AVerMedia®

AVer DiGi

SEB5108 & SEB5116 series

 SEB5108H Lite
 SEB5116H Lite

 SEB5108H⁺
 SEB5116H⁺

User's Manual

Sept. 2010

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)

CE 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/EC.

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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The mark of Crossed-out wheeled bin indicates that this product must not be disposed of with your other household waste. Instead, you need to dispose of the waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. For more information about where to drop off your waste equipment for recycling, please contact your household waste disposal service or the shop where you purchased the product.

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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- THE INFORMATION CONTAINED HEREIN IS TO BE CONSIDERED FOR REFERENCE ONLY.



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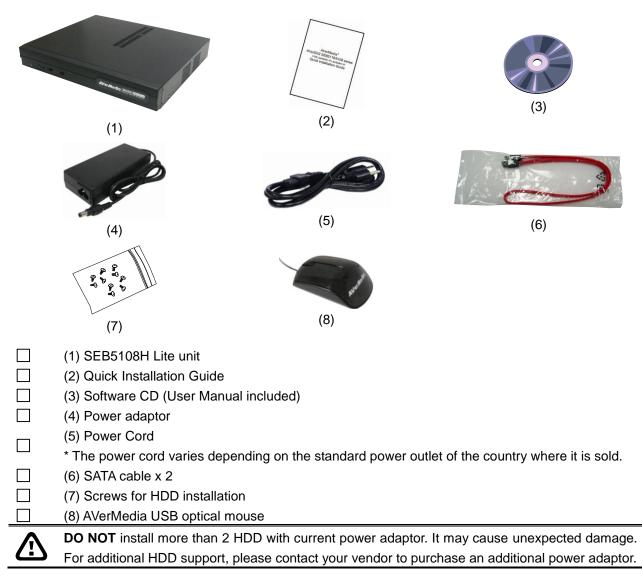
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Chapter 1 Introduction

1.1 Package Content

1.1.1 SEB5108H Lite



1.1.2 SEB5108H⁺

NorMada	(1)	Andrews Andrew	(3)
	(4)	(5)	(6)
	(7)	(8)	
	 (1) SEB5108H⁺ unit (2) Quick Installation Guide (2) Software CD (Lear Manual inclusion) 	(dod)	
	(3) Software CD (User Manual inclu(4) Power adaptor	laea)	
	(5) Power Cord		
		on the standard power	outlet of the country where it is sold.
	(6) SATA cable x 2		
	(7) Screws for HDD installation		
	(8) AVerMedia USB optical mouse		
			otor. It may cause unexpected damage. purchase an additional power adaptor.
	support, please		

1.1.3 SEB5116H Lite

(1)	(2)	(3)
(4)	(5)	(6)
(7)	(8)	
 (1) SEB5116H Lite unit (2) Quick Installation Guide (3) Software CD (User Manual (4) Power adaptor (5) Power Cord 	included)	
	1	outlet of the country where it is sold.
DO NOT install more than 2 H	DD with current power adapt	or. It may cause unexpected damage. purchase an additional power adaptor.

1.1.4 SEB5116H⁺

Nethodo	(1)	Astrono de la factoria de la constanción de la constancición de la constanción de la constanción de la	(3)
	(4)	(5)	(6)
	(7)	(8)	
	(1) SEB5116H ⁺ unit		
	(2) Quick Installation Guide(3) Software CD (User Manual include)	ded)	
	(4) Power adaptor		
	(5) Power Cord		
		on the standard powe	r outlet of the country where it is sold.
	(6) SATA cable x 2		
	(7) Screws for HDD installation		
	(8) AVerMedia USB optical mouse		
$\mathbf{\Lambda}$			ptor. It may cause unexpected damage.
	For additional HDD support, please	contact your vendor to	o purchase an additional power adaptor.

1.1.5 Optional Accessories



Remote control



DVI cable for SEB5116H series only (16CH Loop out)



Audio cable for SEB5116H series (Red cable: 16CH audio in White cable: 1CH audio out Black cable: 1CH MIC in)



Audio cable for SEB5108H series (Red cable: 8CH audio in White cable: 1CH audio out Black cable: 1CH MIC in)



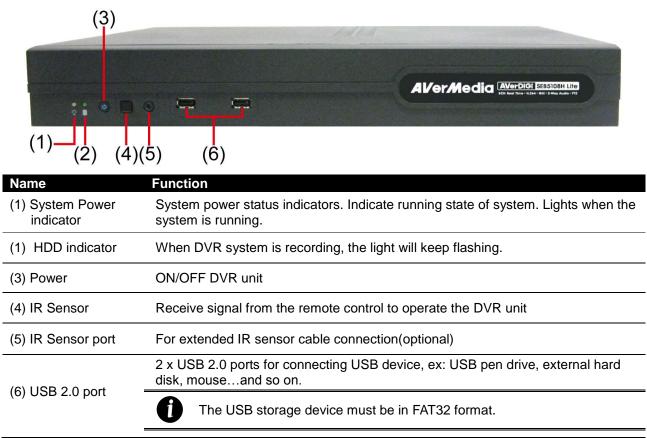
90W Power Adaptor (Included HDD Holder for 4th HDD and SATA Cable)



Rack ears

1.2 Front Panel

1.2.1 SEB5108H/SEB5116H Lite



1.2.2 SEB5108H⁺/SEB5116H⁺

(4) (3) (2) (1) (1)	(5) (6) (7) (8) (9) (7) (8) (9) (7) (8) (9) (7) (8) (9) (7) (8) (9) (9) (9) (10) (10) (11) (10) (11) (12) (12) (12) (12) (12)		
Name	Function		
(1) System indicator	 Power indicator: System power status indicators. Indicate running state of system. Lights when the system is running. Recording indicator: When DVR system is recording, the light will keep flashing. 		
(2) IR Sensor port	For extended IR sensor cable(optional)		
(3) IR Sensor	Receive signal from the remote control to operate the DVR unit		
(4) Power	ON/OFF DVR unit		
(5) DVD+RW	To backup the recorded file to DVD±R/DVD±RW disk		
(6)	n optional accessory. User need to purchase additional. To enable/ disable recording video		
(7)	To reset alarm status		
(8)	Switch between playback mode and preview mode		
(9)	Call out system setup menu on preview mode		
	Call out playback menu on playback mode		
	Move to left direction on menu control To move PTZ camera lens to left in PTZ mode		
	Move to right direction on menu control To move PTZ camera lens to right in PTZ mode		
(40) Operating Deuttonia	To move PTZ camera lens to right in PTZ mode		
(10) Control Buttons	Move to up direction on menu control		
	To move PTZ camera lens to down		
	Move to down direction on menu control		
	Confirm or make a selection		

Name	Function
Name	Function • Channel camera selection number in playback and preview mode. For the channel over 10, press +10, then press • • • • • • • • • • • • • • • • • • •
(11) Number buttons	Ingrit up blue. To exit multiple function modes, press again. FN + GHI : Switch to 9 spilt screen display mode FN + GHI : Switch to 16 split screen display mode : FN + FN + Struct : Switch to one single and 7 + 1 spilt screen display mode : FN + GMNO : Switch to one single and 12+ 1 spilt screen display mode :
	FN + 7PQRS : Enable/disable channel auto switch cycle
(12) USB 2.0 port	2 x USB 2.0 ports for connecting USB device, ex: USB pen drive, external hard disk, mouseand so on.
(13)	To playback video at faster speed
(14)	To pause playback
	To start playback
(15)	To rewind the recorded video
(16) A-B	Set a video segment to playback repeat(see also Chapter 1.2.2.1)
(17)	To backup recorded video file to USB storage device(pen drive or external hard disk) and DVD-ROM.

Name	Function
	Operate the PTZ cameras automatically based on the selected camera group preset position number.
(18)	Without setup preset position, the preset button () will not be functional when press it. To setup preset position, please refer to Chapter 3.2.3.
(19) じ	Adjust the PTZ lens to the position that user wants. And then, press with number button to setup the PTZ camera preset position.
(20) Speed + / Speed -	• To speed up movement of PTZ camera lens
	C To speed down movement of PTZ camera lens
	To focus in PTZ camera lens
(21) Focus + / Focus -	To focus out PTZ camera lens
(00) 7 (7	To zoom in view of PTZ camera lens
(22) Zoom + / Zoom -	Q To zoom out view of PTZ camera lens

1.2.2.1 To Set a Video Segment and Save

Keep a portion of the recorded video. Following the below steps to Set and Save the Wanted Portion of the Recorded Video

- 1. While playback, press (A-B) button and the A point of video segment is set. User should see the word "A-"on upper right of surveillance screen.
- 2. Press AB again to set B point of video segment. User should see the word "A-B" on upper right of surveillance screen.
- 3. The DVR system will start repeat playback the video segment that user has set until user cancel the video segment. Press A-B again or right-click on playback screen will cancel the video segment.
- 4. To save the video segment, left-click on the channel screen that user wants to save to switch to single screen mode.
- 5. And then, Plug in the pen drive device.
- 6. Click and select **Segment** from playback menu.

Save path	USB-1:U3	•	
File name	2009_12_14_0_0_2		Save
Туре	DVR Files (*.dvr)	•	Cancel

 Click Save to output the video segment to USB storage device. Mark Include Player when backup to include the Qplayer application in output video segment folder for playback (see also <u>Chapter 2.5</u>).

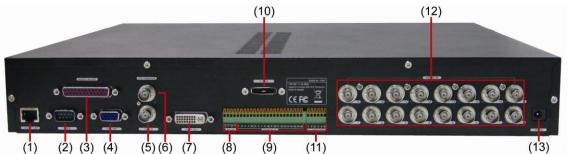
1.3 Back Panel

1.3.1 SEB5108H Lite/SEB5108H⁺

	(10)	(12)	
	19		
		00000	
(1) (2)(3)(4) (5)(6)	(7)(8) (9)	(11)	(13)
Name Functi	on		
(1) LAN Port For Gig	abit Ethernet connection	on	
(2) RS232 port For cor	nnecting GSM modem.		
(3) Audio Out Output	the audio signal to aud	lio output device	
The audio input device has its c	wn power supply is ne	cessary.	

(4) VGA Out	Output the video signal to a CRT or LCD monitor
(5) TV Out	Output the video signal to TV
(6) Spot Monitor	To display video on the Spot monitor when receive a alarm video
(7) RS485	For PTZ camera connection (also see Chapter 1.5.2.3)
(8) Sensor In	Support up to 16 sensor devices
(9) Relay Out	Support 4 relay devices (Relay: 1A @ 125V AC/30V DC)
(10) eSATA interface	For connecting with eSATA storage
(11) CH1~ 8	Input the video camera signal and display it on channel 1~ 8
(12) Video Loop Out(8CH)	Output the video signal to a CCTV monitor
(13) Power Plug	Connect the power cord into this port (19V DC)

1.3.2 SEB5116H Lite/SEB5116H⁺



	(1) (2) (3) (4) (4)	(13)
Nam	ne	Function
(1)	LAN Port	For Gigabit Ethernet connection
(2)	RS232 port	For connecting GSM modem.
(3)	Audio Out	Output the audio signal to audio output device
0	The audio input device	e has its own power supply is necessary.
(4)	VGA Out	Output the video signal to a CRT or LCD monitor
(5)	TV Out	Output the video signal to TV
(6)	Spot Monitor	To display video on the Spot monitor when receive a alarm video
(7)	Video Loop Out(16CH)	Output the video signal to a CCTV monitor
(8)	RS485	For PTZ camera connection (also see <u>Chapter 1.5.1.3</u>)
(9)	Sensor In	Support up to 16 sensor devices
(10)	eSATA interface	For connecting with eSATA storage
(11)	Relay Out	Support 4 relay devices (Relay: 1A @ 125V AC/30V DC)
(12)	CH1~ 16	Input the video camera signal and display it on channel 1~ 16
(13)	Power Plug	Connect the power cord into this port (19V DC)

1.4 Setting Up the DVR Unit

1.4.1 Installing the Hard Disk

The DVR unit allows user to install up to 4 SATA hard disks inside the DVR unit but how many hard disk can be installed is limit to power supply of DVR unit. If User doesn't know how many hard disks can be installed on the DVR, please contact your local dealer.



For hard disk spec, please referring to <u>http://www.avermedia.com/AVerDiGi/Product/</u> \rightarrow Embedded Analog DVR \rightarrow AVerDiGi SEB5116H series/SEB5108H series \rightarrow Hardware Recommendations



DO NOT install more than **2 HDD** with current power adaptor. It may cause unexpected damage. For additional HDD support, please contact your vendor to purchase an additional power adaptor.

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.

Follow the illustrated instructions below to install the hard disk:

1. Loosen all screws (2 sides and back)



2. Push the cover backward and lift to open the case cover.



3. Loosen the screws of holder to make hard disk install more easily.



4. Loosen all the screws of hard disk plate.



5. The hard disk plate can be installed 3 hard disks. 6. User can choose the position and place the hard disk on it.



The power adaptor now only guarantees to support 2 HDD. If you require installing more than 2 HDD, please contact your local vendor to avoid unexpected damage of DVR system.

 Screw the plate within hard disk inside the DVR 8. unit



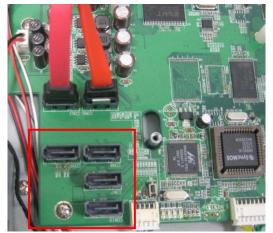
Turn the plate and hard disk over carefully and screwed the hard disk on the plate. If hard disk cannot be fit to the screw hole, then, you may adjust the hard disk position to fit the screw hole.



. Plug the power cable into hard disk



9. Plug the SATA cable into SATA connector on the 10. Plug another side of SATA cable into hard disk PC board





- 11. Screw the holder on the DVR unit
- 12. Push the cover forward and secure the cover



13. You may now connect all the cables and power on the DVR unit.

1.4.2 Connecting Devices

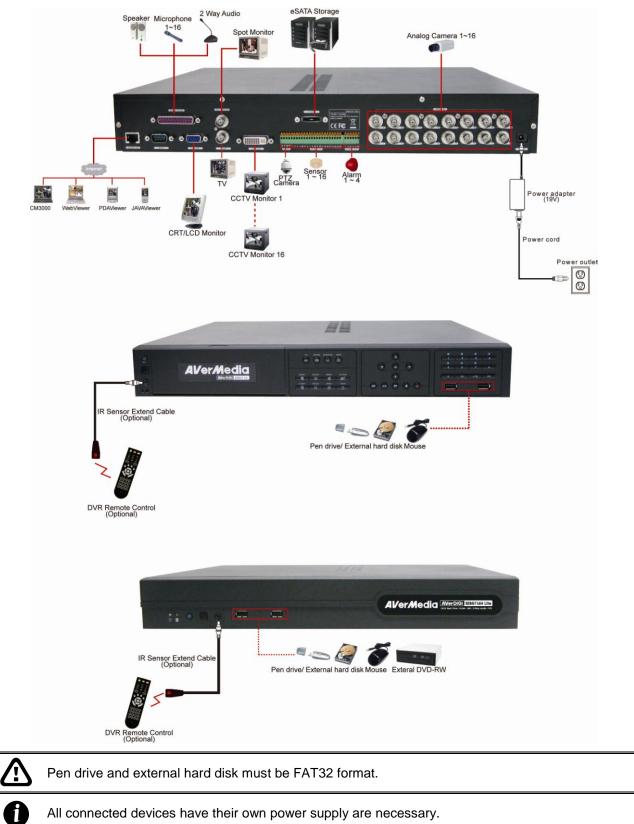
The back panel of the DVR unit, user can connect up to 16/8 cameras of analog camera that depends on the DVR you have purchased. The DVR unit also can connect 16/8 sensor devices, 4 alarm devices, and output video to a TV or CRT/LCD monitor. For backup recorded video, plugging the pen drive or external hard disk through USB port or backup to DVD-ROM disk, and then, use the bundled software enables user to transfer, playback and segment the video. Follow the illustration below to make the connection:

eSATA CCTV Monitor CCTV Monitor 08 Spot Monitor R. 000000 66 Sensor 1~8 PTZ 1 Power adapter (19V) Analog Camera 1~08 CRT/LCD Monitor Power cord Power outlet 8 (B) 目目 6 6 AVer Media R Sensor Extend Cable (Optional) drive/ External ha DVR Remote Control (Optional) > 6 IR Sensor Extend Cabl (Optional) drive/ External hard disk Exteral DVD DVR Remote Control (Optional) Pen drive and external hard disk must be FAT32 format.

1.4.2.1 SEB5108H Lite/SEB5108H⁺

All connected devices have their own power supply are necessary.

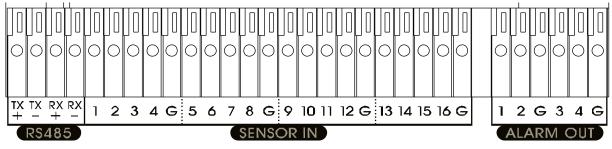
1.4.2.2 SEB5116H Lite/SEB5116H⁺



1.5 Sensor, Relay and RS485 pinhole allocation

1.5.1 SEB5116H Lite/SEB5116H⁺

The Sensor and Alarm enable you to connect 16 sensor inputs, 4 relay outputs and 1 PTZ camera. Just connect the external sensor, relay, and PTZ camera pin directly to the pinhole. Check the table below and locate which pinhole is assigned to sensor input and relay output.



1.5.1.1 Sensor Pin Definition

Sensor Pin #	Definition	Sensor Pin #	Definition
1	Sensor 1 signal	9	Sensor 9 signal
2	Sensor 2 signal	10	Sensor 10 signal
3	Sensor 3 signal	11	Sensor 11 signal
4	Sensor 4 signal	12	Sensor 12 signal
G	Sensor ground	G	Sensor ground
5	Sensor 5 signal	13	Sensor 13 signal
6	Sensor 6 signal	14	Sensor 14 signal
7	Sensor 7 signal	15	Sensor 15 signal
8	Sensor 8 signal	16	Sensor 16 signal
G	Sensor ground	G	Sensor ground

1.5.1.2 Relay Pin Definition

Relay Pin #	Definition
1	Relay signal
2	Relay signal
G	Relay ground
3	Relay signal
4	Relay signal
G	Relay ground

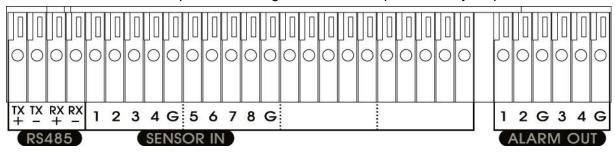
1.5.1.3 RS485 Pin Definition

When connect PTZ camera through RS485 interface, please refer to the following pin definition to connect the DVR and PTZ.

Pin #	DVR site	PTZ site		
TX+ RS485 TX+ signal		RS485 RX+ signal		
TX- RS485 TX- signal		RS485 RX- signal		
RX+	RS485 RX+ signal	RS485 TX+ signal		
RX-	RS485 RX- signal	RS485 TX- signal		

1.5.2 SEB5108H Lite/SEB5108H⁺

The Sensor and Alarm enable you to connect 8 sensor inputs, 4 relay outputs and 1 PTZ camera. Just connect the external sensor, relay, and PTZ camera pin directly to the pinhole. Check the table below and locate which pinhole is assigned to sensor input and relay output.



1.5.2.1 Sensor Pin Definition

Sensor Pin #	Definition
1	Sensor 1 signal
2	Sensor 2 signal
3	Sensor 3 signal
4	Sensor 4 signal
G	Sensor ground
5	Sensor 5 signal
6	Sensor 6 signal
7	Sensor 7 signal
8	Sensor 8 signal
G	Sensor ground

1.5.2.2 Relay Pin Definition

Relay Pin #	Definition
1	Relay signal
2	Relay signal
G	Relay ground
3	Relay signal
4	Relay signal
G	Relay ground

1.5.2.3 RS485 Pin Definition

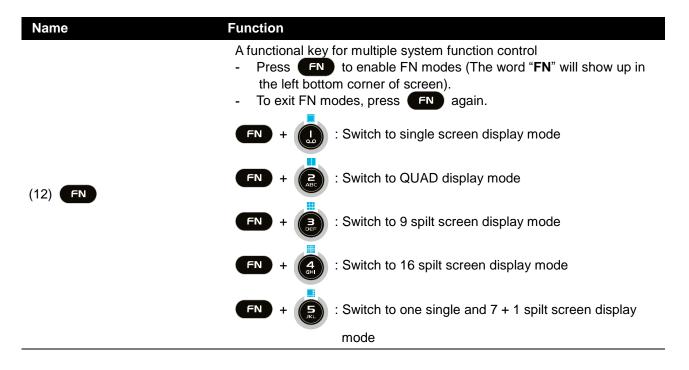
When connect PTZ camera through RS485 interface, please refer to the following pin definition to connect the DVR and PTZ.

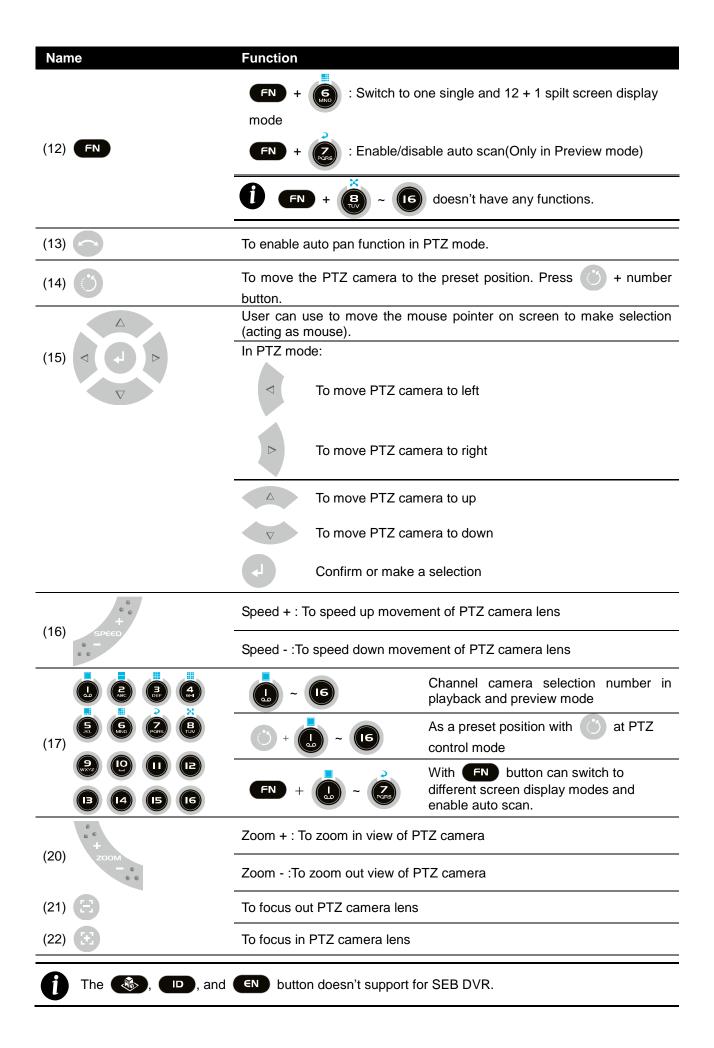
Pin #	DVR site	PTZ site
TX+ RS485 TX+ signal		RS485 RX+ signal
тх-	RS485 TX- signal	RS485 RX- signal
RX+	RS485 RX+ signal	RS485 TX+ signal
RX-	RS485 RX- signal	RS485 TX- signal

1.6 Familiarizing the Remote Control Buttons

Use the Remote control to operate the DVR unit.

	Name	Function
	(1)	Switch to playback mode. Press again to switch back to preview mode.
	(2)	Start recording video. Press again to stop recording.
(4) (6) DATE/TIME BACKUP AB (7) (2) (3) (6)	(3)	To call out setup menu in preview mode/playback mode.
(10) (10) (12) (12) (12) (10) (10) (11)) (4)	To rewind the recorded video. While rewinding, user can press to adjust the play speed (1x, 2x, 4x, 8x, 16x, 1/16x, 1/8x, 1/4x, 1/2x). Press rule twice can back to 1x play speed.
(19) (19) (14)		To start playback or back to 1x play speed.
	(5)	To pause playback.
(18) (16)	(6)	Adjust play speed(1x, 2x, 4x, 8x, 16x, 1/16x, 1/8x, 1/4x, 1/2x)
2004 9460	(7)	To select the time and date of playback file
	(8) А-в	Set a playing recorded video from A point to B point segment and repeat playing on surveillance screen. Press (A-B) can stop AB segment playback.
	(9)	To backup recorded video file to USB pen drive.
	(10) 🐞	Press to reset the alarm when there is an alarm event occurred.
		Switch to PTZ mode. Press 🛋 + channel
RM-LD	(11)	number () ~ () can switch to PTZ control
		mode if the selected camera is a PTZ camera and the PTZ function is enabled.





Chapter 2 Using the DVR Software

2.1 The Way to Operate DVR

There are 3 ways to operate and configure the DVR unit:

- 1. Using mouse: Using mouse with virtual keyboard can easily to configure DVR setting.
- 2. Using Front Panel button(see also Chapter 1.3)
- 3. **Using Remote Control:** It's an optional way to operate DVR unit. Remote control function acts as same as front panel button.

2.2 First Time Using the DVR Unit

- 1. Connect the mouse to DVR unit(through USB interface)
- 2. Power on the DVR unit.
- 3. The preset screen (color bar) will show up and wait for preview screen to display (about 60 seconds).
- 4. When preview screen show up, please wait for the authorization dialog pop-up (about 45 seconds). For security purpose, enter the User ID (default is **Admin**; case sensitive) and Password (default is **111111**) to login the DVR system.



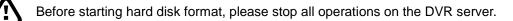
The Admin account has the full authority to operate and configure the DVR system.

Aut	horizat	ion
User ID	Admin	
Password	[
	Login	Cancel



Preview Mode (SEB5116H series)

5. The hard disk must be formatted before user can use it to record the video. Following the below steps to format the hard disk.



a. Click is to call out **SETTING MENU**.



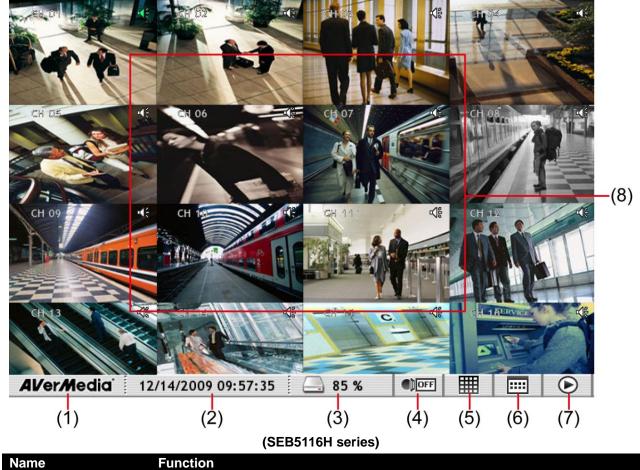
- b. Click System \rightarrow System and click Next.
- c. Click **Refresh** button to detect the installed hard disk.
- d. Select the hard disk that user wants to format it.
- e. And then, click Format to start formatting.
- 6. Setup the date and time in order to have correct system time and date. Following the below steps to setup date and time:
 - a. Click and select System \rightarrow System and click Next.
 - b. In Time section, click Setting button of System Time.
 - c. Select the date and adjust the time, and then, click **OK**.
- 7. Setup the Schedule to record.
 - a. Click \longrightarrow Setting \rightarrow Schedule \rightarrow System
 - b. Select the date and type of record (Weekly, Month, or None).
 - c. And then, select the week day (Sun. ~ Sat.) and hours (00 ~ 23) by click the week day and hours table.
 - d. Click Save and click **Record** tab.
 - e. Select the record mode (Always, Motion, Sensor, or Smart) and date.
 - f. And then, select the week day (Sun. ~ Sat.) and hours (00 ~ 23) by click the week day and hours table.
 - g. Click Save and OK to complete the record schedule setting.
- 8. To start recording, click (record) button.

2.2.1 Using the Virtual Keyboard

Use the Virtual Keyboard and mouse to configure the DVR system. Just click end or select the column and right-click to call out the virtual keyboard. For uppercase, click **Caps** button. To exit, click left-click anywhere on screen.

Esc	1	2	3	4	5	6	7	8	9	0	;
Enter	q	w	е	r	t	У	u	i	0	Р	_,
Caps	+	a	S	d	f	g	h	j	k		-
Clear	+	•	z	x	С	v	b	n	m	1	

2.3 Familiarizing the Functions in Preview Mode



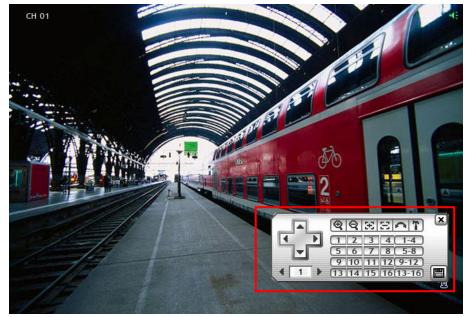
Naine	Function		
(1) Login	Click to select reboot the DVR system or re-login in different account.		
(2) Status	Display recording date and time		
(3) Hard disk usage	Display the hard disk usage of capacity in percentage.		
(4) Record	Start/stop video recording.		
Recording sched	edule must be setup in order to record. Please refer to Chapter 3.4.2 to setup ule.		
(5) Split screen mode	Select from 6 different split screen types to view all the camera, or one camera over the other or alongside on a single screen. It also allows you to switch and view different camera number.		
- When you a	on channel can switch to full screen mode of the channel. are in single screen mode, Right-click on the area you want to enlarge view. gain will back to normal screen view.		
(6) Setup menu	To call out system setup menu		
(7) Playback	Switch to Playback mode. This allows you to view the recorded video file. (see also Chapter 2.4)		
(8) Channel preview	To display live video of all channels		

2.3.1 Using the PTZ Control Panel

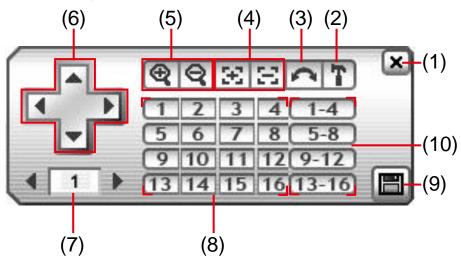
User can using PTZ control panel to operate the PTZ camera in preview mode. Before to use it, please enable the PTZ camera first (see also <u>Chapter 3.2.3 PTZ Camera Setting</u>) When PTZ camera is enabled and set, the PTZ control icon will show on the channel screen.



Click on the PTZ control icon to call out PTZ control panel.



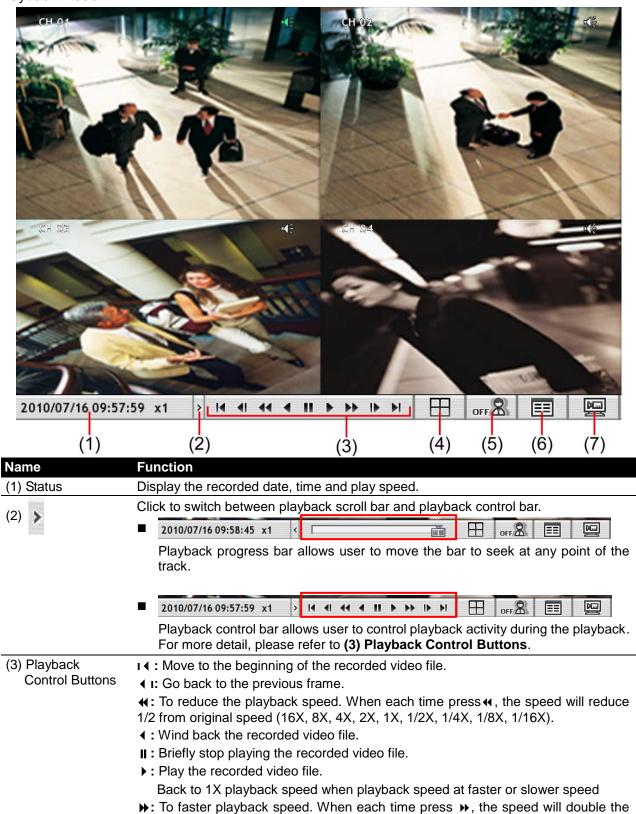
2.3.1.1 Familiarizing the Buttons in PTZ Control Panel



Name	Function
(1) Close	Exit PTZ camera controller.
(2) Setup	Configure PTZ cameras.
(3) Auto Pan	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 lens speed controller	Adjust the moving speed of the PTZ camera lens.
(8) Camera preset position number	Move the PTZ camera to the preset point.
(9) Save Camera preset position	Save the PTZ camera preset position number. Select the camera and click the preset position number and save it.
(10) Group Auto Pan	Select to automatically operate PTZ camera in group.

2.4 Familiarizing the Functions in Playback Mode

Click **(playback)** button at the lower right corner of Preview mode user interface to switch to Playback mode.



- playback speed (1/16X,1/8X, 1/4X, 1/2X, 1X, 2X, 4X, 8X, 16X).
- I >: Go to the next frame.
- ▶ **I**: Go to the end of the recorded video file.

Name	Function
(4) Split Screen Mode	Select from 6 different split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.
(5) De-interlace	To enhance the video quality. Set the de-interlace mode to #1 , if you are capturing motionless picture and select #2 , if it captures lots of movement. To disable the de-interlace function, select off .
(6) Playback menu	To call out playback menu(see also <u>Chapter 2.4.1</u>)
(7) Preview	Switch to Preview mode.

2.4.1 Familiarizing the Functions in Playback Menu

Click 📃 to call out the playback menu.



2.4.1.1 Select Playback File from Calendar

1

Select recorded file by date and time. Select the **Calendar** from Playback menu and Calendar Search window will appear. User can select the date, hour, and minute and click **OK** to playback.

The purple color blocks mean the block is selected. The blue color blocks mean that has recorded file.

			009/12				Normal		
Sun	. Mon.	Tue.	Wed.	Thu.	Fri.	Sat.			
29	30	1	2	3	4	5			
6	7	8	9	10	11	12			
13 20	14 21	15 22	16 23	17 24	18 25	19 26			
27	28	29	30	31	1	20			
3	4	5	6	7	8	9			
elect Ho 0 0:		06	08	10	12	14 1	16 18	20	22
elect Mi	nute								
0	10		20		30	4	0	50	

2.4.1.2 Using the Event Log Viewer

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

Date : 12/14/2009	Setting Refresh	O EVE	•		
Time	Camera	Туре	Event		
2009 12/14 00:00:24	07	EVENT	Motion		
2009 12/14 00:01:24	07	EVENT	Motion		
2009 12/14 00:02:24	07	EVENT	Motion		
2009 12/14 00:03:24	07	EVENT	Motion		
2009 12/14 00:04:24	07	EVENT	Motion		
2009 12/14 00:05:24	07	EVENT	Motion		
2009 12/14 00:06:24	07	EVENT	Motion		
2009 12/14 00:07:24	07	EVENT	Motion		
2009 12/14 00:08:24	07	EVENT	Motion		
First Previous	Next L	ast			

- 1. Click the Event Log from playback menu. The Event log viewer window will appear.
- 2. Click **Setting** to select the Date.
- 3. To filter the records, select and click the select button to display Event, System, Operation, Network or All.
- 4. Click Next, Previous, Frist, and Last button to go next, previous, first, or last page of event list.

2.4.1.3 To Search Using the Visual Search

Search from a specific camera by Date, Hour, Minute, and Second.

- 1. Click the Visual Search from playback menu. The Visual Search Setting window will show up.
- 2. In Visual Search Setting windows, select the date and camera and click OK.

		2	009/12			
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

 When a series of frames appear by date, click on the frame to display another series of frames and search by every Hour of that date, every Minute of that hour, every Second of that minute. To go back to last time selection, click
 Click < > to go to next or go back previous page in Hour, minute, and second select screen. To exit from the selected frame, click **Cancel**.



(SEB5116H series)

2.4.1.4 To Set a Video Segment and Save

Keep a portion of the recorded video. Following the below steps to Set and Save the Wanted Portion of the Recorded Video

- 1. While playback, right-click on playback screen and the A point of video segment is set.
- 2. Right-click on playback screen again to set B point of video segment.
- 3. The DVR system will start repeat playback the video segment that user has set until user cancel the video segment. Right-click on playback screen will cancel the video segment.
- 4. To save the video segment, left-click on playback screen to switch to single screen mode.
- 5. Plug in the USB storage device.
- 6. Click and select **Segment** from playback menu.

Save path	USB-1:U3	•	
File name	2009_12_14_0_0_2		Save
Туре	DVR Files (*.dvr)	•	Cancel

- 7. Click **Save** to output the video segment to USB storage device.
- Qplayer application will be included in output video segment folder for playback(see also <u>Chapter</u> <u>2.5</u>)

2.4.1.5 To Backup the Playback File

In the Backup Setting dialog box, the number from 00 to 23 represent the time in 24-hour clock. The CH1 to CH16 represent the camera number. When you back up the file, you may find Qplayer application included in the backup folder. User need to install the Qplayer on PC to playback. (see also <u>Chapter 2.5</u>)



SEB5108H series only has 8 channels will be available.

ackup	Se	ttiı	ng												H	5						1	
•				20	09/	/12											Fre	e S	pac	:e			
Sun.	Мо	n.	Tu			ed.	Т	hu.	F	ri.	5	iat.						0				٨	٨B
29	30		1		2		3		4	1		5				Re	equ	ire 0	Spa	ace		٨	AB
6	7		8		9		10)	1	1		12						0					
13	14		15		16		17		1			9		Re	sc	an I)ev	ice	l r	Bac	kur	No	w
20	21		22		23		2	4	2	5	1	26		_						Juc	tter s		
27	28		29		30		3	1	1			2		Sa	ve	Pat	h						
3	4		5		6		7		8	3		9		No	one								
Indu	de Di				hac	k								Fo	lde	r N	ame	e :					_
Inclu	de Pla	ayer	wn	en	Dac	кир									acku				_	_	_		_
CH 1~8														De	ICKU	ιÞ							
C	0001	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
CH 1																							
CH 2																							
CH 3																							
CH 4																							
CH 5																							
CH 6																					\vdash	\vdash	\square
CH 7															-			-	-		\vdash	\vdash	\vdash
CH 8															\vdash				\vdash		\vdash	\vdash	\vdash
ciro					70					0	-							L	ок	·		Ca	nce

- 1. Click **EE** > **Backup**.
- 2. Select the date of the recorded file in the calendar you want to backup. Use arrow buttons to shift the calendar to the left or right.
- In the table below, click on the green block to select the recorded file. The green block turns red when it is selected. The block that appears in white doesn't have data. To switch to another channel group, click drop-down box that located left side of bottom and select the channel group(CH1 – 8 / CH 9 – 16)
- Select the Save Path external USB storage device or DVD-ROM device. Click Rescan Device if system didn't detect any storage device.
- 5. Check the space needed for backup beside the calendar. If the backup file is excess the free space, the **Require Space** will be in red text. Click **Rescan Device** to calculate the space for backup.
 - Free Space: Show the available storage space
 - Require Space: Show the total size of the backup file.
- 6. DVR system will give **Folder Name** automatically. If user wants to change, right-click **Folder Name** column or click **i** to call out virtual keyboard to re-name the folder name.
- 7. Click **Backup Now** to start archiving the selected file.
- 8. When backup is 100% completed, click **OK** to end.

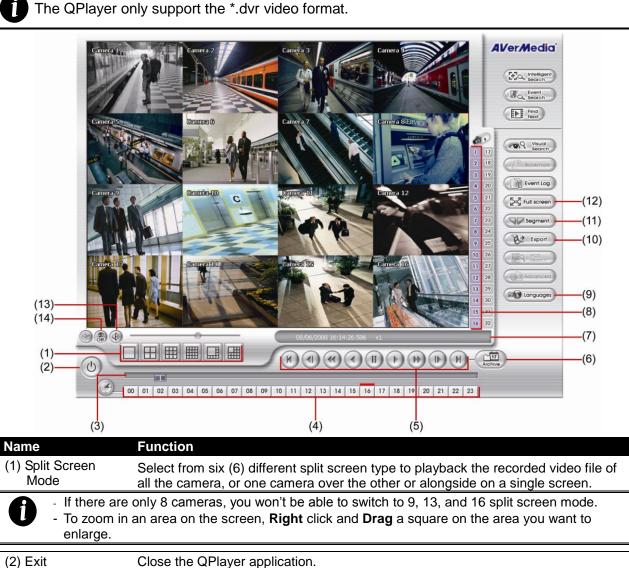
2.5 Playback Backup Video

(3)

(4)

You can playback the backup files and output video segment by 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 6 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.



E /(R	
Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
Hour Buttons	Select and click to playback the recorded video file on the specific time frame.

The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.

Name	Function
(5) Playback	From left to right order:
Control Buttons	Begin: Move at the beginning of the recorded video file.
	Previous: Go back to the previous frame.
	Slower: To reduce the playback speed. When each time press slower button, the speed will reduce 1/2 from original speed (32X, 16X, 8X, 4X, 2X, 1X, 1/2X, 1/4X, 1/2X, 1/4X, 1/2X, 1/4X, 1/2X)
	1/8X, 1/16X, 1/32X). Rewind: Wind back the recorded video file.
	Pause: Briefly stop playing the recorded video file.
	Play: To faster playback speed. When each time press faster button, the speed will double the playback speed (1/32X, 1/16X,1/8X, 1/4X, 1/2X, 1X, 2X, 4X, 8X, 16X, 32X).
	Faster: Play the recorded video file at the speed of 2x, 4x, 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: User can open the recorded file from certain location.
	 Channel 01~ 16 and Channel 17 ~ 32: Click the button to switch to different channel group of playback calendar.
	 Day Light Saving: Mark to display available playback records during day light
	saving period only.
represent the	s from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 e camera ID. The blue colored column indicates that there is a recorded video file on f time. While the red colored column indicates on where to start playing the recorded
(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	Switch to different UI tool tip language
(10) Export	Export includes Snapshot, Print, and Output function.
	 Snapshot: Capture and save the screen shot either in *.jpg format. Print: Drint the screen shot
	 Print: Print the screen shot. Output Video Clip: Save the segmented file in *.mpg, *.avi, *.dvr format.
(11) Segment	Keep a portion of the recorded video.
	Following the below steps 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 button \rightarrow Output 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.

Name	Function
(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.
	Full dependence of the series of the seri
	display one of the video in the multiple-screen mode or all.
(13) Audio	Enable/disable audio sound.
(14) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and select #2, if it captures lots of movement.

Chapter 3 Customizing the DVR System

In the Preview screen mode, click **button** to customize your DVR system. When the DVR setting menu appears, click the selection button that you want to configure.



3.1 System Setup

In the System Setting dialog box, there are 3 tabs – **System**, **Network**, and **User**. Click the tab to configure it.

3.1.1 System Setup

Part I

Click **Next** to go to next setup page, click **OK** to accept the new settings, click **Cancel** to exit without save. Click or right-click on selected column to call out virtual keyboard for entering value in necessary columns.

Server Name			Audio Setup		
Server Name			🗌 Audio Mute		
Miscellaneous			Configuration		
Video Format	NTSC	•	Configuration	Import	Export
Date Format	yyyy/mm/dd	•	1		
AutoScan Period	none	-	Firmware		
Language	English	-	DVR Version	3051	Update
Control Bar Position	0	•	Playback		
Login			Playback Mode	Play the last	file 🔻
Auto login when (OS start		Deinterlace Mode	OFF	•
Auto record when	n login		Touch Panel Cali	oration	
Auto start NetWo	ork when login		Status		Start

(1) Server Name

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

(2) Miscellaneous

- Video Format: display the video system according to your camera video system. If the video system setting is wrong, the video would appear abnormal.
- Date Format: Select the date format which wants to display in preview and playback mode
- **AutoScan 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.
- **Language:** Customize the system to display the tool tips and dialogs based on the selected language. Default language is in English.
- **Control Bar Position:** To adjust the position of control bar on the preview UI. The higher value the control bar position is higher.

(3) Login

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

- **Auto login when OS start:** Automatically login to DVR system when DVR system is executed.
- **Auto record when login:** Automatically start video recording when the DVR system is executed.

(4) Audio Setup

Audio Mute: Enable/disable audio output at preview mode.

(5) 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**.

(6) Firmware

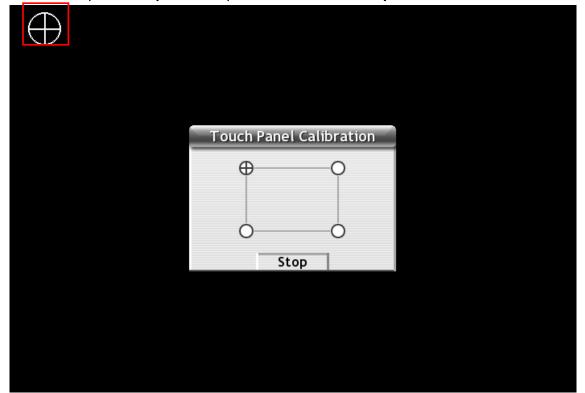
Upgrading the firmware of DVR system. Please contact your dealer for firmware upgrading.

(7) Playback

- 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
- **Deinterlace Mode:** To enhance the video quality. Set the de-interlace mode to **#1**, if you are capturing motionless picture and select **#2**, if it captures lots of movement. To disable the de-interlace function, select **off**.

(8) Touch Panel Calibration: Adjust the touching accuracy of the touch monitor.

Click **Start** to enter the adjusting interface. Follow the on screen direction and using the mouse to click the calibrate point to adjust. To stop the calibrate, click **Stop**.



Part II

Click **Next** to go to next setup page, click **Back** can go back previous setup page. Click **OK** to accept the new settings, click **Cancel** to exit without saving.

	System Setting System Network User
(1)—	Storage Model Name Free Space Total Space Status SATA-0:HDT721025SLA330 33830MB 225513MB OK OverWrite Enable Record Limit O Days
	Refresh Format Calculate
(2)—	DLS Start Time: January V / Last Sunday / 0 V
	End Time: January / Last Sunday / 0 Time offset 00 hour
(3)—	Time System time 12/14/2009 10:18:52 Setting
	📼 Back OK Cancel

(1) Storage

Display the recorded video save path. User can format the hard disk and calculate the approximately capacity of hard disk for recording.

- Format: To format the hard disk.

Before starting hard disk format, please stop all operations on the DVR server.

- 1. Click **Refresh** to get the current storage path list.
- 2. Select the storage path and click **Format** button.
- 3. When hard disk format is done, click **OK** to finish.
- 4. In System Setting window, click **Refresh** to re-detect the hard disk.

Formatting HDD	_	
	3 %	Cancel

 Calculate: To calculate the capacity of hard disk for recording, click Calculate. And then, fill in the hard disk capacity in Expected HD Size (GB) or enter the expected record days in Expected Recording time (Days), and then, click Calculate to start calculation. To reset the entered value, click Clear. The result will be shown in Total Record Time (Days) column. To exit, click OK.

Total Record Time	(Days): 3.3
HDD Calculator	
Expected HD Size(GB)	Clear
Expected Recording time(Days)	Calculat

- **Overwrite Enable:** When there is not enough free space to record one hour data, the system automatically replaces the oldest data.
- **Record Limit Days:** If you want the system to automatically erase the data after a certain days, enable the **Record Limit** check box and enter the numbers of days in **Days** text box.

(2) DSL

Mark **Day Light Saving** check box to enable daylight saving. And then, select the **Start** and **End Time** by click **Setting**.

- **Time Offset:** 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.

(3) Time

Adjust the DVR system time and date. Click **Setting** to select the month, date, hour, and minute. Click on **Year** and **Month** can bring up the spin control window for selecting year and month. When it is done, click **OK** to save.

Mo	e odel Na	me	Free S	pace	Total S	pace S	Status			
	721025SLA3		33630MB		225513MB		ок	🗸 0v	erWrite Er	able
								Re	cord Limit	0 Days
			Keti	resh i	Forma	t (Calo	culate			
			_				- 1			
_	S	ystem	Time	Setti	ng	_				
•		2	009/12							
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	day	/	/ 0	•
29	30	1	2	3	4	5	day	/	/ 0	•
6	7	8	9	10	11	12				
13	14	15 22	16	17	18	19 26				
20 27	21 28	22	23 30	24 31	25	20				
21	4	5	6	7	8	9				

3.1.2 Network Setup

Setup system network parameters. Click **OK** to save the configuration, click **Cancel** to exit without save. Click **Example** to call out virtual keyboard for entering value in necessary columns.

	in Select Cameras, SEB	5108H series only has 8 channels will be available.	
	System Setting	System Network User	
(1)—	Transmitting Camer	ras V V V V D D D D D D D D D D	
(2)—	Network Type	Static IP O DHCP O PPPOE	
(3)—	Network		
· · /	IP	192.168.222.225 PPPOE ID	-(5)
	Mask	255. 255. 255. 000 PPPOE Password	
	Gateway	192.168.000.254 UPNP Port	-(6)
	DNS	168.095.001.001 UPNP Port 8080	
	Server Port	80 Talk to Web-Client	-(7)
	ISP Port	5005	(-)
(4)—	Other		
(•)	Dynamic DNS	Detail	
	Network Video Confi	iguration Detail	
	Network Time Synchi		
		🗐 🗐 OK Cancel	

(1) Transmitting Cameras

Mark the camera number check box that user wants to make it accessible via internet using WebViewer, Remote Console, PDAViewer and HandyViewer (still image).

(2) Network Type

Select the type of network that user wants to use.

- Static IP: Assigns an fixed IP address for the DVR system.
- **DHCP:** Assign an IP address to DVR system by local DHCP server.
- 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.

(3) Network

When user selects **Static IP** as a network type, please fill in the following information to make network works.

- 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.
- Server Port: Fill in the port number that is using for WebViewer connection. Default is 80.

- **ISP Port:** Fill in the port number that is using for remote updating firmware. Default is 5005.
- (4) Other

- Dynamic DNS: 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>). Click Detail to configure the DDNS function.
 - DDNS Server Name: Select your DDNS server. The default only has one DDNS server now. It may provide more DDNS in future.
 - > **DDNS 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	ddns.avers.com.tw
DDNS	Domain Name	
Pass	word	

 Network Video Configuration: Configure the video parameters for IE client viewer or remote application viewer such WebViewer or Remote Console. These configurations are for the video quality in normal status.

User can select the video quality by channel on remote site application. Right-click on channe
screen of remote application and select high or normal.

1	2	3	4	5	6	2 7	8	9	10	11	12	13	14	15	16
Se	elect	All													
Tota	al Fra	me Ra	ate(Cl	F)		120	3	Surplu	ıs Fra	ame	Rate(CIF)		113	2
Para	mete	ər													
Reso	lutior	٦			(🔿 D1	0	HD1	•	CIF					
Max	Fram	e Rat	е			0-			1						
Vide	o Qua	ality				0-			5						

- > Select Camera: select the camera or mark Select All to select all cameras.
- Total Frame Rate (CIF): Display the total frame rate. In NTSC video type, the total frame rate is 120. In PAL, the total frame rate is 100.
- Surplus Frame Rate (CIF): Display the frame rate hasn't been used. Surplus frame rate plus Max Frame Rate will equal to Total Frame Rate.
- > **Resolution:** Select the video resolution type D1, HD1, or CIF.

- Max Frame Rate: Set the maximum frame rate when transmitting the frame rate to the remote site. The maximum frame value always less or equal to the max frame rate of Recording setting (please refer to <u>Chapter 3.3</u> for max frame rate value).
- Video Quality: Adjust the video quality. The higher the value, the lower the compression level and uses more hard disk space.
- Network Time Synchronization: Adjust the DVR system time according to network time server. Click Detail to configure the NTP function. In NTP window, fill in the IP address or domain name in Time Server column and select the Time Zone. And then, clicks SYNC. button to start adjust system time from network server.

NTP	_	_
Time Server		
Time Zone	GMT-12:00	▼]
	SYNC.	
	 	1
	OK	Cancel

(5) PPPOE ID and PPPOE Password

Fill the **PPPOE ID** and **PPPOE Password** that provides from your ISP for PPPOE connection authentication.

(6) UPNP Port

Enable UPnP function to automatically configure the port setting on the local network. This function is available when there is UPNP device in the same network. It will write the DVR port information into the router or other network device Enter the **UPNP Port** of the DVR.

(7) Talk to Web-Client

The **Talk to Web-Client** is to use the 2-Way Talk feature that allows the client and server to talk via internet using microphone. Make sure both microphone and speakers work before using this feature.

3.1.3 User Setup

User can create user accounts in different authority. Click **Add** to create a new user account. Click **Cancel** to exit without save. To modify the user account, select the account and click **Edit**. If user wants to remove the user account, select the account and click **Delete**.

System Setting		System Network	User
Level	Name	Description	
Administrator	Admin		
User	1		
Add Edit	Delete		
	_		ance

To create a user account:

Click **User** tab from System setting interface. User should see the following setup windows. Refer the following explanation to create a user account. Click **Imm** or right-click on the column to call out virtual keyboard for entering value in necessary columns. Click **OK** to save and exit the setup windows, click **Cancel** to exit without save.

Authorization I	evel	Control Right		
🖲 User	O Administrator	System Setting		
User & Passwo	ord	Camera Setting		
Name	User	Record Parameter Setting		
Description		Schedule Setting		
Password		BackUp		
Password Confi	rm	Alarm Setting		
WebViewer		Status		
Remote Con	sole	V Playback		
Remote Rec	ord	Reboot		
Remote Log	/iewer	Power Off		
Remote Setu	ıp	Visible Camera Detail		

(1) Authorization Level

Select the user account level that user wants to create.

(2) User & Password

- **Name:** Enter a name for the account.
- **Description:** Enter a short description for the account.
- **Password:** Assign a password for login authentication.
- **Password Confirm:** Re-enter the password again for confirmation.

(3) WebViewer

Select the control right of remote accessing.

- **Remote Console:** Allow user to using remote access DVR system via Remote Console application.
- Remote Record: Allow user to operate recording from remote site.
- **Remote LogViewer:** Allow user to view event logs from remote site.
- **Remote Setup:** Allow user to configure DVR system from remote site.

(4) Control Right

Select the control rights on the DVR system that allow user to execute selected operations on DVR system.

- System Setting/Camera Setting/Record Parameter Setting/Schedule Setting/Alarm Setting

Allow user to configure System, Camera, Recording, Schedule, and Alarm setting.

- Backup

Allow user to backup the recorded video files.

- Status

Allow user to view the system status information.

- Playback

Allow user to playback the recorded video files.

- Reboot

Allow user to restart up the DVR system.

- Power Off

Allow user to shutdown the DVR system.

- 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.

8
16

3.2 Camera Setup

User can configure camera, motion mask, and PTZ camera parameters in this section.

3.2.1 Camera Setting

Click **c** to call out virtual keyboard for entering value in necessary columns. Click **OK** to save and exit the setup window, click **Cancel** to exit without save.

In S	elect Cameras, SEB	5108H series o	nly has 8 chanr	nels will be a	vailable.		
	Camera Setting	;		Camera	Mask	PTZ	
(1)——	Select Camera						
			8 9 10			5 16	
	Select All						
	🔽 Preview display						
(2)——			1	Camera Na	me		
(-)	Brightness	~		CH 01			— (3)
	Contrast	_0	136				(
		-0	128	74 E			— (4)
	Hue	0	128	- With		CE	
	Saturation		120		2		
	-	_0	134				
		7/10/1		ок	Cancel	Default	

(1) Select Camera

Select the camera number you want to configure. To select all cameras, mark Select All check box.

Preview display: Enable/disable the previewing of selected camera on surveillance screen.
 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.

(2) Video Adjust

Adjust the brightness, contrast, hue, and color of the camera.

(3) Camera Name

Enter the name of camera. Maximum is 10 characters.

(4) Preview screen

The selected camera video will be display in here.

3.2.2 Motion and Mask Setting

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

In	Select Cameras, SEB5108H series only has 8 channels will be available.
	Camera Setting Camera Mask PTZ
	Select Camera
(1)—	Image: 1 Image: 2 Image: 3 Image: 4 Image: 5 Image: 6 Image: 7 Image: 8 Image: 6 Image: 7 Image: 7 <thimage: 7<="" th=""> <thimage: 7<="" th=""> I</thimage:></thimage:>
	Select All
(2)—	Motion Mask
	Enable
	Sensitivity 90 Motion Mask
(3)—	Video Shield
(-)	Video Shield Enable Video Shield
(4)—	Video Mask
. /	Video Mask Enable Video Mask
	OK Cancel Default

(1) Select Camera

Select the camera number you want to configure. To select all cameras, mark Select All check box.

(2) Motion Mask

Enable/disable the motion detection and motion mask setup.

- Enable: Enable/disable motion detection.
- **Sensitivity:** Set the sensitivity level of motion detector. The higher the value, the finer the sensitivity is detected.
- Motion Mask: Mark an area on the screen to disregards the motion detects in the marked area and to only detects motion outside the marked area. Use the mouse drag from up to down to select a motion mask area. To un-select the mask area, drag from down to up. Also, user can click block one by one to select and un-select the mask area.

(3) Video Shield

Video shield covers an area on the screen and the covered area would not be visible on the screen and recorded.

- Video Shield Enable: Enable/disable video shield function.
- Video Shield: To select an area for video shield. Use the mouse drag from up to down to select a video cover area. To un-select the cover area, drag from down to up. Also, user can click block one by one to select and un-select the cover area.

(4) Video Mask

Mark an area on the screen to disregards the monitor in the marked area and to only monitor outside the marked area.

- Video Mask Enable: Enable/disable video shield function.
- Video Mask: To select an area for video mask. Use the mouse drag from up to down to

select a video cover area. To un-select the cover area, drag from down to up. Also, user can click block one by one to select and un-select the cover area.

3.2.3 PTZ Camera Setting

Configure PTZ camera parameters and preset position. Click **OK** to save the setting, click **Cancel** to exit without save. When PTZ camera is set, user can control PTZ camera through PTZ control panel on preview and playback mode (see also <u>Chapter 2.3.1.1 Using PTZ Control Panel</u>).

0	In Select Cameras, SI	B5108H series on	ly has 8 cha	nnels will be a	available.	
	Camera Setting		10	Camera	Mask	РТΖ
(1)	Select Camera					
(1)—			9 10	11 12 13	14 15	16
(2)—	Connection Settin	igs	1			
()	Use PTZ					
	Com Port	RS-485	•	- 1		(4)
	ID	0	•			1
	Baud Rate	2400	•			
	Protocol Pelo	o-D	•			
(0)	Preset Settings					
(3)—	Preset Number	1	•		QQ	
	DwellTime	1	•		BE S	(5)
	Restore AutoPa	n Time: 1	Sec .			
			1		ок с	ancel

(1) Select Camera

Select the camera number that is a PTZ camera to configure.

(2) PTZ Setting

- Use PTZ: Enable/disable the PTZ camera function.
- **Com Port:** Select the com port that is connect with DVR system.
- **ID:** select the ID number for the camera.
- Baud Rate: Select the baud rate of com port which is connect with DVR system.
- Protocol: Select the protocol of PTZ camera. Please refer to your PTZ camera user's manual.

(3) Preset Setting

- Preset Number: Set a camera lens to a position that user is defined. Select the Preset number and using (5) PTZ control panel to adjust the camera lens to the wanted position.
 Repeat to set reset of preset position.
- **Dwell Time:** Set a time for how long the PTZ camera stays in that position before it moves to the next one.
- **Restore AutoPan Time:** Set a time period for restoring auto path function after the PTZ camera has been moved. Mark the **Restore AutoPan Time** check box and select the time period in second.

(4) Preview Screen

Display the video of selected PTZ camera.

(5) PTZ Control Panel

To control PTZ camera lens to move up, down, left, right, zoom in/out, focus in/out, and speed up/down when setup up preset position.

3.3 Recording Setup

	Record Setup	E.
	Select Camera	
1)—		Image: Weight of the state Image: Weight of the state <th< td=""></th<>
	Select All	✓ Audio Record
2)—	Total Frame Rate(CIF)	480 Surplus Frame Rate(CIF) 0
3)—	Parameter	
	Resolution	◯ D1 ◯ HD1 ⊙ CIF
	Max Frame Rate	Q 30
	Min Frame Rate	·O 1
	Video Quality	95
	Sensor Trigger	01 Vot Installed
	Pre Record Time	0 Sec
	After Record Time	5 Sec

(1) Camera Icons

Select the camera number you want to set the recording setting. To select all the cameras, mark the **Select 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.

- Audio Record: Enable/disable to record audio while recording.

(2) Total Frame Rate & Surplus Frame Rate

- Total Frame Rate value is depending on the video system that is using.
- **Surplus Frame Rate** value is related to record mode and frame rate of channel that has setup.

(3) Recording Parameter

- Resolution: click the radio button (☉) button to select the record mode D1, CIF, or HD1. Under D1 mode, the video recording is in full screen resolution. Each channel is recorded only at a maximum frame rate. Whereas in CIF mode, video recording is at a lower resolution. In HD1 mode, total recording frame is 60/50fps (NTSC/PAL). User can switch to view the video in full screen or QUAD screen.
- **Max Frame Rate:** Set the maximum number of frames to be recorded in Smart recording mode. The higher the frame rate, it uses more hard disk space.



The minimum value of max frame rate is 2.

- **Min Frame Rate:** Set the minimum number of frames to be recorded during motion and motionless state. The higher the frame rate, it uses more hard disk space.
- Video Quality: Adjust the video quality. The higher the value, the lower the compression level and uses more hard disk space.

- Sensor Trigger: Customize the initial state of the attached sensor.

Condition	Description
NOT INSTALLED	Indicates that there is no sensor connected
NORMAL OPEN	Indicates that the initial state of the sensor is normal open. Video recording initiates when there is a changes in the sensor state
NORMAL CLOSE	Indicates that the initial state of the sensor is normal close. Video recording initiates when there is a changes in the sensor state

- **Pre Record Time:** set the time in second for the DVR system to pre-recording before the alarm happen.
- After Record Time: set the time in second for the DVR system to continue recording after the alarm has ended.

3.4 Schedule Setting

Setup system schedule, record schedule, and holiday schedule for DVR system.

3.4.1 Setup System Schedule

Schedule to record, disable 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. Purple color represent weekly schedule, blue color is one time schedule, and white color is no schedule at all.

S	Schedu	ule Se	tting					System	Record	Holiday
			2	009/12			•			
	Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Recor	d	
	29	30	1	2	3	4	5		Weekly	
	6	7	8	9	10	11	12			
	13	14	15	16	17	18	19		One Time	
	20	21	22	23	24	25	26		None	
	27	28	29	30	31	1	2		None	
	3	4	5	6	7	8	9			
		_								
		00 01 0	2 03 04	4 05 06	07 08	09 10	11 12 13	8 14 15 16	17 18 19 20 2	21 22 23
	Sun.	\rightarrow	++	++			-++	++++	\rightarrow	
	Mon.	\rightarrow	++	++			\rightarrow	+ $+$ $+$ $+$ $+$	-++++	
	Tue.	++	++	++				+ + + +	_	
	Wed.		+ +	+ $+$				+ $+$ $+$ $+$	_	
	Thu.	\rightarrow	+ $+$	++				+ $+$ $+$ $+$		
	Fri.	++	++	++			-++	+ $+$ $+$ $+$		
	Sat.									
	All	Cle	ear 🛛	Save						
									ОК	Cancel

To Set the System Schedule:

- 1. Click > Schedule > System tab.
- 2. Select the date in the calendar. Use arrow button to shift the calendar to the left or right.
- 3. 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 schedule.

- Reboot

Restart the PC at the appointed time.

- Disable Network
- Deny remote access to the DVR system at the setup time period. 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.

- Disable Alarm

Deactivate the alarm at the set time temporarily.

- 4. Set the schedule it as weekly or one time. Click \odot to make a selection.
 - Weekly: To record at selected date and hours in every week.
 - **One Time:** To record at selected date and hours only one time.

- None: No any recording at all.
- 5. Click on the blocks to set the schedule or click All to select all. To un-select the specific schedule blocks, click the **None** and click blocks to un-select. Click **Clear** will un-select all schedule block.
- 6. To store the setting, click Save.
- 7. To end Schedule Setting, click **OK** to exit and accept the setting and **Cancel** to exit.

3.4.2 Setup Recording Schedule

To setup recording schedule based on date, time, and record modes.

Recording schedule must set in order to record. In Select Cameras, SEB5108H series only has 8 channels will be available. Schedule Setting Holiday System Record Select Camera 0 2 10 12 13 8 9 11 Select All Always Record O None O Sensor Record O Motion Record O Smart Record 00 01 02 03 04 05 06 07 09 10 11 12 13 14 15 16 08 Sun. Mon. Tue. Wed. Thu. Fri. Clear OK Cancel

To Set the Recording Schedule:

- 1. Click **Schedule** > **Record** tab.
- 2. Select the camera or mark **Select All** to select all cameras.
- 3. Mark Audio Enable if user wants to record audio.
- 4. Select the record mode. Click ⊙ to make a selection.
 - **Always Record**

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

Motion Record

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 Pre Record Time and After Record Time settings.

Sensor Record

Start recording the video from the selected camera only when the sensor has been triggered. Once a sensor is triggered, the system automatically saves the previous frames and stop based on the Pre Record Time and After Record Time settings.

- Smart Record

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. Set the maximum frame rate setting in <u>Chapter 3.3 Recording Setup</u>.

- None

The system won't do any recording.

- After select the record mode, click the specific schedule block or click All to select all. To un-select the specific schedule blocks, select None and click blocks to un-select. Click Clear will un-select all schedule block.
- 6. To store the setting, click **Save**.
- 7. To end setting, click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

3.4.3 Setup Holiday Schedule

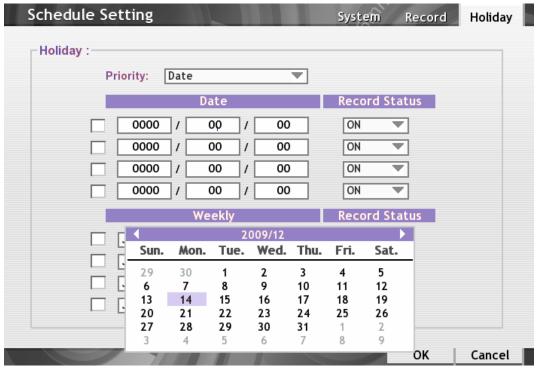
Setup record status for the specific holiday.

Schedule Setting	System Record	Holiday
Holiday :		
Priority: Date 💌		
Date	Record Status	
0000 / 00 / 00	ON 💌	
0000 / 00 / 00	ON 🔻	
0000 / 00 / 00	ON 💌	
0000 / 00 / 00	ON 💌	
Weekly	Record Status	
Jan 🔻 / 1th 💌 / Sun 💌	ON 💌	
Jan 🔻 / 1th 💌 / Sun 💌	ON 💌	
Jan 🔻 / 1th 💌 / Sun 💌	ON 💌	
Jan 🔻 / 1th 💌 / Sun 💌	ON 💌	
	ОК	Cancel

To Set the Recording Schedule:

- 1. Click > Schedule > Holiday tab.
- 2. Select the **Priority** of holiday schedule. If the schedule has a conflict, system will follow the priority that user has choice.
 - **Date:** the specific date that user has setup will be the first priority if the schedule has a conflict.
 - Weekly: the selected week time will be the first priority if the schedule has a conflict.
- 3. To set a specific date, mark the check box and click the year, month or date column to select the date and select the **Record Status** (ON/OFF). **ON** means the DVR system will record on the holiday that has been set. **OFF** means the DVR system will not record on the holiday that has been set.

4. To select a week for recording schedule, mark the check box and select the month, date, and week. And then, select the **Record Status** (ON/OFF). **ON** means the DVR system will record on the holiday that has been set. **OFF** means the DVR system will not record on the holiday that has been set.



5. To end setting, click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

3.5 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 16 represent the camera number. When you back up the file, you may find Qplayer application included in the backup folder. User need to install the Qplayer on PC to playback (see also <u>Chapter 2.5</u>).



SEB5108H series only has 8 channels will be available.

					20	09/	/12											Fre	e S	рас	:e			
Sun.		Noi	n.	Tu	e.	We	ed.	T	hu.	F	ri.	S	iat.				D		0	6			٨	AB
29		30		1		2		3		4	Ļ		5		-		Re	equ	ire 0	Spa	ace		٨	AB
6		7		8		9		10)	1	1	1	2		-									
13		14		15		16		17	7	18	8	1	9		Re	sca	an I)ev	ice	I B	Bac	kup) No	w
20		21		22		23		24	-	2	5		6			ve				<u> </u>				
27		28		29		30		31		1			2		_									_
3		4		5		6		7		8			9		N	one								
Inclu	ıde	Pla	ver	wh	en	bac	kup								Fo	lde	r N	ame	::					
		_													D a	- de								_
		- 12													Do	ιckι	ıb –							
CH 1~8	_		_	_	_	_	_	_	_	_	_	_	_		<u> </u>		_	_		_	_	_	_	_
	_	01	02	03	04	05	06	07	08	09	10	11	12	13	<u> </u>		_	17	18	19	20	21	22	23
СН 1	_	01	02	03	04	05	06	07	08	09	10	11	12	13	<u> </u>		_	17	18	19	20	21	22	23
CH 1 CH 2	_	01	02	03	04	05	06	07	08	09	10	11	12	13	<u> </u>		_	17	18	19	20	21	22	23
CH 1 CH 2 CH 3	_	01	02	03	04	05	06	07	08	09	10	11	12	13	<u> </u>		_	17	18	19	20	21	22	23
CH 1 CH 2 CH 3 CH 4	_	01	02	03	04	05	06	07	08	09	10	11	12	13	<u> </u>		_	17	18	19	20	21	22	23
CH 1 CH 2 CH 3	_	01	02	03	04	05	06	07	08	09	10	11	12	13	<u> </u>		_	17	18	19	20	21	22	2.3
CH 1 CH 2 CH 3 CH 4	_	01	02	03	04	05	06	07	08	09	10	11	12	13	<u> </u>		_	17	18	19	20	21	22	23
CH 1 CH 2 CH 3 CH 4 CH 5	_	01	02	03	04	05	06	07	08	09	10	11	12	13	<u> </u>		_	17	18	19	20	21	22	23

- 1. Click **Backup**.
- 2. Select the date of the recorded file in the calendar you want to backup. Use arrow buttons to shift the calendar to the left or right.
- In the table below, click on the green block to select the recorded file. The blue block turns purple when it is selected. The block that appears in white doesn't have data. To switch to another channel group, click drop-down box that located left side of bottom and select the channel group(CH1 – 8 / CH 9 – 16)
- Select the Save Path external USB storage device or DVD-ROM device. Click Rescan Device if system didn't detect any storage device.
- 5. Check the space needed for backup beside the calendar. If the backup file is excess the free space, the **Require Space** will be in red text. Click **Rescan Device** to calculate the space for backup.
 - Free Space: Show the available storage space
 - Require Space: Show the total size of the backup file.
- 6. DVR system will give **Folder Name** automatically. If user wants to change, right-click **Folder Name** column or click **to** call out virtual keyboard to re-name the folder name.
- 7. Mark **Include Player when backup** option that the system will include a playback application into the backup folder. User can use it to playback without any playback application download or

installation.

- 8. Click **Backup Now** to start archiving the selected file.
- 9. When backup is 100% completed, click **OK** to end.

3.6 Alarm Setting

In the Alarm Setting windows, click **Add** to create and set new alarm setting, click **Delete** to remove the selected alarm setting, **Edit** to modify exist alarm setting, click **OK** to exit and save the setting, **Cancel** to exit without saving.

No: 1	Name: Alarm 1	Description:		
No	Name	Description		

To set the Alarm Setting:

1. Click **Sec. > Alarm**.

Ð

2. Click Add to create new alarm setting.

SEB5108H series only has 8 channels will be available.

Condition Setting

00 01 02 03 04 0	5 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
 Trigger if Any 	O Trigger if All
Camera	
Motion	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16
Video Loss	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16
Sensor	
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
Alarm Reset	
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

- 3. In **Enable Time**, the number from 00 to 23 represent the time in 24-hour clock. Click the time that user want to activate or deactivate the alarm function.
- 4. Select **Trigger Any** to activate if it falls to one of the conditions or **Trigger All** to activate if it falls to all conditions.
- 5. Set condition of **Camera**.
 - Motion: Click on the camera number to set the condition for the system to alarm.
 - Video Loss: Click the camera number to set the alarm condition when video is lost.
- 6. Set condition of **Sensor**. 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.
- 7. Set condition of **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.
- 8. Click **Next** to setup actions of alarm.

Action Catting			
Action Setting			
\checkmark	Spot Monitor	Detail	
	Enlarge Camera View	Detail	
	Relay Output	Detail	
	Play Warning Sound	Detail	
	Send E-Mail	Detail	
	FTP	Detail	
	Start Recording	Detail	
	SMS	Detail	
	PTZ Preset point	Detail	
	Alarm SOP	Detail	
	Send to CMS	Detail	
	Snapshot	Detail	

- Spot Monitor

To display alarm video on spot monitor when there is an alarm event occurred.

- a. Select the camera from drop down list to specify which camera alarm video to be display on sport when the alarm is occurred.
 - Alarm Camera: when there has an alarm occurred, and then, the alarm video will be display on the spot monitor.
 - **Camera # (1~16):** Only selected channel has alarm event occurred, the alarm video will display on the spot monitor.
- b. Retrieve time: set the waiting duration for switching to next alarm video.

Alarm Camera		
Aldrin Califera		
Retrieve Time	_	 3 Sec

- 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.
 - Alarm Camera: when a channel has an alarm occurred, and then, the channel video that has an alarm occurred will be enlarged on screen.
 - **Camera # (1~16):** the selected channel video that will be enlarged on screen when an alarm is activated.
- 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.

inlarge Camera Seti	ά		_
Alarm Camera	V		
Retrieve Time	O		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. In the Alarm Relay dialog box, mark from the available relay list; set to enable/disable the relay operation when the alarm is activated. Set the **Retrieve time**, you may to extend the relay operation time and set the duration in second. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

Relay Trigger				
01 02	03	04		
Retrieve Time	_		3	Sec

- Play Warning Sound

Play alarm sound. Set the time duration in seconds.

Setup	_	_	
Buzzer			
Buzzer Warning Time	_		3 Sec
		ОК	Cancel

- Send E-mail

Send an electronic text message.

Mail Server	
SMTP	25
Authentication	
ID 🛛	
Password	
Mail	
From:	
to:	
CC:	
Subject	
	Test
E-Mail Notice Setting	
Notice Interval	1 Minute
Attach image channel	01

> 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**.

> Mail

To check if it is working, click **Test** button.

From: Enter the sender e-mail address.

To: Enter the recipient email address and separate it with comma or a semicolon. **CC:** Enter the email address of recipient that needs to be informed and separate it with comma or semicolon.

Subject: Enter the message title.

Message: Type the message in blank box. Maximum message line is 4 lines.

Email Notice Setting

- ✓ **Notice Interval:** Set the period of time before it sends another e-mail notice.
- Attach image channel: When the alarm occurred, the system will capture the image of the selected channel and send the image to the certain e-mail address with the alarm message.

- FTP Setup

- 1. In the FTP Setting dialog box, enter the FTP Server(IP address), Port, ID and Password.
- 2. In **Upload image when sensor is triggered** option, select the camera that the images will be capture and send when the sensor is triggered.
- 3. Click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.

FTP Setting			
FTP Server			
Port	0		
ID			
Password			
Upload image whe	n sensor is tri	ggered	
	01		

- Start Recording

Record the video from the selected camera.

- 1. Select the camera to enable/disable video recording. Enable All to select all cameras.
- 2. In the Frame Rate selection, select **As Setting** to record the number of frames based on the Recording Setting or **Max** to record the maximum of frames based on the available speed.
- 3. In the **Start Recording prior** text box, mark and set the number in second for the DVR system to pre-recording before the alarm happen.
- 4. In the **Stop Recording after** text box, mark and set the number in second for the DVR system to continue recording after the alarm has ended. If user doesn't mark and set the time, the alarm recording will continue recording until alarm is reset.
- In Select Cameras, SEB5108H series only has 8 channels will be available.

Recording Cameras				
All				
1 2 3	4 5	6	7	8
9 10 11	12 13	14	15	16
Frame Rate				
As Setting	O MAX			
Start Record Prior	0	92	0	Sec
Stop Record After		-	0	Sec

- PTZ Preset Point

Position the PTZ camera based on the preset point setting.

- 1. Next to the PTZ preset point check box, click Detail.
- 2. In the Alarm PTZ window, select the PTZ camera number in **Select Camera**. And then, mark the **Enable** check box.
- 3. In **Alarm Trigger** and **Alarm Close**, select the position of the PTZ camera when the alarm is activated and ended. For the PTZ camera ended point, user also can select one preset position or **Auto Path** between preset position groups.

SEB5108H series only has 8 channels will be available.

Select Camera		01			✓ □ E	nable	
Preset N	lumber -						
Alarm Tr	igger						
① 1	O 2	O 3	O 4	05	06	07	08
09	O 10	O 11	O 12	O 13	O 14	O 15	O 16
Alarm Cl	ose						
O 1	O 2	O 3	O 4	05	06	07	08
09	O 10	O 11	O 12	O 13	O 14	O 15	0 16
AutoPa	an						
<u> </u>	4		5 -	8			
9 -	12		13	- 16			

- Alarm SOP

Define the Standard Operation Procedure that SOP dialog will appear when alarm is occurred.

Step 1	Active	2 	

- Send to CMS (Central Management System) Enable/disable the selected camera to send video to CMS when the alarm is activated.

SEB5108H series only has 8 channels will be available.

ransmit	ting Can	neras					
1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

3.7 System Status Viewing

User can check DVR system status by select **Status** from setup menu. Click **Detail** button can view the remote accessing information.

	System	era Record Schedule
	Backup	
Status		
Network		System
IP Mode	static	Server Name
IP Address	192.168.0.1	DVR Version A9.03.14.00.01
Status	Detail	MAC 00:00:00:51:82
Record		Device
Channel	1 💌	Model Name Free Space Total Space Status
Record	OFF	SATA-0:HDT721025SLA 33630MB 225513MB OK
Audio	On	
Mode	CIF	
Frame Rate	30	
Quality	95	
File Size	88 KB/s	
Total Framerate	480	
Total File Size	1340 KB/s	

Chapter 4 Using the USB Playback Console

4.1 Recommended system requirements

- Pentium®4 2.4GHZ or above
- Windows®2000/ XP/Vista/7
- 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:

 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

hoose S	etup Language	×
R	Select the language for this in the choices below.	nstallation from
	English	
	ОК	Cancel

- 3. Click **OK** to install the application
- 4. Click **Exit** to close the installation main screen.
- 5. You may now connect the external USB storage device that has saved recorded files to PC.

4.3 Running the USB Playback Console

(17) Eq. intelligent search (16) Bo, Search (15) Find Next (14) đĩ. Pon 9 Visual Search (13) C Eull screen (12) Seamer (11) Be Export (10) 6 -(9) RO Languages (18) (19) (8) (7) (1)-(2)-(6) 0 C 19 20 21 22 23 10 11 12 13 14 15 16 17 (4) (3) (5)

Name	Function
(1) Split Screen Mode	Select from different screen view to playback the recorded video file of the entire camera or one camera on screen.
(2) Exit	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 button	Select and click to playback the recorded video file on the specific time frame.
(5) Playback Controller	From left to right order:
	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, 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, 8x, 16x, or 32x.
	Next: Go to the next frame by frame.
	End: Go to the end of the recorded video file.

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

Name	Function
(6) Archive	To select the video file source for playing.
	Select File Type
	File Type for Playback
	ODVR Recorded File (HD)
	OBackup File (.dvr)
	Backup 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 also <u>Chapter</u> <u>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 (SEB series don't support *.avf file format).
(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	To switch DVR application UI language.
(10) Adv. Function	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>) AVF to AVI: save *.avf file format as *.avi file format (SEB series don't support *.avf file format).
(11) 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: Save the segmented file in *.avi format
(12) Segment	Keep a portion of the recorded video (see also Chapter 4.3.1)
(13) 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.
(14) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second(see also <u>Chapter 4.3.5</u>)
(15) 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.
(16) Event Search	Search from the recorded activities that take place in the system (i.e., Sensor, Motion, Video Loss, POS)(see also <u>Chapter 4.3.6</u>)
(17) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 4.3.7)
(4.0) 0	Turn on and off the sound
(18) Sound /Sound bar	Increase and decrease the volume
(19) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and select #2, if it captures lots of movement.

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 **Output** button to save the wanted portion.

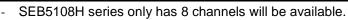
4. In the **Save As** dialog box, locate on where user wants to save the file, type the filename, and select the video format.

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 Archive button
- 3. Select **DVR Recorded File(HD)** and click **OK**.
- 4. Select the hard disk drive from **Select Disk** window and click **OK**.

HDD	Size	Name
)	74 GBytes	IDE\DiskST380011A
1	149 GBytes	IDE\DiskWDC_WD1600JB-98G

- 5. The Playback Date/Time Selection window appears. Select the date and time.
- 6. If user wants to playback other files, click **Change Folder** button and browse the folder.
- 7. And then, click **OK** to start playback.



- 00~23 is hours and 01~16 is channel

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						5		6		7		8		9		10		11						
						12		13		14		15		16		17		18						
						19		20		21		22		23		24		25						
						26		27		28		29		30		31		1						
						2		3		4		5		6		7		8						
_	Law		Land			Local				Land		Lan		L					Land		Land			1.00
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01 02					-		-		-		_		-							_		_		-
02	-	-	-	-	-	-	-		-	_	-	_	-	-					_	-	_	-	-	-
03	-	-		-	-	-	-	-	-		-	-	-	-					_	-	-	-	-	-
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15									-															1
	-				1																			
16																								

4.3.3 Playback Backup File(*.dvr)

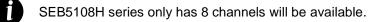
1. Click Archive button.

1

- 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 where backup file folder is.

- 4. Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.
 - Change Folder: To select different playback file form other folder location.
 - Channel 01~ 16&Channel 17 ~ 32: Switch to different channel group of playback calendar if the camera channel is more than 16 channels.



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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.

t	E
Size	Name
1 GBytes	USBSTOR\Disk&Ven_JetFlash
OK	Cancel
	1 GBytes

3. In Backup date/time selection windows, select the date and time. 00-23 represents hours and 01-16 represents channels. Blue block means there has recorded file. Red block means the block has been selected. User can click-and-drag the select multiple block at once.



SEB5108H series only has 8 channels will be available.

ackuj	p Da	te/T	ime	Sele	ction	1																		
						4					200	8/	B					►	1					
						SUN	1	MON	1	TUE		WED)	THU	F	FRI	s	AT	_					
						27		28		29		30		31		1		2						
						3		4		5		6		7		8		9						
						10 17		11 18		12 19		13 20		14 21		15 22		16 23						
						24		18 25		26		20 27		21		22 29		23 30						
						31		1		20		3		4		5		6						
								_								_		-						
	00	01	02	03	04	05	90	07	08	ng	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	00	01	OL	05	04	0.5	00	07	00	0.5	10			13		13	10		10	15	20		LL	2.5
02																								
03																								
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- 4. If user wants to change the backup folder, click **Target Folder** button and browse the folder.
- 5. Click **Backup** to start backup file.
- 6. When backup complete, the complete information windows will display.

4.3.5 To Search Using the Visual Search

- 1. Click Visual Search.
- 2. In the Visual Search Setting dialog box, select the Camera number and the date. Then click **OK**.



3. When a series of frames appear by date, click on the frame to display another series of frames and search by every Hour of that date, every 3Minutes of that hour, every 10 Seconds of that minute, every Second of that 10 seconds. To go back, click



4.3.6 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.
- In the Event Search Setting dialog box, check the type of condition you want to search. If you select POS, in the Find Text box, type the word. Then, click OK to start searching. The video search would stop at the frame that matches the condition. To keep on searching click Find Next (IPI Imp) button.
- 4. You may also set to search and list all the result. Mark Output Event List box and 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.
- 6. When the Event list appear, click and select the item you want to view.

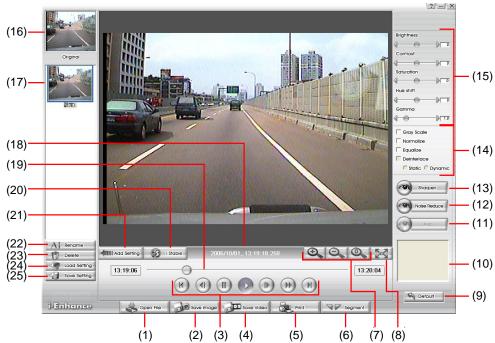
4.3.7 To Search Using the Intelligent Search

- 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.
- 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 Find Next() button.
- 4. You may also set to search and list all the result. Mark List box and 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.

Chapter 5 iEnhance

The bundled iEnhance is a video editing tool and can only be used with *.dvr and *.avf 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 **Adv. Function** >> **iEnhance** on USB Playback Console interface.



Name	Function
(1) Open File	Access *.dvr and *.avf video file.
(2) Save Image	Capture and save the screen shot in *.bmp format.
(3) Playback Control	Begin: Move at the beginning of the video file.
Buttons	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.

Name	Function
(11) Undo	Delete the last action.
(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 5.1)
(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.

5.1 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),
 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.
- When the initialize is done, user will see the original and stabilized recorded video play in two windows.

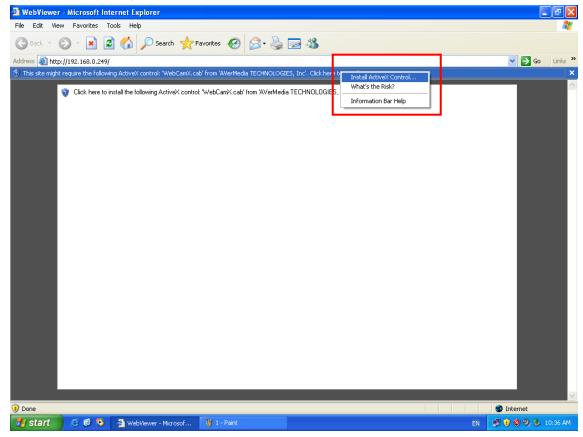


The original video on the right side of window and the stabilized video on the left side of window.

Chapter 6 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. Click to install ActiveX if your PC required to be installed.



And then, Click Install when the Internet Explorer - Security Warning dialog box appears.

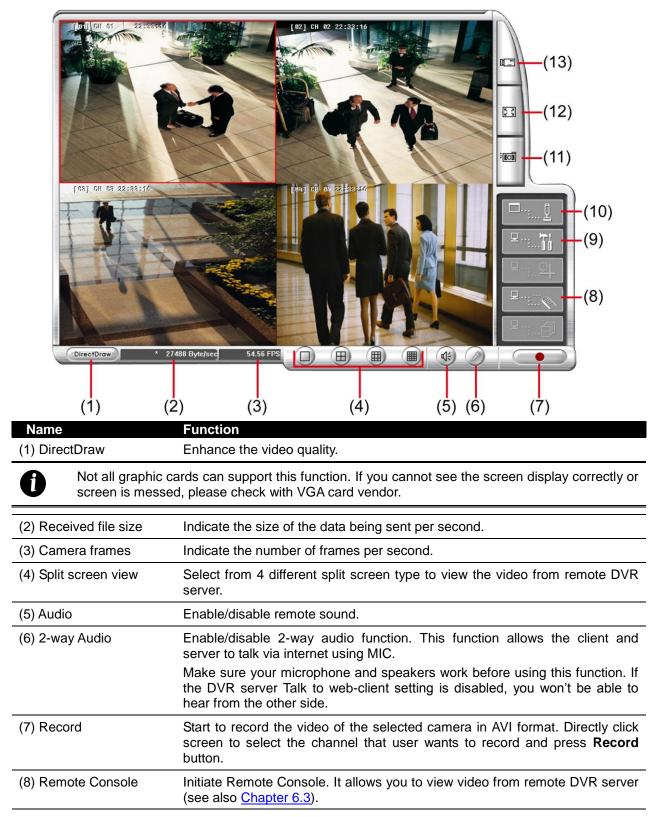


After installing the WebCamX.cab and when connecting to the DVR system, you are required to enter default account ID (default is **Admin**; case sensitive) and password (default is **111111**) and select the type of network.

WebViewer - Microsoft Internet Expl File Edit View Favorites Tools Help G Back	orer 🖸 Search 🤺 Favorites 🚱 🔗 🍃 📄	- @ ×
Address 🛃 http://127.0.0.1/		🗸 🔁 🚱 Links 🎽
DirectDrow		

6.1 Familiarizing the WebViewer Buttons

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



(10) PTZ Control In (11) Snapshot Ca (12) Full screen Us (13) Select cameras to View Cl ac Cl Cl Cl Se Cl	itiate PTZ car apture and sa se the entire a preturn, Right elect to the via isplay column lick Add Serv dd. lick Delete Se lick Import to lick Export to	Recording OK nera controller ve the screen area of the screen area of the screen c-click or press ew camera from , click to enable ver and select erver to delete load the previous save the list.	(see als shot in * een to or ESC on m differe e/disable the ser the sele ous save	o <u>Chapter 6.2</u>) .bmp format. hly display the v the keyboard. ent server. In Se e viewing the ca ver type betwee cted item.	ideo. lect Camera dialog box					
(11) Snapshot Ca (12) Full screen Us (13) Select cameras to Se view Di Cl ac Cl Cl Cl Se Cl	itiate PTZ car apture and sa se the entire a o return, Right elect to the vid isplay column lick Add Serv dd. lick Delete Se lick Import to lick Export to lick Apply All	Recording OK nera controller ve the screen area of the screen area of the screen c-click or press ew camera from , click to enable ver and select erver to delete load the previous save the list.	(see als shot in * een to or ESC on m differe e/disable the ser the sele ous save	o <u>Chapter 6.2</u>) .bmp format. hly display the v the keyboard. ent server. In Se e viewing the ca ver type betwee cted item.	lect Camera dialog box amera.					
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(12) Full screen Us Tc (13) Select cameras to Se view Di Cl ac Cl Cl Cl Cl Cl Cl	se the entire a o return, Right elect to the vid isplay column lick Add Serv dd. lick Delete Se lick Import to lick Export to lick Apply All	area of the scre c-click or press ew camera from , click to enabl ver and select erver to delete load the previous save the list.	een to or ESC on m differe e/disable the ser the sele	nly display the v the keyboard. ent server. In Se e viewing the ca ver type betwee cted item.	lect Camera dialog box amera.					
Tc (13) Select cameras to Se view Di Cl ac Cl Cl Cl Cl Cl Cl	o return, Right elect to the vie isplay column lick Add Serv dd. lick Delete Se lick Import to lick Export to lick Apply All	-click or press ew camera from , click to enable ver and select erver to delete load the previous save the list.	ESC on m differe e/disable the ser the sele ous save	the keyboard. ent server. In Se e viewing the ca ver type betwee cted item.	lect Camera dialog box amera.					
(13) Select cameras to Se view Di Cl ac Cl Cl Cl Se Cl	elect to the vie isplay column lick Add Serv dd. lick Delete Se lick Import to lick Export to lick Apply All	ew camera from , click to enable ver and select erver to delete load the previous save the list.	m differe e/disable the ser the sele ous save	ent server. In Se e viewing the ca ver type betwee cted item.	amera.					
view Di Cl ac Cl Cl Cl Cl Se Cl	isplay column lick Add Serv dd. lick Delete Se lick Import to lick Export to lick Apply All	, click to enabl ver and select erver to delete load the previo save the list.	e/disable the ser the sele ous save	e viewing the ca ver type betwee cted item.	amera.					
Cl ac Cl Cl Cl Sc Cl	lick Add Serv dd. lick Delete Se lick Import to lick Export to lick Apply All	ver and select erver to delete load the previo save the list.	the ser the sele ous save	ver type betwee cted item.						
ac Cl Cl Cl Se Cl	dd. lick Delete Se lick Import to lick Export to lick Apply All	erver to delete load the previo save the list.	the sele	cted item.						
CI CI SE CI	lick Import to lick Export to lick Apply All	load the previous save the list.	ous save							
CI CI SE CI	lick Export to lick Apply All	save the list.		ed list.						
Cl se Cl	lick Apply All		the com							
se Cl		to change all	the com							
CI	etting.	0	the cam	era video qualit	y based on the selected					
	0									
Se Se	Click OK to exit.									
	elect Camera									
ſ	Add Server	Delete Server	Import	Export						
	No. IP Address	Camera Name	Display	Video Quality						
	01 10.1.2.22:80 02 10.1.2.22:80	CH 01 CH 02	\checkmark	-						
	03 10.1.2.22:80	CH 03								
	04 10.1.2.22:80 05 10.1.2.22:80	CH 04 CH 05								
	06 10.1.2.22:80	CH 06	V I	-						
	07 10.1.2.22:80	CH 07	✓	-						
	08 10.1.2.22:80	CH 08								
	09 10.1.2.22:80 10 10.1.2.22:80	CH 09 CH 10	\sim							
	11 10.1.2.22.80	CH 10 CH 11	\sim	-						
	10 10 1 2 22:90	CH 12		· · · · · · · · · · · · · · · · · · ·						
		OK		Apply All						
	SEB510									

6.1.1 To Setup Remote System Setting

Click **OK** to exit and save the setting and **Cancel** to exit without saving the setting. The setting here applies to Remote DVR system only.



After changed the DVR system setting, refresh your web browser in order to apply the new setting to the DVR system.

6.1.1.1 System Setup

	System Setup			
			Login	(7)
(1)—	Server Name		Auto Login when OS Start	(')
(2)—	Audio Mute	,	C Auto record when login	
(3)—	🔽 Disk Overwrite		Auto start Network when login	
(4)—	Record Limit	0 Days		
(5)—	Date format	DD/MM/YYYY		
(6)—	AutoScan Period	0		
			OK Cancel	

(1) Server Name

Give the name for DVR server.

(2) Audio Mute

Enable/disable to hear audio sound of local DVR. To hear sound, make sure the unit is connected to an audio output device (ex: speaker). If user recorded video in audio mute status, there is no sound when playback

(3) Over Write Enable

Enable/disable replacing the earliest record when the hard disk space runs out. By default, the HDD overwrite setting is enabled

(4) Record Limit

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

(5) Date Format

Select the display format of the date (yyyy/mm/dd, mm/dd/yyyy, dd/mm/yyyy)

(6) Auto Scan Period

Enable/disable auto cycle switch to display the next channel when in full screen preview.

(7) Login

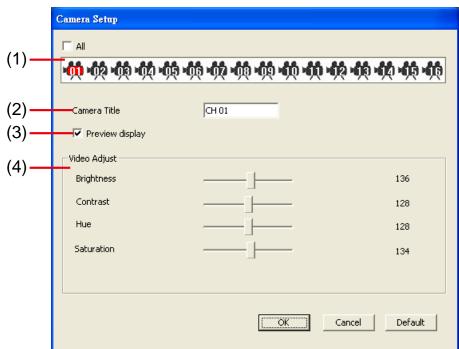
Auto Login when OS start

Automatically login when the DVR system is started.

- Auto record when login

Automatically start video recording when the DVR system is executed.

6.1.1.2 Camera Setup



(1) Camera icon

Select the camera that user wants to set up.



SEB5108H series only has 8 channels will be available.

(2) Camera Title

Enter a name for the camera

(3) Preview display

Enable/disable the previewing of selected camera on surveillance screen. 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.

(4) Video Adjustment

Select the camera and adjust the **Brightness**, **Contrast**, **Hue** and **Saturation** of the selected camera. Click **Default Value** to set all video setting back to the default.

6.1.1.3 Record Setup

All All All All Audio Record Audio Record Parameter Resolution D1 HD1 CIF Max Frame Rate D1 Not Installed Free Record Time Alter Record Time Comparison Sec. After Record Time Comparison Comp		Record Setup					
Total Frame Rate(CIF) 480 Surplus Frame Rate(CIF) 288 Audio Record Parameter Resolution D1 HD1 CIF Always Record Sensor Record Max Frame Rate 6 Motion Record Smart Record Motion Record Smart Record None Video Quality 95 Sensor trigger 01 Not Installed Image: Construction of the text of							_
Parameter CIF Record schedule (4 Max Frame Rate 6 Motion Record Sensor Record Min Frame Rate 6 Motion Record Smart Record Video Quality 95 Sensor trigger 01 Pre Record Time 0 Sec. 0)-	ộ• ় •	ģ• ఝ•ఝ• ఝ	، ∰، ∰، ∰،	ф.ф.ф.ф.		
Resolution C D1 C HD1 C CIF Max Frame Rate 6 Motion Record Smart Record Min Frame Rate 6 None Video Quality 95 Sensor trigger 01 Not Installed 9 Pre Record Time 0 Sec.	2)-	Total Frame Rate(CIF)	480	Surplus Frame F	Rate(CIF) 288	V Audio Record	
Resolution D1 HD1 CIF Aways Record Sensor Record Max Frame Rate 6 Motion Record Smart Record Min Frame Rate 6 None Video Quality 95 Sensor trigger 01 Not Installed Pre Record Time 0 Sec.	<u>.</u>	Parameter					(4
Min Frame Rate 6 Video Quality 95 Sensor trigger 01 Image: Not Installed Pre Record Time 0	η_	Resolution	C D1 🔍 H	D1 CIF	Always Record	Sensor Record	``
Video Quality Sensor trigger 01 Vinstalled Video Construction of the sensor trigger 01 Video Construction of t		Max Frame Rate		6	Motion Record	Smart Record	
Sensor trigger 01 Not Installed Image: Construction of the constructio		Min Frame Rate	j	6	None None		
Pre Record Time 0 Sec.		Video Quality		<u>}</u> 95			
		Sensor trigger	01 💌 Not Ins	stalled 💌			
After Record Time 5 Sec. Sec. Sec.		Pre Record Time	0	Sec.			
		After Record Time	5	Sec.		tecord schedule	
OK Cancel Default					(OK	Cancel Default	1



SEB5108H series only has 8 channels will be available.

(1) Camera icon

Select the camera that user wants to set up. To select channel 01~ 16, mark All.

(2) Frame Rate Info Display

Display the total frame rate and the available frame rate info that deepens on the **Total Frame Rate** and **Surplus Frame Rate** setting of every camera.

(3) Record Mode

- Resolution

Select D1/CIF recording mode. Under D1 mode, the video recording is in full screen resolution and takes turns from one channel to the next one when Auto Scan enables. Each channel is recorded up to a maximum frame rate of 30/25fps(NTSC/PAL). User can switch to view the video in full screen or QUAD screen. Whereas in CIF mode, video recording is at a lower resolution, but each video is recorded in 60fps/50fps (NTSC/PAL). User can switch to view the video in full screen or QUAD screen

- **Max Frame Rate:** Set the maximum number of frames to be recorded during motion and motionless state. The higher the frame rate, it uses more hard disk space.
- **Min Frame Rate:** Set the minimum number of frames to be recorded during motion and motionless state. The higher the frame rate, it uses more hard disk space.
- Video Quality: Adjust the video quality. The higher the value, the lower the compression level and uses more hard disk space.

Condition	Description
NOT INSTALLED	Indicates that there is no sensor connected
NORMAL OPEN	Indicates that the initial state of the sensor is normal open. Video recording initiates when there is a changes in the sensor state
NORMAL CLOSE	Indicates that the initial state of the sensor is normal close. Video recording initiates when there is a changes in the sensor state

- Sensor Trigger: Customize the initial state of the attached sensor.

- **Pre Record Time:** set the time in second for the DVR system to pre-recording before the alarm happen.

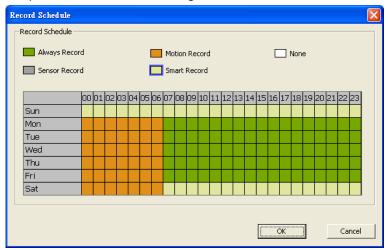
After Record Time: set the time in second for the DVR system to continue recording after the alarm has ended.

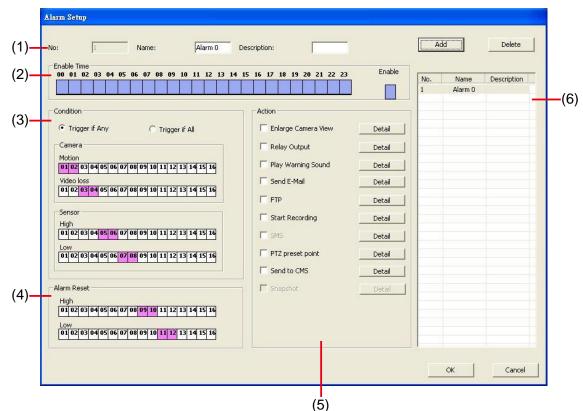
(4) Record Schedule

By default, in 24 hours, the recording schedule is set to always record every hour. Refer to the table below to customize the recoding condition.

Condition	Description
None	Disable video recording
Always Record	Record non-stop
Motion Record	Start recording when any movement is detected
Smart Record	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.
Sensor Record	Start recording when the sensor has triggered

Click **Schedule** to setup record schedule. Click the type of schedule and select hour (00~23) and click **OK** to complete the schedule setting.





6.1.1.4 Alarm Setup

- 1. Select the alarm from (6) alarm list table.
- 2. In (1) user can change alarm Name and Description.
- 3. In **(2) Enable Time**, the number from 00 to 23 represent the time in 24-hour clock. Click the time that user want to activate or deactivate the alarm function.
- 4. Select the (3) Condition:
 - Select **Trigger Any** to activate if it falls to one of the conditions or **Trigger All** to activate if it falls to all conditions.
 - Set condition of Camera.
 - Motion Detected: click on the camera number to set the condition for the system to alarm.
 - ✓ In Video Loss, click the camera number to set the alarm condition when video is lost.
 - ✓ Set condition of Sensor. 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.
- 5. Set condition of **(4) Reset Alarm**. Click the camera number to set the reset condition of alarm. Once alarm is reset, all alarm action will stop at the moment.
- 6. Setup (5) actions of alarm.
 - Enlarge Camera View

Switch to only display video in Preview/Advanced 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.
 - Alarm Camera: when a channel has an alarm occurred, and then, the channel video that has an alarm occurred will be enlarged on screen.
 - **Camera #:** the selected channel video that will be enlarged on screen when an alarm is activated.

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.

Enlarge Camera Setup		
Alarm Camera	•	_
✓ Retrieve Time	3	Sec 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. In the Relay Setup dialog box, mark from the available relay list; set to enable/disable the relay operation when the alarm is activated. Set the **Retrieve time**, you may to extend the relay operation time and set the duration in second. Click **OK** to exit and accept the setting and **Cancel** to exit without saving the setting.

Relay Setup	
Relay Trigger	
□ 01 □ 02	C 03 C 04
Retrieve Time	3 Sec
	OK Cancel

- Play Warning Sound

Play alarm sound. Set the time duration in seconds.

ÿ	Varning Sound Setup		×
	Buzzer Buzzer Warning time	3	Sec.
		OK	Cancel

- Send E-mail

Send an electronic text message.

E-Mail Setup	
Mail Server	: 25
ID	Password
Mail	
From :	Message
То :	
cc :	
Subject :	
Snapshot	
Notice inerval	1 Minute
C Attach image when sensor is triggered	Camera01
	OK Cancel

> 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**.

> Mail

- To check if it is working, click **Test** button.
- ✓ **From:** Enter the sender e-mail address.
- ✓ **To:** Enter the recipient email address and separate it with comma or a semicolon.
- CC: Enter the email address of recipient that needs to be informed and separate it with comma or semicolon.
- ✓ **Subject:** Enter the message title.
- ✓ **Message:** Type the message.

Email Notice Setting Notice Interval: Set the period of time before it sends another e-mail notice.

- FTP Setup

- 1. In the FTP Setting dialog box, enter the FTP Server (IP address), Port, ID and Password.
- 2. In **Upload image when sensor is triggered** option, select the camera that the images will be capture and send when the sensor is triggered.
- 3. Click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.

F	TP Setup		
	FTP		
	Ftp Server		1
	Port	0	1
	ID]
	Password		1
	Upload image when sensor is	triggered	
		Camera01 💌]
		Cance	el

- Start Recording

Record the video from the selected camera.

- 1. In **Recording Cameras**, select the camera to enable/disable video recording. Mark **All** to select all cameras.
- 2. In the Frame Rate selection, select **As Setting** to record the number of frames based on the Recording Setting or **Max** to record the maximum of frames based on the available speed.
- 3. In the **Start Recording prior** text box, mark and set the number in second for the DVR system to pre-recording before the alarm happen.
- 4. In the **Stop Recording after** text box, mark and set the number in second for the DVR system to continue recording after the alarm has ended. If user doesn't mark and set the time, the alarm recording will continue recording until alarm is reset.
- 5. Click **OK** to complete the setting.
- SEB5108H series only has 8 channels will be available.

Start Record Setup							×
🗆 All							
Recording Cameras							
□1 □2	Пз	4	5	□ 6	□ 7	□ 8	
□ 9 □ 10	□ 11	□ 12	Π 13	□ 14	□ 15	□ 16	
Frame Rate							
As Setting			C M/	4X			
Start Record P	rior		0		Sec.		
🔲 Stop Record Af	fter		0		Sec.		
			Ok			Cancel	

- PTZ Preset Point

A

Position the PTZ camera based on the preset point setting.

- 1. Next to the PTZ preset point check box, click Detail.
- 2. In the **PTZ Setup** dialog box, select the PTZ camera number in **Select Camera**. And then mark the **Enable** check box.
- 3. In Preset Number section, select the **Alarm Trigger** and **Alarm Close** of the PTZ camera when the alarm is activated and ended. User also can select **Auto Pan** group as alarm is activated and ended.
- SEB5108H series only has 8 channels will be available.

PTZ Setup			×
Select Camera	Camera01	•	
▼ Enable Preset Number			_
Alarm Trigger			
@ 1 C 2	C 3 C 4	05 06 07 08	
C 9 C 10	O 11 O 12	○ 13 ○ 14 ○ 15 ○ 16	
Alarm Close			
C 1 C 2	C 3 C 4	05 06 07 08	
C 9 C 10	C 11 C 12	C 13 C 14 C 15 C 16	
AutoPan			
1 - 4		5-8	
9 - 12		🗖 13 - 16	
		OK Cancel	

- Send to CMS

1

Select the camera to enable/disable sending the video to CMS (Central Management System, ex: CMS3000). To select all cameras, mark **All** check box.

SEB5108H series only has 8 channels will be available.

CMS	Setup)						D	<
E A	ll								
_ ^{Tra}	ansmitt	ing Came	ras —						
	1	2	П 3	□ 4	5	6	□ 7	□ 8	
Г	9	□ 10	□ 11	□ 12	□ 13	☐ 14	□ 15	□ 16	
						OK]	(Tancel	

6.1.1.5 Network Setup

1

3LD3	Tool i selles only h			
	Network Setup			
(1)—	—Transmitting Cameras		v 03 v 04 v 05 v 06 v 11 v 12 v 13 v 14	▼ 07 ▼ 08 ▼ 15 ▼ 16
(2)—		• Static IP	O DHCP O PPPOE Options	(4)
	Gateway 11 DNS 10 PPPOE User ID 84	32 . 168 . 0 . 254 38 . 95 . 1 . 1 801814@hinet.net	Server Port	8080
(3)—	Password Pas		NTP Setting Time Zone Time Server	GMT-12:00
			ОК	Cancel

SEB5108H series only has 8 channels will be available.

(1) Transmitting Camera

Select the camera to disable/enable camera can be view from remote site.

(2) Network Type

Select the IP Mode – Static IP, DHCP, or PPPOE

- Static IP: Assign a fixed and global IP address for the DVR system
 - ✓ IP: Assign a constant IP address which real IP addresses from ISP.
 - Mask: Enter the subnet mask of the IP address which user has assigned to DVR system.



It is a bitmask used to tell how many bits in an octet(s) identify the sub network, and how many bits provide room for host addresses.

- ✓ **Gateway:** Enter the network gateway IP address
- DNS: Domain Name Server translates domain names (such as www.abb.com.tw) to IP addresses. It will translate the domain name into IP address when DVR system request.
- DHCP: Assign the IP address by local DHCP server to DVR system.



The Dynamic Host Configuration Protocol (DHCP) is a set of rules used by a communications device (such as a computer, router or networking adaptor) to allow the device to request and get an Internet address from a server which has a list of addresses available for assignment.

- 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.

✓ User ID & Password: fill in the user account and password that user applied from your

ISP for PPPOE connection.

(3) 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 wanted.

- Passowrd

A password use to access DDNS to register the domain name.

(4) Options

Remote Audio Recording

Enable/disable audio recording when recording at remote site.

- Server Port

A port is using for the remote connection. Any port can be assigned as a server port, except the ports already used by the network services.

- UPNP

Enable UPnP function to automatically configure the port setting on the local network. This function is available when there is UPNP device in the same network. It will write the DVR port information into the router or other network device Enter the **UPNP Port** of the DVR.

(5) NTP Setting

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** that DVR is located.

6.2 Familiarizing the WebViewer PTZ Buttons



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) Auto Pan 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 (1~9) is based on the user has setup by remote control at local site.

6.3 Familiarizing the Remote Console Buttons



(2) Split Screen Mode Select from 6 different split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.

SEB5108H series doesn't support 16, 13, and 32-split screen mode.

1

(3) Record	Start/stop video recording. Enable/disable remote system access. This feature allows you to access DVR server from a remote location via internet connection.				
(4) Network					
(5) Setup	Configure the Remote Console setting. (see also Chapter 6.3.1)				
(6) PTZ	To call out PTZ control panel for controlling PTZ camera.				
(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 6.4)				
(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.				
SEB5108H se	eries only has 8 camera ID will be available for selecting.				
(11) Snapshot	Capture and save the screen shot either in *.jpg or *.bmp format.				

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Function

(12) Event Log

Name

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**. User also can filter the event log by **Date** or enter the specific key work in **Find Text** to search. To save the event log list in text format file, click **Save** button.

	OOP	ERATION		Date 12/16/2009	
OSYSTEM	O NE'	TWORK	● ALL	Save	
Time		Cam	Туре	Event	_
2009/12/16 08:43	7:57		SYSTEM	Login DVR (Admin)	
2009/12/16 08:43	7:58		OPERATION	Enter Setup	
2009/12/16 08:48	3:07		OPERATION	Enter Setup	
2009/12/16 08:48	3:20		OPERATION	Enter Setup	
2009/12/16 08:49	9:35		SYSTEM	Login DVR (Admin)	
		OPERATION	Enter Setup		
2009/12/16 08:49	9:47		OPERATION	Enter Setup	
2009/12/16 08:5:	1:14		SYSTEM	Login DVR (Admin)	
2009/12/16 08:5:	1:15		OPERATION	Enter Setup	
2009/12/16 08:53	3:51		SYSTEM	Login DVR (Admin)	
2009/12/16 08:53	3:53		OPERATION	Enter Setup	
2009/12/16 09:1:	1:19		SYSTEM	Login DVR (Admin)	
<					>
					_
Find Text				Search	

(13) Auto Scan	Enable/disable channel auto 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) Audio	Enable/disable the sound display			
(16) DirectDraw	Enhance the video quality.			
Direct Draw fur VGA card vendo	nction supports for certain VGA card. For more information, please contact your or.			

6.3.1 To Setup Remote Console Setting

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

	System Setting			X
(1)—	Storage Path			
()	Folder Name	Free Space	Disk Space(Used)	
	C:\RemoteData	11.87G	40.00G(0.56G)	
		Add	Delete]
	Enable network s	torage		
(2)—	Language			
()	System Language	English	~	
(3)—	Remote Server			
. ,	Server Name	IP Ad	dress Port	
	Default		.2.59 80	
	Default	10.1	.2.22 80	
		Add	Delete)
(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 that user wants to remote connect it.

(4) Channel Settings

The numbers from 1 to 16 or 1 to 8 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.

Cha	nnel Set	ings							\sim
	All Transmit	ting Cha	annels -					< >	
	1	2 2		₹4			7		
	9	10	∨ 11	№ 12	№ 13	✓ 14	✓ 15	✓ 16	
	All /isible Cl	nannels						< >	
			₹3	▼ 4			7	∢>	
	isible Cl	2 2		<u> </u>			✓ 7✓ 15	₹8	

6.4 Using the Remote Playback

To use this feature, first switch to playback mode by clicking the **Playback** icon, and then, 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 on the DVR server.

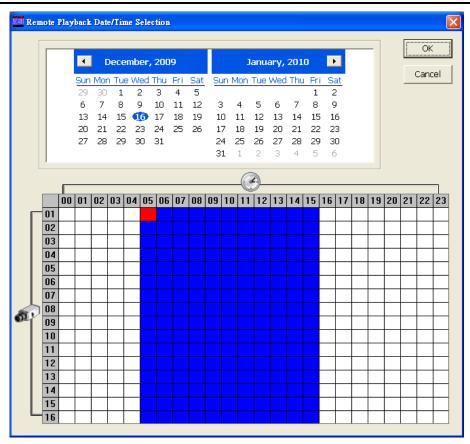
Click OK to proceed and Cancel to void this operation.

Select Playback Mode				
 ○ Local Playback ⑦ Remote Playback 				
⊙ Download and Playback ○ RealTime Playback				
OK Cancel				

In the Remote Playback Date/Time Selection, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16/01 to 08 represent the camera number.



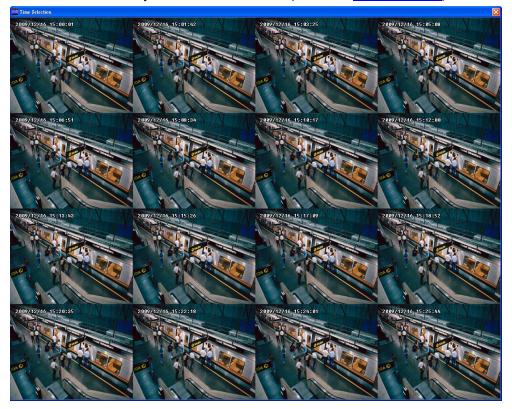
SEB5108H series only has 8 channels will be available.



To Make a Selection:

- 1. Select the date in the calendar. Use I and I buttons to shift the calendar to the left or right.
- 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.

4. 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 6.4.2</u>).



6.4.1 Familiarizing the Local Playback Buttons

(1)	
(2)	(3) (4) (5) (6) (7)
Name	Function
(1) Exit	Click to exit or minimize the application. The password is required for exit or minimize.
	Please enter your user ID and password.
	User ID Admin
	Password
	Exit Minimize Cancel
(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) Split Screen Mode	Select from 6 different split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.

0

_

(4) Hour Buttons

Select and click to playback the recorded video file on the specific time frame.

To zoom in an area on the screen, Right click and Drag a square on the area you want to

The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. If there is no recorded data within the hour, there will be no color bar on top of the hour button. While the red bar indicates that you are currently viewing the recorded video file.

- If there are only 8 cameras, you won't be able to switch to 16, and 13 split screen mode.

enlarge. To back to normal view, right click the channel screen again.

(5) Playback Control	From left to right order:
Buttons	Begin: Move to 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 video file.

Name	Function						
(5) Playback Control Buttons	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. End: Go to the end of the 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: user can open the recorded file from certain location. Channel 01~ 16 and Channel 17 ~ 32: Click the button to switch to different channel group of playback calendar if the DVR has more than 16 channels. Day Light Saving: Mark to display the available playback records during day light saving period only. 						
	0 0						

The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 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, and 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 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 *.avi, *.mpg, or *.dvr format (see also <u>Chapter 6.4.1.1</u>).
(12) Segment	Keep a portion of the recorded video you want (see also Chapter 6.4.1.1).
(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. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.
(15) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. (See also <u>Chapter 6.4.1.2</u>)

Name	Function
(16) 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.
(17) Intelligent Search	Search the changes in the motion detector frame (See also Chapter 6.4.1.3).
(18) Audio	Enable/disable audio play
(19) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and select #2, if it captures lots of movement.

6.4.1.1 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 or choose to **Burn** the video segment to VCD/DVD ROM (only for .*mpeg file format).
- 5. Select the file type and select the camera information display position when playback. The camera information will be the information of server name that user has defined in Network Setting.
- 6. If the select the file type is *.avi, user can mark **included audio** to include audio in output video segment.

The *.mpg format doesn't support audio output.

7. To adjust Video Quality if needed.

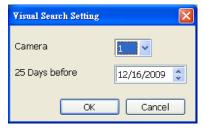
1

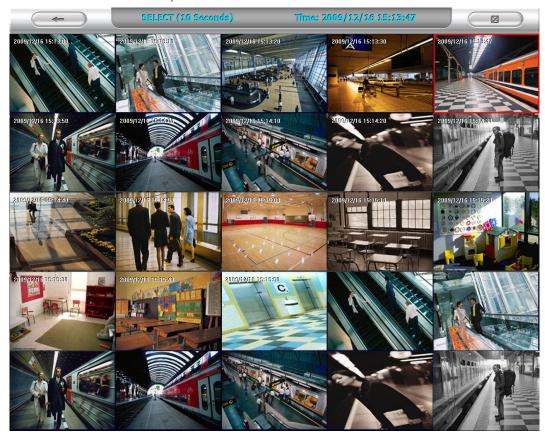
8. Click **Save** to save the video segment.

Save As				? 🛛
Savejn: 🚺	Desktop	~	6 🔊	⊳ 🖽
My Docume My Comput My Network POSDB_Bac	er k Places			
File <u>n</u> ame:	2008_9_23_17_2_1			<u>S</u> ave
Save as <u>t</u> ype:	MPEG Files (*.mpg)		~	Cancel
Video Quality: ♥ show camer ⊂ Text Alignme			70	
💽 Left-Top)	O Left-Bottom		
O Right-To	p	Right-Bottom		
Burn CD/D	/D			
				.:

6.4.1.2 To Search Using the Visual Search

- 4. Click Visual Search.
- 5. In the Visual Search Setting dialog box, select the Camera number and the date. Then click **OK**.





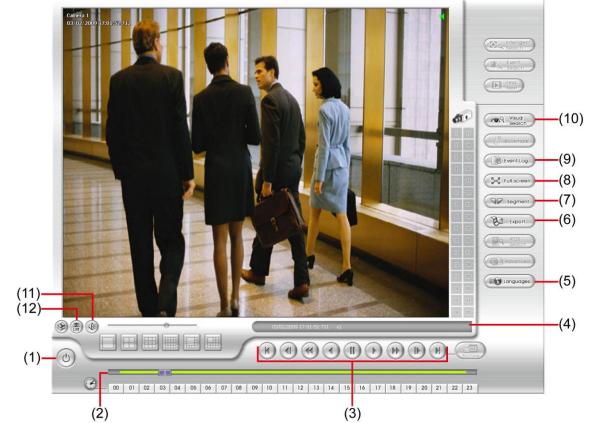
6.4.1.3 To Search Using the Intelligent Search

- 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 Find Next(I but on.
- 4. You may also set to search and list all the result. Mark List box and 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. The search result will show as below figure:

СН	11 Motion List	X
_		_
	Time	
1	2009 03/03 14:31:15	_
_		_
_		_
-		
_		_
_		_
_		_
_		_
-		
		_
	Finish	
	- I IIIai	



6.4.2 Familiarizing the Download and Playback Buttons

(-	(0)
Name	Function
(1) Exit	Click 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	From left to right order:
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.
(4) Status bar	Display the recorded date, time and play speed.
(5) Language	Switch the language of function/button tips
(6) Export	Export includes Snapshot, Print, and Output 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 <u>Chapter 6.4.1.1</u>).
(7) Segment	Keep a portion of the recorded video (see also Chapter 6.4.1.1).
(8) 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.

Name	Function
(9) 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 POS.
(10) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second (See
	also Chapter 6.4.1.2).
(11) Audio	Enable/disable audio.
(12) 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.

ENB ðî. (13) Full screen (12) (11) Export (a) (14)(10)(15)(9) K (1) (4) (1) (1) (1) (1) (1) (1) (1) (1)-0 (8)(4)(2)(3)(5)(6) (7)Name Function (1) Exit To close or minimize the application. The authorization password is requires. (2) Split Screen Mode Select from 6 different split screen type to playback the recorded video file of all the camera, or one camera. - If there are only 8 cameras, you won't be able to switch to 9, 16, and 13 split screen mode. To zoom in an area on the screen, **Right** click and **Drag** a square on the area you want to enlarge. (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. The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file. From left to right: (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. Next: Go to the next frame. End: Go to the end of the recorded video file.

6.4.3 Familiarizing the Realtime Playback Buttons

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 certain location. Channel 01~ 16 and Channel 17 ~ 32: Click the button to switch to different channel group of playback calendar if the DVR has more than 16 channels. 			
	Video Phylack Date/Time Selection Sum Mon Tue Wed Thu FI Cancel 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 4 5 6 7 8 9 10 11 12 13 4 5 6 7 8 9 13 14 15 16 6 7 8 9 13 14 15 16 6 7 8 9 12 22 24 25 26 27 28 29 30 1 2 3 4 5 6 Channel 101-16 Channel 17-32 Open File Open File Open File Open File Open File Open File<			
	Image: Constraint of the			

The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 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	 Export includes Snapshot, Print, Output Video Clip, and Backup 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 <u>Chapter 6.4.1.2</u>). 		
(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. To filter the records, select and click the option button to only display Event, System, Operation, Network or POS.		
(14) Audio	Enable/disable audio play		
(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.		

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 http://ddns.avers.com.tw with IE browser to access the following dialog.

User Login				
CD-Key No.				
Product	~			
OK Reset				

2. First input the MAC address as CD-Key No. and select the product name. Then click **OK** to login or **Reset** to clear the previous input.

To find the MAC address, please go to preview UI and click > Status. User should see the MAC address in System section.

3. User Information

1

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.

User Information				
Host Name	AVerMedia	*		
Domain Name	avers.com.tw			
Deserved	Notesk	*		
Password		*		
Confirm Password	XXXX	*		
E_mail	odysseus@ms1.url.cor	*		
Company	AVerMedia			
		-		
Country	Taiwan	<u>-</u>		
0	Reset			
Country	Taiwan	-		

Appendix B Network Service Port

The following table shows the ports that DVR server uses for certain network service.

	Port#	Variable
Remote Console	5550	Y
WebViewer	80	Y
СМ3000	80	Y
Firmware Update	5005	Y
DVR DDNS (Upload / Download)	53/1053	N

Appendix C Installing 3rd and 4th Hard Disk

Before install 3rd and 4th hard disk, please make sure to purchase the 90W power adaptor.

Please refer to the below steps to install 3rd and 4th hard disk.

1. Loosen all screws (2 sides and back)

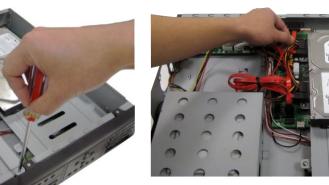


3. Loosen the screws of holder to make hard disk install more easily.

2. Push the cover backward and lift to open the case cover.



Unplug the power cables and SATA cables of 2



4.

HDD.

- Loosen all the screws of hard disk plate. And
 then, take out the HDD plate from the DVR unit.
- 6. Place the 3rd hard disk on the hard disk plate.

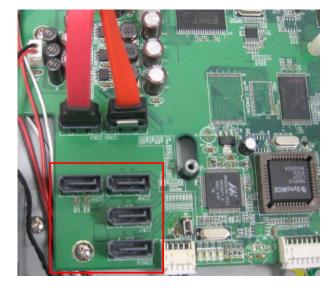




- 7. Turn the plate and hard disk over carefully and screwed the hard disk on the plate. If hard disk cannot be fit to the screw hole, then, you may adjust the hard disk position to fit the screw hole.
- 8. Plug the SATA cable into SATA connector on the PC board



9. Plug the power cables and SATA cables into all three hard disk. User can unplug the SATA cable of the left side HDD for screwing plate inside the DVR more easily later.



10. Screw the plate within hard disk inside the DVR unit.





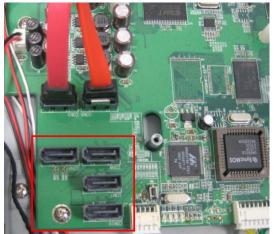
11. If user wants to install 4th HDD, then follow the steps to continue. Otherwise, go to the last two steps to complete the installation.

- 12. Place the 4th hard disk on the HDD holder. The 13. Screw (6 screws for both side) the hard disk on head side of hard disk is same side of the screw hole of HDD holder.
 - the HDD holder.





14. Plug the SATA cable into STAT connector on the 15. Plug another side of SATA cable and power cable to the hard disk. PC board.



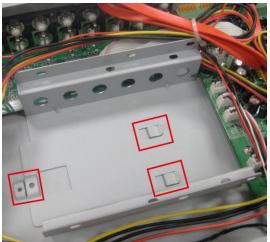


16. Place the HDD holder inside the DVR unit. The screw hole of HDD holder is aligning with screw hole on the DVR unit.





17. Push the HDD holder forward and screw hole of HDD holder will match the screw hole on the DVR unit and HDD holder should hook on the stabled hook on the DVR unit.



18. Screw the HDD holder inside the DVR unit.



19. Screw the holder on the DVR unit.



20. Push the cover forward and secure the cover

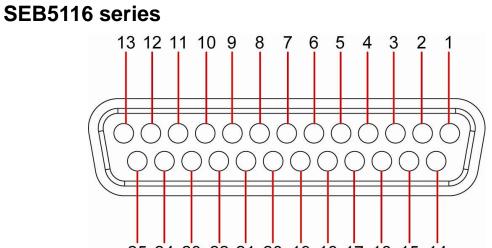


21. You may now connect all the cables and power (90W adaptor) on the DVR unit.



Appendix D Pin definition of audio in port

The following table lists the pin definition of audio in port.

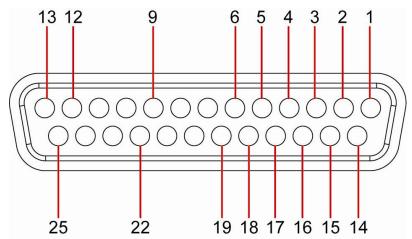


25 24 23 22 21 20 19 18 17 16 15 14

Pin #	Definition	Pin #	Definition
1	RCA(1)	14	RCA(2)
2	RCA(3)	15	RCA(4)
4	RCA(5)	17	RCA(6)
5	RCA(7)	18	RCA(8)
7	RCA(9)	20	RCA(10)
8	RCA(11)	21	RCA(12)
10	RCA(13)	23	RCA(14)
11	RCA(15)	24	RCA(16)

Pin #	Definition	Pin #	Definition
3		13	Black 3.5MONO
			(Microphone input)
6		25	White RCA
			(Audio output)
9	Shield		
12			
16			
19			
22			

■ SEB5108 series



Pin #	Definition	Pin #	Definition
1	RCA(1)	14	RCA(2)
2	RCA(3)	15	RCA(4)
4	RCA(5)	17	RCA(6)
5	RCA(7)	18	RCA(8)
Pin #	Definition	Pin #	Definition
3		13	Black 3.5MONO
			(Microphone input)
6		25	White RCA
			(Audio output)
9	Shield		
12			
16			
19			
22			

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 3 year from the date of purchase

Parts are warranted for 2 year from the date of purchase

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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