Programs.
- 2. Familiarizing the PDAViewer buttons.



Name

(1) Connect

Function Hook up to the DVR server. Make sure you are connected to internet. When the iView screen appears, click Add to add DVR server.



Enter the server IP, port, user ID, password and select the connection type. Then, click **OK**.



User can playback the recorded video from remote DVR server in PDAViewer.(see also Chapter 8.1.4)

(2) Split Screen Mode	Select between 2 screen display types. It also allows you to switch and view different camera number or channels.
(3) About	Display the PDAViewer software version.
(4) Minimize	Reduce the size to taskbar.
(5) Exit	Close the PDAViewer.
(6) Focus	Adjust the focus of PTZ camera to produce clear image.
(7) Full Screen	Use the entire screen to only display the video.
(8) Snapshot	Capture and save the screen shot in *.bmp format.
(9) Zoom	Zoom in and out the PTZ camera image.
(10) Direction buttons	Adjust and position the focal point of the PTZ camera.

3. To change the video quality, enable/disable audio, and select to display different camera, tap on the video screen longer the popup menu will appear.



8.1.4 To Playback in PDAViewer

- 1. Run the **PDAViewer** in the Programs.
- 2. Hook up to the DVR server.
- 3. Click Connect icon and select the DVR server
- 4. Click Playback to enter playback option screen
- 5. Select the camera, data, and time
- 6. Click Playback to start playing the recorded video

PDAViewer ↓ ↓ ↓ 07:40	œ
CameraID Camera 1 👻	
[Playback Date and Time]	
2007 • 7/ 3 • m/ 21 • d	
19 ▼ h/ 0 ▼ m/ 0 ▼ s	
PlayBack Cancel	
	ך ≁

- 7. While playback, user can view and change status of I/O devices
- 8. On the playback screen, tap on video screen longer the pop up menu will appear
- 9. Select the **Remote IO**



10. The sensor and relay devices will list as below:



11. User can change the relay status. Select the relay and tap on video screen longer the pop up menu will appear, and then, select the status (ON, OFF, Tigger)

8.2 Using JavaViewer to Access DVR Server

Using the mobile phone within Symbian Smart Phone OS to access the DVR through Internet. Make sure your mobile phone supports Symbian Smart Phone OS and can be connected to the internet. To use this feature, you need to install the JAVA Viewer program that it can be downloading it from the DVR server through the internet.

8.2.1 To install JavaViewer from the DVR Server

- 1. Open the web browser and enter the DVR server IP (http://DVR server IP: port/JAVA-Viewer.html). Then click **Connect**.
- 2. When the Download screen appears, select **JAVA-Viewer.jad** and download it to your mobile phone.
- 3. After the installation, the JavaViewer will be in your mobile phone system. To find the JavaViewer program where is located, please refer to your mobile phone user's manual.

8.2.2 To Use the JavaViewer

- 1. Run the JavaViewer program.
- 2. Enter the DVR IP address, port number, user ID, and password. Please refer to your DVR server setting for that information.
- 3. And then, select the Connect to connect to DVR server.
- 4. Click **Yes** to accept the data from DVR server.
- 5. When connection is success, you will see the camera video on the screen.
- 6. To switch to different camera view, select menu and select the channel.
- The JavaViewer support PTZ control function, you can refer to Help file for detail function control key. Select menu and go the way down to select the Help file.







8.3 Using iPhone to Access Remote DVR Server

Using the iPhone can connect to remote DVR server through the Internet to view the live image.

8.3.1 Download the iViewer

To use this feature, it is required to download the iViewer application to your iPhone. There are 2 ways to download the iViewer to your iPhone. User can chose one of way to download.

I. Download through the PC

- 1. Connect your iPhone to the PC.
- 2. In iTunes UI, enter keyword "AVerDiGi" to search.
- 3. And then, the AVerDiGi iViewer will be found and display on iTunes UI.



4. Click AVerDiGi iViewer and click **GET APP** to download the application. And then, enter the **ID** and **Password** to download.

Eile Edit ⊻iew ⊆ontrols	Store Advanced Help	iTunes	
	4) — — — – – – – – – – – – – – – – – – –	iPhone sync is complete. OK to disconnect.	Q AverDigi 🛞
LIBRARY	 ▲ 	App Store iTunes U	kenfa02@hotmail.com
🎵 Music 🔂 Applications 🛛 🚺	App Store > Busine	s >AVerDiGi iViewer	
STORE	AVerDiGi		APPLICATION DESCRIPTION
▼ DEVICES ► ■ N DDD ⊡ ○ ▼ SHARED Mome Sharing ▼ PLAYLISTS	Cat Rel Ver B 0.2	VerDIG I IVIewer gory: Business sed 23 November 2009 sion: 3.0.3 r: AvertMedia INFORMATION, Inc elease 12 Oct 2009 MB GET APP	Application Description AVerMedia always focus on creating a simple, convenient, and professional monitoring solution by providing uses the ability to perform remote monitoring with all find of mobile device. AVerDKI Netwer is another extended service for Phone users preserted by AVerMedia, and is compatible with AVerDKI NVMX/ NXU, SAAXE, H.; EXR, and SEB series, and will provide more functions users wonth in the future.
ời Tunes DJ ▼ ☐ Stanford Mi Phone Applic	- 1/ A	ed 4+	Features 1. Live Display : Single-Channel live display. 2. Support up to 32 channels.

- 5. After download the iVewer, click **Application** and mark the **AVerDiGi iViewer**.
- 6. Click **Apply** button. The iViewer will load into your iPhone.

ile Edit View Controls	Store Advanced Help ♣ ────── ◀0		iTunes iPhone sync is co OK to disconr					٩	
LIBRARY	Summary	Info Applic	ations Ringto	ones Music	Movies	TV Shows	iTunes U	Photos	
Applications 1	Sync Appli		ate	NMAC	的 iPho	ne:			Î
	AVerDi	Gi iViewer	260.8 KB	1		Phone Viewer			
SHARED				離終資訊	Hami	AVerDiGi			

7. To use iVewer, select the AVerDiGi iViewer icon () on your iPhone. How to use iViewer, please refer to Chapter 8.9.2.

II. Using iPhone to Download

- 1. Please make sure your iPhone connect to the Internet.
- 2. Select App Store from iPhone main screen.
- 3. Select **Search** and enter the keyword "**AVerDiGi**" to search.
- 4. In search result list, select the **AVerDiGi iViewer**. User will see a brief introduction of the AVerDiGi iViewer. Select the **Free** button, the button will change to the **Install** button. Select **Install** to download the application.
- 5. And then, enter ID and Password for login iTunes to start download processing.
- 6. After download completed, go back to iPhone main screen and user should see **AVerDiGi iViewer** icon () on the menu list. Select it to run the application. How to use iViewer, please refer to

Chapter 8.9.2.

8.3.2 Using the iViewer

- 1. After iViewer has been downloaded to your iPhone, select the iViewer to excute.
- 2. In login screen, enter the following information to make a connection with the remote DVR server. After entered all necessary information, click **Login**.
 - IP: IP address of the remote DVR server.
 - Port: The connection port of the remote DVR server. The default value is 5550.
 - ID: The user account to login the remote DVR server.
 - **Password:** The password for login authentication.

💵 Carrier 🔶	1:56 PM	
	Login	Login
IP	192.168.107.24	
Port	5550	
ID	1	
Password	Login password	
		_
	0	

3. After login, user should see the live video on iPhone screen.



- 4. Click the channel number $(1 \sim 32)$ can switch to view each channel.
- 5. Click < or > to go back last page or next page of channels.
- 6. To logout iViewer or disconnect with the current DVR connection, click **Exit** and return to the iViewer login screen. In Login screen, user can connect with other DVR server.
- 7. To close the iViewer application, press the button that located at bottom of your iPhone.

Chapter 9 Web Tools

The bundled Web Tools includes Dispatch Server, Remote Backup, and Remote Setup program. To install Web Tools, place the CD into the CD-ROM drive then click **Install Web Tool**.



9.1 Dispatch Server

Dispatch is designed to reduce the network traffic of the DVR server. Instead of connecting directly to the DVR server, the client can connect to the computer that is connected to the DVR server using the Dispatch program.

9.1.1 To Run Dispatch program:

- 1. Make sure you are connected to the internet.
- 2. Click Start>Programs>Web Tool>Dispatch.
- 3. In the DVR Server section, enter the DVR server IP, port, user ID and password. You can also select to display the language you prefer.
- 4. **Auto connect when start:** Enable to automatically connect the dispatch server when start up
- 5. 3GPP Service
- Enable to allow user using 3GPP service to receive video stream from Dispatch server. The Service Port must same as RTSP port of 3GPP on DVR server.
- 7. In the **Dispatch Service** section, if you have installed more than one network card, select the Service IP number.
- 8. In the **Dynamic DNS Configuration** section, enter the DNS server Name and Password. The DNS server can be the remote storage server for sharing the DVR system loading.
- 9. Click **START** to connect.

選 Network Video 🛙	街 Network Video Dispatch Server 📃 📼 💌					
DVR Server						
Server IP	127.0.0.1					
Server Port	80					
Lines TD						
User ID	ļ					
Password						
Language	English	<u> </u>				
Auto connect	when start					
- 3GPP Service -	when start					
Enable 3GP	P Service					
Port	554					
	I.					
Dispatch Servi	се					
Service IP	192.168.0.202	-				
Service Port	80					
	1					
Dynamic DNS C	Configuration					
Domain Name						
Domain Hame	-					
Password						
	,					
Press 'Start' butt	ton to start dispatch service .					
	START	1				

9.2 Remote Setup

Remote Setup is a tool for configuring DVR server from remote site. To install Remote Setup application, insert the Installation CD into CD-ROM drive and click **Install Web Tool**. After installation, click start the Remote Setup application.

9.2.1 To Add DVR server

User need to add a DVR server and make connection in order to setup remote DVR server.



1. Click Add

- 2. In Edit DVR window, fill in the following items:
 - Name: give a name for remote DVR server for easy managing
 - IP: fill in remote DVR server's IP address
 - **Port:** the port use to connect to remote DVR server. The port number is same the Webviewer port on the remote DVR server. The default is 80.
 - User ID: fill in the remote DVR server's login account
 - Password: fill in the remote DVR server's login password
 - Description: fill in a short description for the remote DVR server

🧱 Edit DVR	×
Name	DVR 02
IP	
PORT	80
User ID	
Password	
Description	
	OK Cancel

- 3. Click **OK** to complete adding remote DVR server.
- 4. The added DVR server will be listed and auto connects to DVR server.
- 5. Once the connecting is success, user can start to configure DVR server.

- 6. When connection is lost, click Reconnect to connect again.
- 7. To modify or delete the added DVR server, select the DVR server from listing and click **Modify** to change the setting and click **Delete** to remove the DVR server.
- 8. User also can import the setting by clicking **Import** button. To save the setting to local hard disk, click **Export** button.

9.2.2 To Setup Remote System Setting

The setting here applies to Remote DVR only.

9.2.2.1 System Setting

In the System Setting window, click **Update** to accept the new settings, click **Exit** to exit without saving, and click **Default** to revert back to original factory setting.

torage Path				Miscellaneous		
Disk Name	Free Space	Capacity	Status	Playback Mode	Play the last file	~]
SATA-0:WD5000AAKS-00A7B			Normal	Date Format	yyyy/mm/dd	•
				AutoScan Period	3 - Sec.	
				AutoScall Ferrou	5 560.	
				Login		
		Add	Delete	Auto Login after system	boot up	
Delete recorded data after:		2 Days		Auto Record after system	n boot up	
Delete event and alarm log a	fter:	5 Days		Auto start Network after	system boot up	
Voverwrite Enable				Default User	superuser	-
anguage						
				Date and Time Setting		
System Language Eng	glish	*		System Date and Time	2009/10/19 16:16:51	Setting
				Daylight Saving Time		
onfiguration	POS			Start Date/Time	2009/10/19 20:30	Setting
Import Export		Setting		End Date/Time	2009/10/20 08:00	Setting
				Daylight Bias	01 : 00	
	Touc	h Monitor				
		Connect	Adjust	Firmware		
				Product Version	XMR.02.01.00.01	Update
				IPCam Module	1.0.0.50b	Update

(1) Delete recorded data after

If you want the system to automatically erase the data after a certain days, enable the **Delete recorded data after** check box and enter the numbers of days in **Days** text box.

(2) Delete event and alarm log after

If you want the system to automatically erase the event and alarm log files after a certain days, enable the **Delete event and alarm log after** check box and enter the numbers of days in **Days** text box.

(3) Overwrite Enable

When there is not enough free space to record one hour data, the system automatically replaces the oldest data.

(4) Miscellaneous

Enable the conditions in Miscellaneous section you want the system to perform.

- Playback Mode

Select the mode of playback the video.

Select date and time: Select the date and time which user wants to playback.

Play the last file: Automatically playback the video from the last hour.

Instant Playback: Automatically playback the video which has just recorded.

- Date Format

Select the date format which wants to display in **Select date and time** playback mode.

- Auto Scan Period

Set the time gap of the Auto Scan function from 3 to 10 seconds. This automatically switches to the next video in cycle depending on the set time gap.

(5) Login

Enable the conditions in Login section you want the system to automatically carry out.

- Auto Record after system boot up Automatically start video recording when the DVR is executed.
 Auto start Network after system boot up
 - Automatically connect to network when the DVR is executed.

9.2.2.2 Camera Setting

Select the camera from remote DVR servers to modify settings. In the Camera Setting window, click **Update** to save and apply the new settings, click **Exit** to exit without saving.

IP Camera Setting

	Camera Setting			×
(1)—	ALL			
(-)			10 10 10 10 10 10 10 10 10 10 10 10 10 1	
(2)—	🔽 Enable			
	Input		10120220 1272(755 cd)	
(3)—	IP Camera			
	© Remote DVR			
(A)	Camera			
(4)—	🗹 Display	Enable Audio		
	Name	Camera 01		
	Description			
	IP Camera Infor	mation		
(5)—		IP Setting Detail		
		Use IP Camera Motion		
	Protocol	AVerMedia		
	Model	SF1301(W)		
	Video Format	AUTO		
	IP:Port	192.168.1.101:80		
	Channel	01		
			Default Update Exit	

(1) Camera Icons

Select the camera number you want to adjust the video setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, Right click on the camera icon. To select one camera only, Left click on the camera icon. The camera icon turns red when it is selected.

(2) Enable

Set to enable/disable the selected camera. When there is no video source on the camera, we suggest disabling it so that the system won't detect it as video loss error.

(3) Input

Select the type of camera as IP camera. To modify camera of remote DVR, see <u>Remote DVR Camera</u> <u>Setting</u>.

(4) Camera

- Display

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.

- Enable Audio

Enable/disable audio of the camera.

- Name

Change the camera name

- Description

Add a short comment

(5) IP Camera Information

Click **IP Setting** to setup the parameters of the IP camera.

🕵 IP Camera Settings					×
IP Camera Informatio	n				
Protocol	AVerMedia	•	Searc	ch Devices	
Model	SF1301(W)	•			
Video Format	AUTO	•			
Channel	1	•			
IP Camera Site	192.168.2.28		:	80	
© URL					
http://					
Authentication					
ID adn	nin				
Password					
		ОК		Cance	!

- 1. Select the **Protocol**, **Model**, **Video Format**, and **Channel** of the IP camera.
- 2. Enter IP address and connecting port in IP Camera Site column.
- 3. Also, user can enter URL of IP camera instead of IP address.
- 4. If the IP camera has authority request, please enable **Authentication** and enter **ID** and **Password**.
- 5. Click **OK** to connect with the IP camera.

Remote DVR Camera Setting

Select the camera to modify settings. In the Camera Setting window, click **Update** to save and apply the new settings, click **Exit** to exit without saving.

•	Camera Setting			×
(1)-	C ALL			
			e. *e. *e. *e. *e. *e.	
(2)-	V Enable	5 ~ [04 ~] _] _] _] _]		
(-)	Input		1(4102) 12253 etc.	
(3)-	💿 IP Camera			
	Remote DVF			
(1)	Camera			
(4)-	🗹 Display	Enable Audio	A CONTRACT OF THE OWNER	
	Name	Camera 01		
	Description			
	Remote Camera	a Setting		
(5)—	IP	192.168.3.206		
	Port	80		
	User ID	Kent		
	Password	••••		
	Channel	1		
		Connect		
			Default Update Exit	

(1) Camera Icons

Select the camera number you want to view. To enable/disable all cameras, click ALL check box.

(2) Enable

Set to enable/disable the selected camera. When there is no video source on the camera, we suggest disabling it so that the system won't detect it as video loss error.

(3) Input

Select the camera type as **Remote DVR**. For IP camera setting, see IP Camera Setting.

(4) Camera

- Display

Enable/disable to show the video. Even if the video of the selected camera is hidden you can still record the video and preview it in playback mode.

- Enable Audio

Enable/disable audio of the camera.

- Name
 - Change the camera name
- Description

Add a short comment

- IP
 - Enter the IP address of the camera
- Port
 - The port for connection
- User ID
 - Enter the user id that for connecting authority
- Password
 - Enter the password that is for connecting authority
- Channel
 - Select the channel of connected camera

9.2.2.3 Record Setting

In the Recording setup window, click **OK** to accept the new settings, click **Exit** to exit without saving, and click **Default** to revert back to original factory setting.



(1) Camera Icons

Select the camera number you want to set the recording setting. To select all the cameras, enable the **ALL** check box. To select more than one camera, **Right click** on the camera icon. To select one camera only, **Left click** on the camera icon. The camera icon turns purple when it is selected.

(2) Recording Mode

The horizontal blocks from 00 to 23 represent the time in 24-hour clock and the vertical block 1 to 7 represent the day in the week block (Sunday to Saturday). To record in full 24 hours and 7 days a week, select the recording mode and click the \odot button. If you want to only record at a particular time or day, click **Schedule** button and select the **Recording Mode**, and then click on the time or day blocks. When the system starts recording a red triangle mark would appear at the upper left corner of the screen.



The recording modes are listed below:

- Always Recording

Record the video from the selected camera and save it to the designated storage path

- Motion Recording

Start recording the video from the selected camera only when the system detects movement. Once a motion is detected, the system automatically saves the previous frames and stop based on the **Start Record Prior** and **Stop Record After** settings.

- Smart Recording

Automatically switch to recorded at the maximum frame rate setting once a motion is detected and if there is no motion, it records at the minimum frame rate setting.

- No Recording

The system won't do any recording.

(3) Motion Detection

Adjust the sensitivity of the motion detection. The higher the value, the finer the sensitivity is detected. When it detects a motion, a green triangle mark would appear at the upper left corner of the screen.

9.2.2.4 Network Setting

In the Network Setting dialog box, click **Update** to accept the new settings, click **Exit** to exit without saving, and click **Default** to revert back to original factory setting. For the network service ports that use by DVR server, please see <u>Appendix A</u>.

letwork Setting		(
Server Name EXR6004WiFi	WebViewer Configuration	
Transmitting Cameras	Enable Anonymous Login	
	WebViewer PORT	80
♥ 1 ♥ 2 ♥ 3 ♥ 4 5 6 7 8	Network Time Synchronization	
9 10 11 12 13 14 15 16	, Time Server:	time.stdtime.com.tw
Main Configuration	Time Zone	GMT+00:00 -
Server IP 192.168.2.61 - Setting	Automatic synchronize at	01:00 -
Remote Console PORT 5550		Synchronize Time Right Now
Remote Update Configuration	Other Configuration	
PORT 5005	Enable White List	Detail
	Network Bandwidth Limit	Detail

(1) Server Name

Assign a name for the DVR unit. Alphabet letters and numbers only.

(2) Transmitting Cameras

Select and click on the camera number in the Transmitting Camera section you want to make it accessible via internet using WebViewer, Remote Console, PDA Viewer and JAVAViewer (still image). To select all the cameras, enable the **ALL** check box.

(3) Network Time Synchronization

Adjust the DVR system time same as network time server. Fill in the **Time Server** IP address or domain name. Select the **Time Zone** that DVR is located. And then, mark the **Automatic Synchronize** time to set automatic synchronize time on a daily basis.

(4) Other Configuration

- Enable White List

An access permit list for the remote accessing of DVR server. Enter the IP address and click **Add**. Or, enter a range of IP address and click **Add**. To delete the IP from the list, select the IP and click **Delete** button. To reset the input, click **Clear** button.

I /					
🕵 Network White List					×
 IP Range 	•		-		
Add	192.168.3	.34		 	
Delete					
Clear All					
	ОК		Cancel		

- Network Bandwidth Limit

By Channel: Set the network bandwidth by each channel. **All:** Set the total network bandwidth consumption limit.

🕵 Bandwidth Settir	ngs		×
By Channel			
Camera 01	•	64	KB/s
© All			
Total Limit		1024	KB/s
	ОК	Cai	ncel

9.2.2.5 Alarm Setting

In the Alarm Setting dialog box, click **Add** to insert and set new alarm setting, click **Delete** to remove the selected alarm setting, click **Update** to save the setting, **Exit** to exit without saving, and **Default** to revert back to original factory setting.

	Alarm Setting	Description		ſ	Add	Delete	×
	Enable Time	15 16 17 18 19 20 21 22 23	Enable	No.	Name Alarm 1	Description	
	Conditions	Action		2	Alarm 2		
	Trigger if any O Trigger if all	Launch E-Map					
	Camera						
	Motion Detected Detail	Spot Monitor	Detail				
	Video Loss Detail	Enlarge Camera View	Detail				
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16	Relay Output	Detail				
	Audio Detected	IP Camera Relay	Detail				
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16	Play Warning Sound					
_	Sensor High	Send E-Mail	Detail				
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16						
	Low	File Transmission via FTP	Detail				
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16	Start Recording	Detail				
	IP Camera Sensor	SMS	Detail				
	Continuous trigger duration 0 Seconds	PTZ preset point	Detail	_			
	Abnormal Event Detail	Alarm SOP	Detail				
	POS Keyword Detail	Send to CMS	Detail				
	Alarm Reset	Snapshot	Detail				
	High			_			
	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16						
	Low 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16						
	IP Camera Sensor						
	a contera sensor			Default	Upd	ate Exit	

- 1. Click **Add** to insert and set a new alarm setting. Click the items in the **(8)** Alarm Setting List if you want to modify the alarm setting.
- 2. In (1) No./Name/Description enter alarm name and description. Alarm No. will be created by DVR system.
- 3. In **(2) Enable Time**, the number from 00 to 23 represent the time in 24-hour clock. Select the time and click the block you want to activate or deactivate the alarm function. When it is deactivated the color of the block turns white.
- 4. In (3) Conditions, you can set "Trigger if any" to activate if it falls to one of the conditions or "Trigger if all" to activate if it falls to all conditions.
- 5. In **(4)** Camera section, select and click on the camera number (01 to 04) in **Motion Detected** and **Video Loss** to set the condition for the system to alarm.
- 6. In **(5)** Sensor, select and click on the sensor number to set the condition for the system to alarm. If the sensor normal status is high, set the sensor condition to low.
 - Enable/disable the **Abnormal Event** check box, to set the condition of the event for system to alarm.



- Reboot: when the DVR system reboot without abnormal condition, the system will send out the alarm message.
- Abnormal Reboot: when the DVR system reboot in irregular condition, the system will send out the alarm message.
- Recording is switched off: when the recording has been stopped, the system will send out the alarm message.
- Network is switched off: when the network connection of DVR system is lost, the system will send out the alarm message.
- Hard Disk failed: when the hard disk doesn't work normally, the system will send out the alarm message.
- **Continue trigger duration:** Set a time period that when sensor has been trigger and stay in the same status for that period, then the alarm will be sent out.
- 7. In **(6)** Alarm Reset, click the camera number to set the reset condition of alarm. Once alarm is reset, all alarm action will stop at the moment. If the sensor normal status is high, set the alarm reset condition to low.
- 8. In **(7)** Action, you may now set the alarm action for the system to perform when the alarm condition is activated.

- Enlarge Camera View

Switch to only display video in Preview mode from where the alarm is activated.

- a. Select the camera from drop down list to specify which camera video to be enlarged on screen when the alarm is triggered.
- b. Retrieve time: set the waiting duration before system switching back to original Preview mode.
 If the retrieve time is un-mark, the alarm video will keep enlarging until user switch back to
 Preview mode manually. The retrieve time range is 0~ 600 seconds.

🕵 Enlarge Camera View		—
Camera02 -		
Retrieve time	10	Sec.
ОК		Cancel

- Relay Output

Set to enable/disable the relay operation when the alarm is activated and to extend additional time in second before it stops the relay operation.

- 1. Next to the Relay Output check box, click Detail.
- 2. In the Alarm Relay dialog box, select from the available relay list and in the ON column, set to enable/disable the relay operation when the alarm is activated.
- 3. In the Retrieve time check box, you may enable/disable to extend the relay operation time and set the duration in second.
- 4. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

📓 Alarm R	elay	X
No.	Name Status	
01	Relay01 On	
Retrie	re time 10 Sec.	
	OK Cancel	

- Send E-mail

Send an electronic text message. Next to the Send Email check box, click Detail.

In the E-mail Setting dialog box, click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.

	📓 E-Mail Setting
(1)—	Mail Server
(1)	SMTP Server : 25
	Authentication
	ID Password
(2)—	Mail Message
	From:
	To:
	CC:
	Subject:
	subject.
	Snapshot
	Enable
	Select Camera Camera01 v
	Video Size Auto 👻
	OK

(1) Mail Server

Enter the **SMTP Server** and **port**. If your e-mail system requires user identification, enable **Authentication** check box and enter **ID** and **Password**.

(2) Mail

Fill the mailing information.

From: Enter the sender e-mail address.

To and CC: Enter the recipient email address and separate it with comma or a semicolon (;). **Subject:** Enter the message title.

Message: Type the message.

- Start Recording

Record the video from the selected camera.

- 1. Next to the Start Recording check box, click **Detail**.
- In the Alarm Recording Setting dialog box, select the camera to enable/disable video recording. Enable All to select all cameras.
- In the Frame Rate selection, select As Setting to record the number of frames based on the Recording Setting.
- In the Start Record prior text box, mark and set the number in second for the program to begin recording after the alarm has been trigger. The time range is 1~10 seconds.

Ŕ	Alarm	Recording	g Setting					- ×-
[All							
	Record	ling Cam	neras					
	1	⊘ 2	3	₹4	5	6	7	8
	9	10	11	12	13	14	15	16
	Frame	Rate						
	As	Setting		© Ma	х			
	🗹 Star	t Recordi	ing prior		[0	Seco	nds
	Stop	Recordi	ng after		[0	Seco	nds
					C	K	(Cancel

- 5. In the **Stop Record after** text box, mark and set the number in second for the program to continue recording after the alarm has ended. The time range is 1~999 seconds. If user doesn't mark and set the time, the alarm recording will continue recording until alarm is reset.
- 6. Click **OK** to accept the new settings and **Cancel** to exit without saving.

- PTZ preset point

 Position the PTZ camera based on the preset point setting. Next to the PTZ preset point check box, click **Detail**. In the Trigger PTZ Preset Setting dialog box, select the PTZ camera number then select the **Enable** check box. Select the position of the PTZ camera when the alarm is activated and ended. For the PTZ camera end point, user can also select on preset position or **Auto Pan** between preset position groups.

RS T	rigger P	TZ Preset	Setting						x
Se	lect Car	mera	C	amera()1	•			
	Enable								
P	reset N								
		Trigger	0.2	01	@ F	66	07	0	
	9	◎ 10	011	0 12	13	0 14	0 15	0 16	
	Alarm	Close							
	◎1	© 2	© 3	© 4	© 5	© 6	◎ 7	© 8	
	© 9	© 10	© 11	© 12	© 13	© 14	© 15	© 16	
	Aut	toPan							
		1	- 4			5 - 8			
		9 -	- 12			13 - 16			
						ОК		Cance	

- Send to CMS (Central Management System) Enable/disable the selected camera to send video to CMS when the alarm is activated. Next to the Send to CMS check box, click Detail. In the CMS Setting, select the camera to enable/disable sending the video to CMS. Enable All to select all cameras. Then, click OK to accept the new settings and Cancel to exit without saving.

R	CMS Se	tting						×	
	All								
	Transm	nitting C	ameras						
	1	2	3	4	5	6	7	8	
	9	10	11	12	13	14	15	16	
					Oł	(С	ancel	

9.3 Remote Backup

Remote Backup is purely for backing up the *.dvr file from the DVR sever. You can select between Auto Backup and Manual Backup. Auto Backup continuously archives one hour of the recorded data at a time, starting from the specified date. As for Manual Backup, it only archives the recorded data of selected date.



To back up the data, you must have at least 2G hard disk space.

9.3.1 To back up the recoded data from the DVR server:

- 1. Make sure you are connected to the internet.
- 2. Click Start >> Program >> Web Tool >> Remote Backup
- 3. To add the DVR server, click Add

	Add Delete Modify Manual Backu File Select Language English		Enable Backup	Backup Mode	Туре	Status	Progress	Chann	PORT	IP	Name	ŧ
	Modify Manual Backu File Select	Add										
Manua	Manual Backup File Select	Delete										
File	File Select	Modify										
	Language	-Manual Backu										
Langu		File Select										
	English	Language										
Englist		English										
	Start											
		ReConnect										

4. In the Add New DVR window, enter the Name, IP, user ID, and password.

DVR Setting					X
Name	DVR 01				
IP		User ID			
Port	80	Password			
 Auto Backup 					
- Storage Path —				Disk Recycle	
Folder Name		Free Space	Disk	Space(Used)	
C:\Auto_Back	up	6.26G	10.00)G	
					-
					-
Begin Date	2008/11/25	Schedule	Add	Delete	
⊖Manual Backu	ıp				
Storage Path	C:\Manual_Backup]
				Browse	
		(ОК	Cancel	

5. Select the Backup mode:

Auto Backup mode: the backup will automatically execute when the setup is completed

- In Begin Date drop down calendar, select the date from where to start
- Click Add to set the storage path.
- Click **Delete** to remove the selected storage path.
- Click **Schedule** to select/unselect the time you want to backup. The red block turns white when it is unselected.

- Enable/disable **Disk Recycle** check box, to automatically overwrite the oldest file when there is not enough free space to backup the file.

Manual Backup mode: the backup progress will start when user press the backup button

- Click File Select to choose the date, time and camera you want to back up.
- Click **Browse** to set the storage path.
- 6. Click **OK** to complete the adding DVR server. The added DVR server will display in Remote Backup main window.



7. Click Start to begin backup and click Stop to stop backup progress.

Bac	kupSetup		_							Θ
#	Name	IP	PORT		Progress	Status	Туре	Backup Mode	Enable Backup	
01	DVR 01	192.168.0.120	80	16	Ch3 -> 4 %	Connected	EXR	Auto	✓ ON	
										Add
										Delete
										Modify
										-Manual Backu
										File Select
										Language
										English
										Stop
										ReConnect

While backup, the **Start** button will turn to **Stop** button

8. For manually backup, click **File select** button and select the DVR to backup.

#	Name	IP	PORT	Chappa	Progress	Status	Туре	Backup Mode	Enable Backup	l
# 1	DVR 01	192.168.0.120	80	16	Finish	Connected	EXR	Manual		
-	DVIC 01	192.100.0.120	00	10	T II Nort	Connected	EXIX	Manuan		Add
										Delete
										Modify
										Manual Back
										File Select
										English
										English
										Start
										ReConnect

Appendix A Registering Domain Name

DDNS (Dynamic Domain Name Service) is a data query service mainly used on the Internet for translating domain names into Internet addresses. It allows remote clients to intelligently search dynamic servers without any previous enquiring for servers' Internet addresses.

In order to take advantage of this intelligent service, first register your domain name on the following Web site http://ddns.avers.com.tw

1. User Login

Browse the website ddns.avers.com.tw with Microsoft IE browser to access the following dialog.

User Login					
CD-Key No.					
Product	~				
OK Reset					

- 2. First input the MAC address of DVR unit as the CD-Key No. and select the product name. Then click **OK** to login or **Reset** to clear the previous input.
 - To know the MAC address of DVR unit, please check the sticker on the back panel of DVR unit.
 - Also, user can find the MAC address of DVR unit from the Main Configuration of Network Setting. Please select SETUP → NETWORK → Main Configuration.

3. User Information

Please provide the following user information, **Host Name** (user can choose any name he/she likes except the one violence with other users), **Password**, **E-mail**, **Company**, and **Country**. And then, click **OK** to complete the domain name registration.

Us	er Information	
Host Name	AVerMedia	*
Domain Name	avers.com.tw	
Password	kolok	*
Confirm Password	2010k	*
E_mail	odysseus@ms1.url.cor	*
Company	AVerMedia	
Company	Avennedia	
Country	Taiwan	•
	Reset	

Appendix B Specifications

Operating system	Embedded Linux
Camera Inputs (IP)	4
Video Streaming Format	H.264/MPEG4/ MJPEG
IP Recording Resolution	Each individual channel can support a maximum of 2.3 Megapixels
Display Frame Rate (NTSC/ PAL)	CIF:120/100 fps ; D1: 60/50 fps
Recording Frame Rate (NTSC/ PAL)	CIF: 120/100 fps ; D1: 120/100 fps
Audio in/ Audio out	4/1
Sensor in/ Relay out	4/1
Number of HDD supported (Optional)	1 internal SATA HDD and 1 e-SATA connector for external HDD
eSATA port	1
VGA out	1
Ethernet	10/100/1000Mbps
LAN Port	Dual Gigabit LAN ports
RS-485 port	1
USB 2.0	Front 1 port; Rear 2 ports
Operator interface	USB Mouse, Keyboard, Remote Control(coming soon)
Recording modes	Continuous Recording / Smart Recording / Motion Recording / Alarm Recording / Manual Recording.(All modes can be triggered by schedule)
Motion detection	Yes
E-map function	Yes
Video search	Date/ Time/ Event/ Camera
PTZ control	Yes
Advanced event log viewer	Details complete event logs according to your selection on event, operation, system and network events
Smart alert functions	Launch E-map / Enlarge camera view / Relay Output / IP Camera Relay Output / Warning sound / Email / PTZ preset point tracking / Start recording / Send video to CMS
Integrate with CMS	Yes (AVerDiGi CM3000 Gold supports up to 1000 DVRs)
Remote software	WebViewer/ Remote Console/ JavaViewer/ PDAViewer/3GViewer/iViewer
Dispatch server	Yes
iEnhance/iStable software	Yes
Power adaptor	12V / 4.0A
Bundled accessory	Mouse (AVerDiGi MU3000/3100)
Optional accessory	AVerDiGi TM1700/1900 (Touch Monitor), AVerDiGi RW2001 (External USB DVD RW), AVerDiGi E-IO Box (Sesor/Relay extension box), AVerDiGi HDD Box (e-SATA external HDD Box), AVerDiGi RA4000e (e-SATA RAID), AVerDiGi 1301 (MegaPixel IP camera), AVerDiGi RS232TORS485 converter, AVerDiGi USB2RS232/485 converter
Dimensions(W x H x D)	235 x 160 x 53 mm
Support major brands of IP cameras	ACTi, AirLink, ALPHA, AMTK, APPRO, Approtech, Arecont, Asoni, AVerDiGi, AVICO, AXIS, BOSCH, CANON, Dentec, D-Link, Dynacolor, EtroVisioin, Eyeview, Hunt, iLink, iCanTek, IPD, IQinvision, IQeye, JVC, Level-one, Lilin, Linksys, Lumenera, Messoa, Mobotix, NipponSeki, Pixord, Panasonic, Pelco, Samsung, Sanyo, Sony, TOSHIBA, Truen, Veo, Vivotek, YOKO, ZAVIO, etc and we are able to integrate new IP camera based on customers' requests

WARRANTY NOTICE

LIMITED WARRANTY

AVerMedia INFORMATION, Inc. warrants this product to be free of defects resulting from faulty manufacture or components under the following terms:

WARRANTY LENGTH

Labor is warranted for (1) one year from the date of purchase

Parts are warranted for (1) one year from the date of purchase

Replacement products will be warranted for the remainder of the one year warranty period or (30) thirty days, whichever is longer

WHO IS PROTECTED

This warranty is enforceable only by the first consumer purchaser

WHAT IS AND IS NOT COVERED

Except as specified below, this warranty covers all defects resulting from faulty manufacturing of this product. The following are not covered by the warranty.

- 1. Any product on which the serial number has been defaced, modified, or removed
- 2. Damage, deterioration, or malfunction resulting from:

Accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, commercial or industrial use, unauthorized product modification, or failure to follow instructions included with the product.

Misapplication of service by someone other than the manufacturer's representative

Any shipment damages (Claims must be made with carrier)

Any other cause which does not relate to a product defect

- 3. Cartons, cases, batteries, cabinets, tapes, or accessories used with product
- 4. AVerMedia does not warrant that this product will meet your requirements; it is your responsibility to determine the suitability of this product for your purpose

WHAT WE WILL AND WILL NOT PAY FOR

We will pay labor and material expenses for covered items. However, we will not pay for the following:

- 1. Removal or installation charges
- 2. Shipping charges
- 3. Any incidental charges

EXCLUSION OF DAMAGES

THE MANUFACTURER'S SOLE OBLIGATION AND LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF A DEFECTIVE PRODUCT AT OUR OPTION. THE MANUFACTURER SHALL NOT, IN ANY EVENT, BE LIABLE TO THE PURCHASER OR ANY THIRD PARTY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE (INCLUDING, BUT NOT LIMITED TO, DAMAGES RESULTING FROM INTERRUPTION OF SERVICE AND LOSS OF BUSINESS) OR LIABILITY IN TORT RELATING TO THIS PRODUCT OR RESULTING FROM ITS USE OR POSSESSION.

LIMITATIONS OF IMPLIED WARRANTIES

There are no other oral or written warranties, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose. Any implied warranties are limited in duration to one year from the date of purchase

STATE LAW AND YOUR WARRANTY

This warranty gives you specific legal rights, and you may also have other rights granted under state law. These rights vary from state to state

CONTACT INFORMATION

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