TRIPLEX 4/8 CHANNEL BASIC/NETWORK

USER'S MANUAL

Thank you for purchasing the product.

We recommend users who install and operate the unit to thoroughly read this manual and other reference manuals indicated in this manual before installation and operation.

The pictures can be different from real system according to specification.

This user's manual is based on Triplex 4/8 Channel Basic/Network Series. Triplex 4/8 Channel Basic model support USB socket as a basic backup device, it does not support network function. Network function is only supported on Triplex 4/8 Channel Network model.

This user's manual and the software of Triplex 4/8 Channel Basic/Network are protected by COPY-RIGHT LAW.

GENERAL SAFETY AND PRECAUTIONS

This model is manufactured to safety international safety standard. Review the following safety precaution to avoid injury and prevent damage to the DVR or any products connected to it.

1. Use a proper power source.

Do not operate this product from a power source that applies more than the specified voltage (90~260 VAC).

2. Never insert metallic material into the DVR case. A This can cause electric shock.

3. Do not operate in wet & dusty condition. Keep product surfaces clean and dry.

Avoid placing the DVR in areas like a damp basement or a dusty hallway.

4. Do not expose this product to rain or use near water.

If the product gets wet, unplug it and contact an authorized dealer immediately.

5. To clean the outside case of the DVR, use a lightly dampened cloth (no solvents).

6. The DVR generates heat during operation. Place the DVR in a well ventilated area. The DVR has a built in fan to properly ventilate the system. Do not block air bent holes (bottom, upper, sides and back) of the DVR case.

7 Do not operate with suspected failures. If there are any unusual sounds or smells coming from the DVR, unplug it immediately and contact an authorized dealer or service center.

8. Do not attempt to remove the top cover.

Warning: Removing the cover of DVR can cause severe electrical shock.

9. Use standard lithium cell battery. MOTE: Battery is installed in the system.

The standard lithium cell 3V battery located on the mother board should be replaced if the time clock does not hold its time after the power is turned off.

Warning: Unplug the DVR before replacing battery or you may be subjected to severe electrical shock. Properly dispose of old batteries.

Caution: Risk of explosion if battery is replaced by an incorrect type. Do not discard lithium batteries into the trash can or into fire. Dispose in accordance with local waste regulations.

10. Some DVR models use a DC adapter because the power supply is outside the DVR cabinet.

Use only the DC adapter that is supplied.

FCC COMPLIANCE STATEMENT

Caution: Any changes or modifications in construction of this device which are not expressly approved the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with 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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications, Operation of this equipment in a residential area is likely to cause harmful interference in witch case the user will be required to correct the interference at this own expense.

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1. SYSTEM COMPONENTS

Following picture shows the components of a system. Open the package and check the components of the system.



NO	Components	Volume
1	DVR system	1
2	Power cord	1
3	AC-DC adapter 5A, 12V	1
4	User's manual	1
5	CD (viewer and operation& installation guide)	1
6	IR remote control	1

In the case that the system or components have problems, contact with seller or aReferencecustomer service center. The components may not be identical to the picture shown
above.

2. THE NAME OF EACH SECTION

2.1. FRONT PANEL



Each button of a system on front panel has below function.

NO.	Name	Function			
1	Channel	Choose channel what you want to see.			
2	LED	LED for Power, recording, playback.			
3	REMOCON	Receive IR remote control signal			
4	CURSOR	Menu direction button of left, right, up, down button.			
5	ENTER	Selection button.			
6	MENU/EXIT	Menu/ Exit Button.			
7	CD-R/W	CD-R/W (option item) for data back-up.			
0	1100	USB Socket for Data back-up/ firmware upgrade.			
8	USB	(Used Only USB Memory Stick.)			
9	PTZ	PTZ mode On/Off.			
	REW	Rewind.			
	PLAY/PAUSE	Playback/ Pause.			
10	FF	Fast forward.			
	STOP	Stop.			
	RECORD	Record.			
11	SEARCH	Time Search.			

2.2. REAR PANEL



NO.	Name of connection part	Function		
1	VGA	Video output port for LCD/Computer monitor.		
0	LAN	Port for connecting LAN cable.		
2		(Except 4/8 Channel Basic Model)		
3	RJ11	Controls DVR system.		
4	VIDEO OUT	Port for video output.		
5	AUDIO IN,OUT	Port for Audio in/output.		
6	VIDEO IN	Port for video input.		
7		Port for mouse that controls screen.		
(PS/2	Control screen by using mouse.		
0	Video			
8	conversion switch	Switch for converting video mode to NTSC/PAL.		
0	ALARM/SENSOR	Control port for alarm, sensor devices and PTZ camera.		
9	/PTZ			
10	POWER IN	Port for power adaptor.(DC 5A, 12V)		
11	Power switch	Power Switch		

3. SYSTEM FUNCTION

3.1. START

To connect system with camera and power adaptor on the rear panel of system. After system connection is completed, the system itself tests its condition when power is on. The contents of self test are HDD installation status, formatting for new HDD, CD-R/W installation status. Incase, Unexpected power off during recording is checked and system records automatically.

You can install max. two HDDs in the DVR system. (When CD-R/W is used then one HDD is can be used only) The HDD storage capacity and model name is shown on the screen when DVR system recognize the HDD. If the DVR system can not recognize HDD, DVR system does not booting. If the HDD is not recognized, please install the HDD in order. If the problem appears continuously, please contact to A/S center.

If you use new HDD in DVR system, the system asks you to format new HDD or not after recognizing the HDD. If you put the [PLAY] button, the HDD will be formatted. The formatted HDD is not recognized on Personal Computer. Please be notice when you install new HDD.

	If model and quantity of equipped HDD is not shown on HDD test screen, HDD con-
Reference	nection is wrong. In that case, User must check the connection of HDD with system.
	In case, If you use only one HDD in the system, you must confirm that HDD must be
	set to master by jumper. Please check the jumper is set on MASTER. Otherwise,
	system can not boot.
	You can use max. two HDDs in the system, one of then should be set to slave by
	jumper.

RTC (REAL TIME CLOCK) CHIP keeps the system information. If the battery for RTC is discharged, the system sets to default (factory) value again. Please check the Battery. Users see factory value in setup section.

After system finish initial test and set up, the screen will be changed to 9 Split screen status. However, the system has unexpected POWER OFF during recording, the system will be rebooted when the power on, and continued to record automatically.

3.2. MONITORRING

The basic information of system is indicated on the lower part of monitor.



GHT	•	GHZ	iii 🏂 🥥	Gib	
CH4	•	CH 5	٥	CH6) 🏂 🥥
GH7	0	CH8	d¥		
a	≠ 🤮	100%0	07/05	/03	16:01:42

Quad monitoring screen < 4 CH >

9 Split monitoring screen < 8 CH >

A symbol 🥥 indicates record status on current HDD. A symbol 🌮 indicates motion sensor. A

symbol indicates that sensor is set on system and activated. The lower part of full screen in DVR shows whole condition of system. A symbol indicates that DVR monitoring mode. A symbol indicates that system is connected with user using client program on computer through network. A symbol indicates that alarm is set on system and activated. A symbol % indicated that the capacity of HDD used.

A symbol **v** indicates on right of % indicates that 100% of HDD, then it erases data from HDD and records data at the same time. In this condition, HDD has always full of data 100%. [07/03/08 16:01:42] shows time of system.

The system recognizes Video input signal automatically and system shows video source on screen. In case of no input signal, system shows mark on screen. But if the camera has connected with system and shows blue screen, please check the connection between system and cameras.

Press the channel button, the selected channel shows on entire screen. If you want to show 9-split screen, press the [ENTER] button.





9 Split screen

Full screen



1~ 4 CH Quad screen

5~ 8 CH Quad screen

If you press CH1 button twice, screen is changed to Quad screen of 1~4CH, and then press CH5 twice, screen is changed to Quad screen of 5~8CH. (only for 8CH DVR)

4. SETUP

4.1. SETUP STRUCTURE AND INITIAL VALUE

This system has selection menu and initial value composed as below table.

SETUP			FACTORY DEFAULT
	CHANNEL		1
CAMERA	DISPLAY		ON
	BRIGHTNESS,C	ONTRAST, HUE, SATURATION	
	RECORD SPEED)	7 (4CH DVR 15FRAME)
RECORD	RECORD QUALI	TY	NORMAL
	EVENT REC DUI	RATION	10
	RECORD SCHE	DULE	_
		NC	OFF
SENSOR	SENSOR1/2/3/4		DISABLE
	CHANNEL		1
MOTION	SENSITIVITY		OFF
DETECTION	ALARM DURATIO	NC	OFF
	MOTION AREA		_
	BORDER		ON
SCREEN	VIDEO ADJUSTI	MENT	_
	RECORD		ON
	MUTE		OFF
AUDIO	INPUT VOLUME		
	OUTPUT VOLUN	1E	
SYSTEM	HARD	OVERWRITE ENABLED	YES
	DISK SETUP	FORMAT HDD	_
	PASSWORD		4 4 4 4 4 4
	CHANGE		111111
	TIME SET	TIME ZONE	(GMT+09:00)
			[Seoul, Korea Standard Time]
		TIME SET	_
		SYNC. FROM NTP SERVER	NO

		NTP SERVER IP		203.117.180.36
		DAY LIGHT SAVING TIME		NO
	SYSTEM			
	EVENT LIST			-
		ENABLE		NO
			IP TYPE	[STATIC]
			IP ADDRESS	192.168.10.218
			GATEWAY	192.168.10.1
		LOCAL IP	NET MASK	255.255.255.0
			PPPOE ID	_
			PPPOE	
			PASSWORD	-
	NETWORK	PORT		8841
		MAC ADDRESS		00:11:3D:XX:XX:XX
		PASSWORD		111111
		NAME SERVER	ENABLE ON/OFF	NO
			IP ADDRESS	222.231.24.28
			PORT	9990
			DVR NAME	_
		VIDEO		
		QUALITY	HIGH	HIGH
		BAUDRATE	 [115200
		DATA BIT		8
	RS485	PARITY BIT		NONE
		STOP BIT CHANNEL ID MODEL PAN/TILT TEST		1
				1
	PAN/TILT			1
	DEVICE			NONE
				-
	F/W UPGRADE			-
LANGUAGE				ENGLISH

4.2. SETUP MENU

When user presses [MENU] button on front panel, the following screen is shown.

Setup	
Gamera Record Sensor Mottion Detection Sereen Audio System Search Language English Extit	

In the setup menu, user can move to each item and change item by pressing [$\mathbf{\nabla}$, $\mathbf{\Delta}$] button. The setup menus are [CAMERA, RECORD, SENSOR, MOTION DETECTION, SCREEN, AUDIO, SYSTEM, SEARCH, LANGUAGE, and EXIT].

User presses [ENTER] button on setup to access sub menu. User presses [\blacktriangle , \blacktriangledown , \triangleleft , \blacktriangleright] button and [ENTER] button at the sub menu to get desired value. After that, presses [ENTER] button to return previously menu.

4.2.1. CAMERA SETUP

User can change CAMERA SETUP.



4.2.1.1. CHANNEL

CH 1~4 can be selected. User can control the condition of image from camera.

4.2.1.2. DISPLAY

If users want to display camera screen, select as "ON", if not select as "OFF".

4.2.1.3. BRIGHTNESS

Adjust brightness of image. Users can adjust from 1 to 10 levels. The BAR []] goes to left side, it can be changed to dark. The BAR []] goes to right side, it can be changed to bright.

4.2.1.4. CONTRAST

User can adjust screen's contrast. User can adjust from 1 to 10 levels. As the BAR []] goes to left side, the contrast is lower. The BAR []] goes to right side, the contrast is higher.

4.2.1.5. HUE

User can adjust hue level (from 1 to 10). The BAR [|] goes to left side, color tone is changed to pale, The BAR [|] goes to right side, color tone is changed to deep.

4.2.1.6. SATURATION

User can adjust saturation level (from 1 to 10). The BAR []] goes to left side, color tone is changed to pale, As the BAR []] goes to right side, color tone is changed to deep.

4.2.2. RECORD

User can change RECORD SETUP.

Record	
Record Speed Record Quality Event Rec Duration Record Schedule	Nordal 10

4.2.2.1. RECORD SPEED

Record Speed		Record Speed	
Channel -1 DDDDDDDD	15	Channel -1 0000	8
Channel -2 DDDDDDDD	15	Channel - 2 DDDD	8
Channel -B Googoogo	15	Channel -B 0000	8
Channel -4 DDDDDDDD	15	Channel -4 DDDD	8
		Channel -5 000	7
total used frame =	GO (GO)	Channei -6 💷	7
		Channei -7 DDD	7
		Channei -8 DDD	7
		total used frame	= 60(60)

< 4CH >

< 8CH >

User can select FRAMERATE within 60 frames. Users can divide the frame rate according to their importance.

4.2.2.2. RECORD QUALITY

To choose the video quality for recording, go to RECORD QUALITY. Then, use the ENTER (SE-LECT) BUTTON to choose LOW, NORMAL or HIGH. The higher record quality, the cleaner image will be shown during playback. The lower record quality saves more HDD storage space.

4.2.2.3. EVENT REC DURATION

User can select the time of EVENT (sensor / motion) record duration.

4.2.2.4. RECORD SCHEDULE

To schedule recording is based on a 24-hour clock, user can select the time of recording.



User can move cursor to desired time and select the type of recording by using [▲, ▼] button.

The No Record: System will not record data during this period.

The Time Record: System will record data continuously during this period.

The Motion Record: System will record data when the cameras recognize any motion in designated area during this period.

The Sensor Record: System will record data when the systems recognize sensor/alarm during this period.

The Motion + Sensor Record: System will record data when the systems recognize any motion and sensor/alarm.

Press the $[\blacktriangle, \blacktriangledown]$ button can make several record type and time, and press [ENTER] button to make change whole schedule as one recording type and time.

4.2.3. **SENSOR**

Sensor				
Alarm Duration	off			
Sensor-1	Disable			
Sensor-2	Disable			
Sensor-B	Disable			
Sensor-4	Disabie			

4.2.3.1. ALARM DURATION

It indicates how long the alarm lasts after it sets [OFF, 05, 10, 15, 20, 25, 30, CONT]. It sets the alarm duration (in seconds) after alarm is activated. Select "DISABLE" to deactivate sensor recording or if there is no sensor installed in DVR system. To continue the alarm signal on, to select as CONT

4.2.3.2. SENSOR - 1, 2, 3, 4

Each channel has to be set by the type of SENSOR. The initial value is [DISABLE], you can select [NORMAL OPEN TYPE/ NORMAL CLOSE TYPE].

4.2.4. MOTION DETECTION

Select Motion detection. It is available when the system recognizes the movement.

Notion Detection	
Channel	1
Sensitivity	off
Alarm Duration	off
Motion Area	

4.2.4.1. CHANNEL

Select each channel for record.

4.2.4.2. SENSITIVITY

It adjusts the sensitivity of the built-in motion sensor on the DVR system while recording. The higher the number, the higher the sensitivity is. In that case, record can be occurred by small noise.

4.2.4.3. ALARM DURATION

By changing the value in the Alarm duration, you can adjust how long the alarm will last in seconds. User should installed alarm device in the system.

4.2.4.4. MOTION AREA



Follow the direction to select Motion area.

Locates cursor to start point using $[\blacktriangle, \lor, \triangleleft, \blacktriangleright]$ button. After pressing [ENTER] button locates cursor to end point using $[\blacktriangle, \lor, \triangleleft, \triangleright]$ button. Press [ENTER] button again.

[Note] We recommend you to choose motion detection area carefully because only one area can be selected.

[Using the mouse button]

Press left button of mouse and drag mouse to select motion detection area for record.

4.2.5. SCREEN

г

User can select the screen location and the line of quad channel's border.

Sereen	
Border Video Adjustment	On

4.2.5.1. BORDER

You can make the white border line around each channel to appear or disappear by using this option to be on or off.

4.2.5.2. VIDEO ADJUSTMENT

You can move the entire video screen using up, down, left, and right key.

4.2.6. AUDIO

The option to adjust the Audio input/output of DVR system.

Decemped On	Audrio					
Inscored off Autra Off Input Volume	Record Mutte Imput: Voiume	_				

4.2.6.1. RECORD

Make the record "ON" to enable sound recording when a microphone device is attached in AUDIO INPUT port on the system.

4.2.6.2. MUTE

Control the Audio output.

4.2.6.3. INPUT VOLUME

Adjust input volume level of sound.

4.2.6.4. OUTPUT VOLUME

Adjust output volume level of sound.

4.2.7. SYSTEM

In this menu, you can see the information of the hard disk drive installed on the system, change the system password, and adjust current time on the system, initialize system and etc.

System

Hard Disk Setup Password Ghange Time Set Event List Network RS-435 Pan/Tilt Device F/W Upgrade

4.2.7.1. HARD DISK SETUP

Set up Hard Disk Drive condition.

Hard Disk Setup	
overwrite Format HDD	Yes
Total: 283475MB USED: 786MB 113	
[DIISKO] 288475MB STB250324A	

The information of Hard Disk Drive is shown on the screen. TOTAL means the total capacity of HDD, USED means the rate of HDD used.

• OVERWRITE ENABLE: If you choose YES, recording continues. However, recorded data in HDD is erased gradually when HDD has no space to record.

• FORMAT HDD: If you format the hard disk drive, all the recorded data stored on the hard disk drive will be deleted. Remind that the system has no restore option once the hard disk drive is formatted.

When you choose this option, the system will ask you password before formatting. The default password is [111111].

4.2.7.2. PASSWORD CHANGE

Change the password of DVR system.

Password Change				
current Password				
1234567890 - = - qwertyutop[] asdfghjk1;Shtft zxevbnm/Enter				
Password Changed				

You can use a combination of any buttons on the DVR front panel to change a new password. Press [ENTER] button to finish. The changing is finished properly, the message [PASSWORD CHANGED] is shown on the screen.

4.2.7.3. TIME SET

Adjust the current date and time of system.

Ti	me Set
Time Zone [Seoui], Korea Time Set Appiy	(GNT++09:00) Standard time] 2007/08/08 14:58:80
Sync. From NTF NTP Server IP Day light savi	208.117.130.86

• TIME ZONE: You can adjust the current time through the internet time server.

TIME SET: To move the cursor on the screen, [▲, ▼] button on the front panel press [ENTER]
button to move desired date and time and [▲, ▼] to change number.

• **APPLY:** After adjusting the time, you have to move the cursor to APPLY, press [ENTER] button to apply new time information.

• SYNC. FROM NTP SERVER: Connect to internet time server. If not you can not use SYNC. FROM NTP SERVER.

• NTP SERVER IP: Input the internet time server's IP address. The default value is [203.117.180.36]. Do not change the IP address except special occasion.

• DAY LIGHT SAVING TIME: Summer Time can advance the time by one hour from standard time. This function is for user to use day time effectively. "Yes" for Summer time or "No" for Standard time.

4.2.7.4. EVENT LIST

	Evant List	
0e	07/08/08 11:12:03 REC STOP	
02	07/08/08 11:12:04 REG START	
01	07//08//08 04:50:17 Power on	
	Page (01/01)	

EVENT LIST function enables playback by event. The EVENT LIST on menu, it shows all past activities of system operation such as power on/off, recording start/stop, sensor on/off and etc showing recording year/date/time in list. Play by EVENT LIST, using [▲, ▼] button, select the event that you want to playback and press [ENTER] button. It playbacks the recorded video data.

4.2.7.5. NETWORK

You need to set the information regarding to NETWORK. The working about NETWORK setting is need to professional's guide, if not you may not use the Network function. Please be notice that.

Networ	rk Settings
Enabie	Yes
local Ip	
Port	8841
Mac Address	12:54:56:78:9A:BC
Password	222222
Name Server	
Video Quality	Ազի

• ENABLE: You have to set [ENABLE] is [ON], in order to connect to DVR system through Network.

• LOCAL IP: It contains several options to use network. Press [ENTER] button, you can move to lower grade menu.

<IP TYPE> There are three different network connection types. Press [◄, ►] button to change IP TYPE.

If you input PPPOEID and PPPOE PASSWORD, you can get the IP ADDRESS, SUBNET Reference MASK, GATEWAY automatically. You must ask installer IP TYPE before DVR is installed.

	Locai	IP				
IP Type IP Address		0.	0.	()))) ())	17] 0	
Gateway		0.	0.	0.	0	
Net Mask		0.	0.	0.	0	
						DHCP TYPE

[DHCP TYPE] - Press [◀, ▶] button to select [DHCP], then press [MENU] button to show [LOCAL IP] part. Move [EXIT], then select [EXIT & SAVE CHANGE] to finish Setup.

TP Address	0.		0999990 0,	0
getenen Getenen	0.	0.		0
Net Mask	0.	0.		0
PPPOE ID				
PPPOE PASSWORD				

[PPPOE TYPE]



[PPPOE TYPE] - Press [◀, ▶] button to select [PPPOE].

PPPOE ID: Use $[\blacktriangle, \lor]$ button to move [PPPOE ID], then press[ENTER] button to show keypad pop-up window. Use $[\triangleleft, \blacktriangleright, \blacktriangle, \lor]$ button to move desired a number or a character, then press the [ENTER] button.

PPPOE PASSWORD: Use $[\blacktriangle, \lor]$ button to move [PPPOE PASSWORD], then press [ENTER] button to show keypad pop-up window. Use $[\triangleleft, \triangleright, \blacktriangle, \lor]$ button to select desired a number or a character, then press [ENTER] button.

When you finish set-up, press [MENU] button to show [LOCAL IP]. [EXIT & SAVE CHANGES] to finish set-up after you move [EXIT].





[STATIC TYPE]

[STATIC TYPE] - Press [◀, ▶] button to select [STATIC]

IP ADDRESS: If you select IP TYPE as STATIC, you can input the IP ADDRESS yourself. Use [◀, ►] button to move desired position, then press [▲, ▼] button to change a number.

GATEWAY: If you select IP TYPE as STATIC, you can input the GATEWAY yourself. Use $[\blacktriangleleft, \blacktriangleright]$ button to move desired position, then press $[\blacktriangle, \lor]$ button to change a number.

NET MASK: If you select IP TYPE as STATIC, you can input the IP ADDRESS yourself. Use $[\blacktriangleleft, \blacktriangleright]$ button to move desired position, then press $[\blacktriangle, \lor]$ button to change a number.

When you finish Set-up, press [MENU] button, to show [LOCAL IP]. Select [EXIT&SAVE CHANGE] to finish Set-up after you move [EXIT].

• **PORT:** Set [PORT], in order to connect to DVR system through Network, the default port no is [8841].

• MAC ADDRESS: The Mac Address is physical address made by manufacturer in order to using the network. If you change the Mac Address, it may not connect with network.

- PASSWORD: You need the password when you contact to DVR system through network.
- NAME SERVER

The name server collects the changeable network situation.

You can connect with system through network using NAME SERVER.

Reference DHCP or PPPOE TYPE that has static IP can be changed frequently. Therefore, when you connect network by IP, an unexpected obstacle can be happened. In order to avoid above problem, you better use Name which is registered on [DVR Name]



ENABLE: Set name server to use or not.

IP ADDRESS: Set IP ADDRESS of NAME SERVER. Use [◄, ►] button to move desired position and press [▲, ▼] to change number. You must input [222.231.24.28] as a IP ADDRESS.

PORT: Set PORT of Name Server. Use [◄, ►] button to move desired position and press [▲, ▼] to change number. You must input [9990] as a PORT.

DVR NAME: Press [ENTER] button to show keypad pop-up window after you move [DVR NAME]. Use [◀, ▶,▲, ▼] button to select desired a number or a character, then press [ENTER] button.

• VIDEO QUALITY: You can adjust output Video Quality through network.

4.2.7.6. RS-485

RS =48	5
Baudrate Data Bit	115200 8
Partty Bit Stop Bit	Nome 1

BAUDRATE: Adjust the data transmission speed of PTZ camera.

DATA BIT: Adjust data transmission bit of PTZ camera.

PARITY BIT: Adjust data transmission error check bit of PTZ camera.

STOP BIT: Adjust bit which shows the end of data transmission of PTZ camera.

4.2.7.7. PAN/TILT DEVICE

Pan/Tilt Device	
Pan/Tilt Test	บ บ NONE

CHANNEL: Select a camera channel where PTZ camera is connected.

ID: Assign the own ID of PTZ camera.

MODEL: Select a model of PTZ camera.

PAN/TILT TEST: Test PTZ Camera.

4.2.7.8. F/W UPGRADE

The system support Firmware Upgrade through USB host (USB memory stick).

4.2.8. EXIT

	፤ ደናሻዊ	
Extit	& Save Changes & Discard Changes Setup Defauit	

4.2.8.1. EXIT & SAVE CHANGES

Save the changed value and return to monitoring mode.

4.2.8.2. EXIT & DISCARD CHANGES

Return to monitoring mode without saving the changed value. The changed value is not applied to the system.

4.2.8.3. LOAD SETUP DEFAULT

The system menu value will be changed to factory default.

5. RECORD FUNCTION

CH1	•	CH2	i 🏂 🧶	GHB	•
CH4	•	CH15	•	CH6	a ● 第
CH17	•	G #8	μ×		
	≠ 🔒	100%8	07//08/	/08	16:01:42

Channel with • symbol indicate that channel is in record mode. Above picture shows CH 1~7 is in record mode. Information in lower part indicates HDD used and date.

If date is wrong, see (Setup \rightarrow System \rightarrow Time set) to change date.



There are several types of record mode such as No Record, Time Record, Motion Record, Sensor Record, MD + Sensor Record.

White box indicates No Record.

Red box indicates continuous record. Continuous record dose not be affected by sensor input.



Green box indicates motion detection, it is activated by movement.

Yellow box indicates sensor record. Sensor record is activated by sensor detection.

Green and yellow box indicates motion detection and sensor record. One of these is detected then system records image.

6. SEARCH, PLAYBACK AND BACK-UP FUNCTION

6.1. SEARCH FUNCTION

You can find last file by order when you press [PLAY] button. Press [SEARCH] button to find file you desired. When you press [PLAY] button, screen shows below picture. Press [▲, ▼] button to locate desired event. Press [ENTER] button to play image recorded in HDD.

Event List						
08 07/08/08 11:12:08 REC Stop 02 07/08/08 11:12:04 REC Start 01 07/08/08 04:50:17 Power on						
Page (01/01)						

You can search recent 127 events on the event list. Select the [REC START] and playback. If you search the recorded data by time, press [SEARCH] button. Below screen will be shown at the screen.

Time Search						
Start End	2007/03/07 14:39:27					
	2007/08/03 18:40:45 07/08/07 14:89:27 7					
soarching						
Search						

The time on screen shows record start and stop time. You can find the time what you want to check, you can change the number of date and time by using $[\blacktriangle, \forall]$ button and then press [EN-TER] button to playback data recorded.

6.2. PLAYBACK FUNCTION

CH1		CH2		Gie]
CH 4		CH5		ch:C	j
CH7		CH8			
₽	4	100230	07//08/	/08	16:01:42

This is an enhanced playback option, it support playback function while recording. Playback function has several modes as below.

BUTTON NAME	FUNCTION
PLAY/PAUSE	Playback data/ Pause data.
REC	Start record/ Stop to record.
FF	Fast Forward. Speed Options are 3 levels. Press FF button to change play-
	back speed.
REW	Rewind the playback. Speed Options are 3 levels. Press REW button to
	change playback speed.
STOP	Stop playback and return to monitoring mode.

You can playback data using [SEARCH] button or [PLAY] button. The playback mode has PLAY, FF, and REW. The image recorded by EACH MODE can be displayed with QUAD or FULL screen. If you want to change the playback images on screen, use [CHANNEL1~8, ENTER] button.

The basic information of the image recorded is shown in lower part of screen. It shows time of the image recorded, playback speed.

6.3. BACKUP FUNCTION

Our DVR system has enhanced back-up features so that it's possible to transfer to the video data image recorded on the hard disk drive to USB memory stick. The CD-R/W (option item) backup system is also supported

search						
Time Search Event List Backup						
₽	4	100280	07/08/08	16:01:42		

There are two types of backup style. One is USB and the other is CD-RW (option).

Connect USB memory stick to USB socket.

Put blank CD into CD-RW.

Notice The DVR system does not support backup function during recording. If the recording is in processing, please stop recording first, and processing the backup function.
6.3.1. BACK-UP VIA USB MEMORY STICK

In order to save video data, you must playback data recorded. You press [\blacktriangle] button when you find start point to backup and press [\blacktriangledown] button when you find end point to backup. Data volume is shown as [KB] unit. You press [SEARCH] button to backup. If USB storage capacity is lager than the volume of data, it show the message [PRESS (ENTER) TO COPY] on screen. Then, press [EN-TER] button to back-up data.

Backup '	to use drave
Start End Disk availib Copy Size Filename	2007/08/03 16:00:20 2007/08/03 16:01:42 3LE 70272 K3 2560 K3 08181128.VV/F
wite find the second se	
Press (Y900 ot (Clethed)

NoticeCheck the storage capacity of USB memory stick in advance.If the volume of data is larger than USB storage capacity, it shows the message [CA-PACITY IS NOT ENOUGH] on screen.(Press the [MENU] button to cancel, and secure the enough storage space and con-tinue to backup)

6.3.2. BACK-UP VIA CD-R/W (OPTION)

In order to save video data, you must playback data recorded. You press [▲] button when you find start point to backup and press [▼] button when you find end point to backup. Data volume is shown as [KB] unit. You press [SEARCH] button and press [REC] button to backup.

If the data size is bigger than 600MB, it shows the message as "DATA SIZE IS BIG TO COPY" on the screen. (Blank CD's maximum storage capacity is about 600MB. The common blank CD can be used by one time. Therefore, used CD can not be used in DVR system. If you have more data to need back-up, please use another blank CD.)

B	BACKUP TO CD
Start End Desk avail Gopy Seze Fillename Wretteng to Teme ro re	2500 KB 20070828_1787.VVF CD
PRES	s (tenter) to copy

CD-R/W is option item. If the CD-R/W is not installed in the system, this function is Notice not available. Please inquire the seller.

You must use the [CD-R] type of CD on CD-R/W. If you use other type of CD, the back-up is not available. Please be notice that. It does not support the Multi-session. If the data size is bigger than 600MB, it shows the message as "DATA SIZE IS BIG TO COPY" on the screen.

(Press the [MENU] button to cancel, and assign the desired back-up part again.

6.3.3. USE OF BACK-UP FUNCTION

You can select desired time period to back-up data recorded. [TOTAL] indicates total time of data in DVR. [BACKUP] indicates desired time of data recorded.



Press $[\blacktriangle, \lor]$ button to move [START], then use $[\triangleleft, \triangleright, \blacktriangle, \lor]$ button to select desired date and time. Press [MENU] to return precious condition.



Press $[\blacktriangle, \checkmark]$ to move [End], then use $[\triangleleft, \triangleright, \blacktriangle, \checkmark]$ button to select desired date and time. Press [MENU] button and $[\blacktriangle, \checkmark]$ button to finish set-up. Screen shows total capacity of data as [KB] unit. Press [SEARCH] button to select USB backup, then screen shows the information of USB memory stick. If USB storage capacity is larger than the volume of data, it shows the message [PRESS (ENTER)TO COPY] on screen. Then, press [ENTER] button to backup data.

BACKUP TO	usb dritve
end 200 Disk Availible Gopy Size Filename	07/08/08 16:00:20 07/08/08 16:01:42 70272 K3 2560 K3 08181128:VVF
WRITTING TO USB TIME RO REMAIN	10 Secs TTERD TO COPY
אובט ממבנוקו	

If the volume of data is lager than USB storage capacity, it shows message [CAPACITY IS NOT ENOUGH] on screen. Please check first the USB memory space and backup before backup the larger volume data.

7. FIRMWARE UPGRADE

The system support FIRMWARE UPGRADE via USB memory stick.

F/W Upgrade	
Gurrent Ver: 0.75 New Ver: 0.85	
Press [Play] Upload, [Sto	
	7] Ganger

(SETUP -> SYSTEM -> F/W UPGRADE) Download the upgrade FIRMWARE file via USB memory stick. And then connect it into USB socket. First press [MENU] button and move to [F/W UP-TRADE].

[4CH DVR F/W → FWVX4TFN.FW2, 8CH DVR F/W → FWVX8TFN.FW2]

If the system recognizes the USB memory, it shows the DVR firmware version and new firmware version on screen. Press [PLAY] button to upload firmware. If you stop the upload, press [STOP] button.

F/W Upgrada			
Curf New	ont Vor: Vor:		
ር ៩ៅក	inweire Up1	oadting]	

The upload is in processing normally, the message [FIRMWARE UPLOADING...] is showed on screen. The uploading is finished, the system will be rebooted.

After system is rebooted, the initial screen shows the new firmware version. Please check the firmware version on the top of screen.

Notice If the system is recording, you can not process the FIRMWARE UPGRADE. Please check the status of recording, if the recording is on stop recording and upgrade FIRMWARE.

8. PTZ (PAN/TILT-ZOOM) CONTROL

This supports PTZ function via RS485 serial interface. Press the [PTZ] button on monitoring mode to enter PTZ control mode. PTZ control buttons are described at the table as below.

BUTTON	Description
PTZ	Enter/Exit PTZ control mode.
UP	The camera moves UP.
RIGHT	The camera moves RIGHT.
DOWN	The camera moves DOWN.
LEFT	The camera moves LEFT.
MENU	"ZOOM IN"
SEARCH	"ZOOM OUT"
CH1~8	Select the camera ID for PTZ control. The camera ID is the
(Select PTZ camera)	same as channel No.

Press [PTZ] button, the PTZ control menu will be appeared on screen.

At present, camera is not chosen, press [CH1~8] button each then, correspond camera is socket.

If the PTZ camera is connected to CH1, select CH1 using channel button, press [▲, ▼, ◀, ►, MENU] button to control the camera. Press [PTZ] button to exit.

9. HOW TO USE A MOUSE

You can use a mouse to set DVR and playback data record. First of all, confirm connection between PS/2 mouse and DVR. Otherwise, DVR cannot recognize a mouse.

Set DVR using a mouse

Setup window will be shown when you click right button of mouse at viewing mode. If you move mouse point on menu screen, purple color box is moved. You select menu and click left button of mouse to access menu desired.

At the menu, in order to change setting value, click left button of mouse on [◀, ▶] icon. After setting is finished, you click right button of mouse to exit from menu.

Playback data using a mouse

You move to [Setup \rightarrow Search] or [Setup \rightarrow System \rightarrow Event list] and you can playback data desired. If you click right button of a mouse during playback, then you can easily control a icon on the left side of lower part. When you find starting point of date for backup, press [\blacktriangle] button to select starting point. Playback goes to ending point for backup, then press [\checkmark] button to select ending point. Click [USB] or [CD] to move backup screen, then execute backup.

- Advanced reservation record using a mouse

You can record desired time period using a mouse.

Move to [Set-up ->Record ->Record Schedule] and locate a mouse at desired time period and date. Click a mouse to backup data.

- Control viewing screen using a mouse

You can magnify image screen using a mouse. At the viewing screen, if you click left button of mouse twice (double click), desired channel screen is changed to full screen. Double click again, and then go back to previously screen.

10. CLIENT PROGRAM (8CH -Vx8TFN2 Viewer, 4CH- Vx4TFN2 Viewer)

Our system comes with software [Vx8TFN2 Viewer] for remote monitoring, recording, DVR controlling or playback of backup video data on computer.



< PLAYER MODE>

<VIEWER MODE>

When you execute a program then, icon is shown on the right side of lower part. Locate a mouse on the tray icon then, press right button of a mouse to show menu for control.





10.1. PLAYER MODE

If you want to see the image through the PC via back-up devices, follow below instructions.

10.1.1. PLAYBACK METHOD

Connect the USB memory stick with PC, put CD to CD/DVD Drive of PC. Activate the client program [Vx8TFN2 Viewer or Vx4TFN2 Viewer]

Click the [Player] icon on the top of the client program.



Use mouse left button to click on left side-bottom of player. Press mouse right button to choose [Open file] on player program.

			643			ttil-	50	
:H1		CH2	Cł	13		en File	F2	
	Open			? 🗙		en Disk		
			1.0			port		
	Look in:	SIMHWASUB (J:)	- • •		Clo	ise	F4	
	2007-04			2007-04VVF	✓ She	ow Time		
14	2007-04- ,			2007-04VVF		vays On Top		
	2007-04			2007-04VVF		.a,s on top		
	2007-04			01010129.VV	Pla	yback		
	2007-04	VVF		🖬 03231717.VV	Caj	pture		
	<	101		>	Au	dio		
17	File name:	2007-04VVF		Open	Ful	l Screen		
	Electronic terror			Cancel	Ma	ximize		
	Files of type:	All Files (*,*)	<u> </u>		Asp	pect Ratio		
		C Open as read-only		1	Spl	it Mode		
-	1.004				Ор	tions		
RE	ADY			Ð	Ab	out Viewer	F1	

When pop-up windows is shown as below you find data backup.

The backup file which is from DVR system, are save as *VVF or *NVF format. Open the video stream file what you want to playback.

The player shows the video image files which is selected.



10.1.2. PLAYER MENU

10.1.2.1. PLAYBACK

The playback menu has Play, Play Reverse, Pause, Fast Forward, Fast Rewind, Next Frame, Previous Frame, Speed Normal, Speed Up and Speed Down function. These function buttons are arranged in bottom of player program.

Reference Above functions can be controlled by shortening key. See [10.1.2.9 button function] for more details.



10.1.2.2. AUDIO FUNCTION

Control the Audio Volume.

You can control the option [MUTE ON/OFF].



10.1.2.3. Full Screen

If you click Full Screen, you can see screen as a full screen or type [Alt + Enter]. Double click upper part of program, then screen is magnified.



10.1.2.4. Aspect Ratio

You can adjust the screen size as [640x448] or [640x544].



10.1.2.5. Split Mode

The Split mode can be changed to 1ch full screen, 4ch Quad screen, 9ch split screen.



10.1.2.6. Option

Play repeat, date and time format, the folder saved the capture screen of moving picture are changeable.

General item

Viewer Player 🖓 Viewer		Options General	×
Chill 2007/05/08 16:28:49	Player NetViewer Open File F2 Open Disk Export Close F4		I Use DirectDraw
CH4 2007/04/08 16:28:48	Show Time Always On Top Playback Capture Audo Audo	On screen display date/time format %Y/%m/%d %H.%M.%S	2007/03/14 15:15:53
CH7 2007/05/03 16:23:49	Full Screen HSB CH9 Maximize Aspect Ratio > Split Mode >	Path for still capture	Browse
II PAUSE 2007/0	About Viewer F1		OK Cancel

Always on top: Highest level on window

Use DirectDraw: Use applied program interface (API) included in Direct X.

Show playback time: Set to show playback time or not on screen.

Repeat playback: Repeat Playback

On screen display date/time format

Set the date/time format on the screen.

Path for still capture

Set the path for still capture.

J:05071409.WVF	Options 🔀
Player Player	General
Call 2007/02/02 36:22:40 Player 68 Call 2007/02/02 36:22:46 Notifiever Notifiever Player 68 Call 2007/02/02 36:22:46 Open File F2 Open File F2 Cold 2007/02/02 30:22:46 Open File F2 Open File F2 Open File F2 Cold 2007/02/02 30:22:46 Vold 20:22:46 Vold 20:22:46 Vold 20:22:46 Chife S2007/02/02 30:22:46 Vold 20:22:46 Vold 20:22:46 Vold 20:22:46	 □ Always on top (Δ) □ Use DirectDraw □ Show playback time (D) □ Repeat playback (R)
Always On Top Playback Capture Audio	On screen display date/filme format %Y/%m/%d %H:%M:%S 2007/03/14 15:15:53
CH7 2007/05/03 16:23:49 Full Screen 40 CH9 Maximize Aspect Ratio Split Mode CH9	C:WxCapture Browse
II PAUSE 2007/05 Exit Ak+F4 Image: Constraint of the constraint of	OK Cancel

10.1.2.7. Export

Save video data backuped as AVI format on computer.

J:105071409.VVF		Expert To AVI	
CHI 2007/05/08 18: 98: 49	NetViewer Open File F2 Open Disk Export AVI (Audio-Video In Close F4	010 020 <th>Audio Browse Browse</th>	Audio Browse Browse
CH7 2007/05/03 16:23:49	Aways On Top Playback Capture Audio Full Screen Maximize Edge CH9	Progress . Vider Compression Concension Concension	0%
II PAUSE 2007/05	Acpect Ratio Split Mode Options About Viewer FI Exit Alt+F4	Company 2.49	cancel

Select video data backuped on [Input File] and Select a place and a name of file for save on [Output File]. Select Compression type on [Compression Select] and click [OK]. Click [Export Channel OK], then save process is finish as pictures shown. Image file (AVI) is saved by channel.

Export To AVI	Export To AVI
Export Channel P: P: P: P: P: P: P: P: P: P: P Input File	Export Channel アニアシアシアィアゥアゥア・アップ P Autoo Input File
C WaCaphine0388_07101328 VVF Browse	G MaGaphan/USB_07101728.VVF Browne
Output File	Output File
CTMCachirelUBB_071017287M Browse	GW/GastumUSB_07101728.AV/
Compression	Compression
Indeo®video 5.10	Indexe video 5.10 Vx8TFN2Viewor X
Progress 10%.	Progress Door Complete 99%.
OK	OK

10.1.2.8. Close Viewer

As shown below, you can click the [EXIT] or type [Alt+ F4] on keyboard to close the program. You can click [X] button on the top-right side of program to close the program.



10.1.2.9. BUTTON FUNCTION

You can click below buttons on the button of program to operate easily.

Below table shows the icon function.

ICON	SHORTENING KEY	FUNCTION	
	F2	Open and play video file.	
	R	Rewind.	
	В	Play Reverse.	
	Z	Go one frame backward and Pause.	
	Ρ	Pause.	
	Х	Go one frame forward and PAUSE.	
	G	Playback.	

	F	Fast Forward.
	_	When you click this button, it will take a single frame of video im- age while playback and then it will automatically save the image. (BMP format) into the local PC directory (Initial folder setup : "C:\VxCapture")
	_	View in 1-channel full screen mode.
⊕	_	View in 4-channel screen mode.
	_	View in 8-channel screen mode.
•	-	Adjust volume or enable speaker sound ON/OFF.

10.2. VIEWER MODE

You can monitor DVR at the viewer mode through network and control DVR.

10.2.1. CONNECT VIEWER NETWORK

If you want to connect monitoring screen and control system through VIEWER program, check the network setting connection between system and PC should be good.

Activate the client program [Vx8TFN2 Viewer]

Click the icon [Viewer] on the top of client program.

🛥 Viewer	
Player 😡 Viewer	

If you want to choose DDNS service, [SYSTEM -> NETWORK -> NAME SERVER] should be set as [ENABLE ON] in advance. You draw up [IP ADDRESS], [PORT] and [DVR NAME (DVR ID)] of DDNS Server and save it. If [DDNS] of DVR does not in accord with [DDNS configuration]of VIEWER, then connection will be failed. In this case, you input DDNS IP ADDRESS (222.231.24.28), PORT(9990) and DVR NAME(any character or number)

Click the button on the bottom-left of VIEWER program or [L] key. Click mouse right button and select [Connect]on menu.

The name of [Login] box will be pop up, input the [IP address, Port, Password] on the pop up box. Press [Login] button to connect with DVR.

Viewer Player Player Viewer	Player V NetViewer	
	Connect	
Login 🔀	Dvr Control Audio Local Recording	> > >
IP address 192.168.1.116 Port: 8841 Password: ****** Login Cancel	Always On Top Full Screen Maximize Aspect Ratio	Þ
	Options About Viewer Exit	F1 Alt+F4

If you want to use DDNS service, check [Use dynamic ip service] box, input the DVR ID and PASSWORD registered on DVR system.

Login	X
	🔽 Use dynamic ip service
DVR ID:	HONG
Password:	*****
	Login Cancel

10.2.2. VIEWER MENU

10.2.2.1. DVR Control

Dvr Control Audio Local Recording		Pause	
	•		
		Rewind Play	
Always On Top Full Screen Maximize		Fast forward Stop Record	10 PRIME RYSH
Aspect Ratio	•	CH1	
Options About Viewer F1		CH2 CH3 CH4	oci Pin'Matte Ryani
Exit Alt+F	4	CH5 CH6	and and the -
СН8		CH7 CH8 ALL	
SAVING PRIMATE KY	514	Up Down	-
4% ⊂4⊂5⊂5⊂7⊂3	.0	Left Right Enter	:10:22
	Full Screen Maximize Aspect Ratio Options About Viewer F1 Exit Alt+F CH8	Full Screen Maximize Aspect Ratio Options About Viewer F1 Exit Alt+F4 CH8 Award panket: Real 4 % 0	Full Screen Scop Maximize Record Aspect Ratio CH1 Options CH2 About Viewer F1 Exit Alt+F4 CH8 CH6 CH8 AlL Swinse: Prover Row Up Down Left 4 % O Left Right

Control the DVR system through client program.

The DVR control function has Pause, Rewind, Play, Fast Forward, Stop, Record, All, Channel 1~Channel 8, Up, Down, Left, Right, Enter, Menu and Time Search. Buttons are in the bottom of program.

Reference Above functions can be controlled by shortening key. See [10.2.2.8 button function] for more details.

10.2.2.2. Audio function

Control the Audio Volume.

You can control [MUTE ON/OFF] during playback.



10.2.2.3. Local Recording

You can save the video stream of VIEWER on PC. Click the [Local Recording-Start Local Recording] menu then start to save. Image Click the [Stop Local Recording] menu then stop to save image.



Video image file saved will be saved to directory selected in Option. (Default Directory: C:\VxCapture). If you want to playback the file, switch the mode from [VIEWER] to [PLAY] mode.



10.2.2.4. Full Screen

If you click Full Screen, you can see screen as a full screen or type [Alt + Enter]. Double click upper port of program, then screen is magnified.



10.2.2.5. Aspect Ratio

Adjust screen size.

You can choose [640 X 448] or [640 X 544] size.



10.2.2.6. OPTION FUNCTION

You can change the Repeat playback, connecting try time, auto reconnection, and folder that saves video scream.

GENERAL OPTION

Sever	Network Options
Player NetWewer Disconest Dvr Control Audo Local Recording Aways On Top Full Screen Maximize Aspect Ratio Othoms	General Image: Use DirectDraw Image: Auto Reconnection (C) Image: Use DirectDraw Image: Repeat playback (R) Connection Timeout: Image: DDNS configuration Image: Port IP: [222.231.24.28
About Viewer F1 Exit Ak+F4 Exit Ak+F4 Ait + F4 Ak+F4 Ait - F1 F1 Exit Ak+F4 Ait - F1 F1 Ait - F1 F1 Exit Ait - F1	Path for recal recording CWxCapture Browse OK Cancel

Always on top: High level on window.

Use DirectDraw : Use applied program interface (API) included in Direct X.

Auto Reconnection: Try to connect with DVR when connection is failed.

Repeat playback: Repeat playback.

Connection Timeout: Set time for connection.

DDNS configuration

IP: Input the DDNS server address. IP ADDRESS should be [222.231.24.28]

Port: Input the DDNS port. DDNS PORT should be[9990]

Vx8TFN2 Viewer	Network Options
Player Viewer Player Player Player NetViewer Disconnect Disconnect Disconnect Audio	General ☐ Always on top (A) ☐ Use DirectDraw ☑ Auto Reconnection (C) ☐ Repeat playback (R) Connection Timeout 7 sec
CII4 Always On Top Full Screen Maximize Aspect Rabio Options	DDNS configuration IP: 222.231.24.28 Port: 9990
About Wewer F1 Ext Ak+F4 4% 07/05/07 15:14:38	Path for recal recording CWxCapture Browse
	OK Cancel

Path for recall recording

Designate directory for saving image in computer.

Vx8TFN2 Viewer	Network Options
Player 😡 Viewer	Ceneral
CH1 Player VetVewer Disconnect Disconn	Contain Always on top (A) Use DirectDraw Auto Reconnection (C) Repeat playback (R) Connection Timeout: DDNS configuration IP: 222.231.24.28 Port: 9990
CH7 About Viewer F1 Ext: Ak+F4 4% 07/05/07 15:14:38 Ø connected C1C2C1C2C2C3 (← (C1C2C1C1C2C2C3) (← (C1C2C1C2C2C3) (← (C1C2C1C2C2C3) (← (C1C2C1C2C2C3) (← (C1C2C1C2C3) (C1C2C1C2C3) (← (C1C2C1C2C3) (← (C1C2C1) (C1C2C3) (C1C2C1) (C1C2C3) (C1C2C1) (C1C2C3) (C1C2C1) (C1C2C3) (C1C2C1) (C1C2C3) (C1C2C1) (C1C2C3)	Path for recal recording CWxCapture Browse OK Cancel

10.2.2.7. Close Viewer

As shown below, you can click the [EXIT] to close the program, or press the key [Alt+F4] to finish the program. You can click [X] button on the top-right side of program to close the program.



10.2.2.8. BUTTION FUNCTION

You can click buttons on the bottom of program to operate easily. Below table shows the icon function.



ICON	SHORTENING KEY	FUNCTION
()	L	Connect /Disconnect DVR.
	G	Play/Pause.
	R	Rewind.
	F	Fast Forward.

	S	Stop.
REC	С	Record.
($\begin{array}{c} \uparrow \downarrow \\ \leftarrow \rightarrow \end{array}$	Up, Down, Left, Right.
۲	Enter key	Enter / Select
MENU	М	Menu / Exit
9	_	Time Search.

11. SPECIFICATION

< 4 CH DVR >

Product	BASIC	NETWORK	Remark	
OS	Real-time OS			
Input channel	4 Channel			
Output channel	2 Channel	2 Channel		
VGA	1 Channel			
Audio input channel	1 Channel			
Audio output channel	1 Channel			
Video Type	NTSC/PAL			
Record Resolution	640 * 224 Pixel(NTSC) /	640 * 272 Pixel(PAL)		
VGA Resolution	1024 * 768			
Monitoring Speed	240 FPS(NTSC) / 200 FP	S(PAL)		
Depend Creed	60 FPS/4CH(NTSC 15 F/	CH)		
Record Speed	50 FPS/4CH(PAL 12.5 F/	CH)		
Compression Format	MOTION JPEG/ 8~20KB/frame			
Transmission	MPEG4			
Display Mode	1 / 4 Screen			
Recording Mode	Continuous /Motion /Sensor /Scheduled			
Motion detection	ON/OFF control, and selectable motion sensitivity			
Sensor/Alarm	4 CH Input / 1 CH Output / Alarm display			
HDD Capacity	Max. HDD 2			
PTZ Control	PELCO-D (RS485)			
Network protocol		ТСР		
DHCP		Support		
Lloor Interfood	Key button, Remote	Key button, Remote		
User Interface	Mouse	Mouse		
ВАСКИР	USB, CD-R/W(Option)			
MICROSOFT				
WINDOWS SURPORTS	VIEWER			
Power	DC12V, 5A			
Operation Temperature/Humidity	y 5~40℃/20~80% RH			

< 8CH DVR >

Product	BASIC NETWORK		Remark
OS	Real-time OS		
Input channel	8 Channel		
Output channel	2 Channel		
VGA	1 Channel		
Audio input channel	1 Channel		
Audio output channel	1 Channel		
Video Type	NTSC/PAL		
Record Resolution	640 * 224 Pixel(NTSC) / 6	40 * 272 Pixel(PAL)	
VGA Resolution	1024 * 768		
Monitoring Speed	240 FPS(NTSC) / 200 FPS	S(PAL)	
	60 FPS/8CH(NTSC 7.5 F/	CH)	
Record Speed	50 FPS/8CH(PAL 6.25 F/0	CH)	
Compression Format	MOTION JPEG/ 8~20KB/frame		
Transmission	MPEG4		
Display Mode	1 / 9 Screen		
Recording Mode	Continuous /Motion / Sensor / Scheduled		
Motion detection	ON/OFF control, and selectable motion sensitivity		
Sensor/Alarm	4 CH Input / 1 CH Output / Alarm display		
HDD Capacity	Max. HDD 2		
PTZ Control	PELCO-D (RS485)		
Network protocol		ТСР	
DHCP		Support	
l la constanta de la	Key button, Remote	Key button, Remote	
User Interface	Mouse	Mouse	
BACKUP	USB, CD-R/W(Option)		
MICROSOFT WINDOWS			
SURPORTS	VIEWER		
Power	DC12V, 5A		
Operation Tempera- ture/Humidity	5~40℃/20~80% RH		

12. RECOMMENDED HDD/CD-RW

12.1. RECOMMENDED HDD

Recommended Hard disk maker	Seagate
	Samsung
	Hitachi
Maximum Capacity	Up to 500GB

12.2. RECOMMENDED CD-R/W

Recommended CD-R/W maker	Maker	LG electronics
	Model	GCE-8527B(black)
	Media	52X CD-R

13. WARRANTY AND DISCLAIMER

The manufacture does not assume any responsibilities related to the sales of the unit and does not endorse any third party to represent the manufacturer in any way. The warranty does not apply to malfunctions of the unit or its parts resulting from any accident, negligence, misuse, or misapplication. Also, the warranty does not include accessories or components that the manufacturer does not supply.

The warranty is valid for the one year from the data of purchase. However, the malfunctions listed below are not covered by the warranty even during the warranty period. Repair services for the malfunctions below will be available, but with applicable charges.

If any malfunctions occur due to carelessness of the user;

If a user disassembles or replaces any parts of the unit without permission;

If any power other than the rated power is connected to the unit;

If malfunctions occur due to natural disaster (fire, flood, tidal wave, etc.); or,

If consumable parts/items are to be replaced;

The warranty specified herein is only for the units delivered.

Consumers will be charged for examination and repairs after the expiration of the warranty period (one year).

A fee will be assessed for repairs or examination except within the scope of warranty specified herein even during the warranty period.

For out-of-warranty services, please contact your local vender or service center.

Any work by unauthorized personal will not be covered by warranty

SURETY CERTIFICATE

PRODUCT OR MODEL NAME		HS-400STB, HS-401STN
		HS-800STB, HS-801STN
PURCHASE PLACE		
PURCHASE DATE		
GUARANTEE PERIOD		1 YEAR FROM PURCHASE DATE
CUSTOMER	NAME/TEL	/
	ADDRESS	