VGuard N Series 16/8/4 Channels Embedded Net DVR **User's Manual**



Please read this user's manual carefully before you use this system. Please keep a user's manual handy when needed.







警告

語句解設備實施於帶中或朝潤的環境中以避免火災或電線短路之發生。

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請勿打開邦畫·本設備內部逐無任何使用者應負實維修保養之零件。 有有任何相關問題請認向維修施格人員詢問。

Note:

This equipment has been tested and found to comply with the limits for a Class. B digital device, pursuant to Part 15 of the PC Bales. These limits are designed to provide resonable protocion. This equipment generates, uses and can relatively adult frequency energy and, if not incalled and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not accord in a particular intraflation IT this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment of and on, the sorr is environaged to tay to convert the interference by one or more of the following measures:

-Personator or redount the receiving automa.

Increase these puration between the equipment and receives.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced author/IV technicism for help.

The changes or modifications not expressly approved by the party responsible for compliance could veid the user's authority to operate the equipment.

Declaration:

All the specification mentioned in this user's manual is based on the products when this user's manual is published. Manufacturer owns the right to alter or change this product with or without notification. All the products specification will base on the product itself.

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Chapter 1: System Specification

VGuard N series is a new generation embedded DVR system. This system is using the most advanced H.264 compression technique. This technique not only holds the best recording quality and high compression rate. Under the same hard disk sizes, it can save longer video images and audio sounds. **VGuard N series** embedded System uses the super high speed DSP IC (Digital signal Processor) for its center of compression. It records by using hardware images compression, of this, it can reach a maximum 30fps (NTSC) or 25fps (PAL) recording speed per channel. Playback of the recording is using the same technique to reach its most efficiency.

1.1 System Hardware Specification:

- 1. Video In (BNC Jacks):
 - VGN16C-HRT4: 16 BNC Video In Jacks
 - VGN8C-HRT4 / VGN8C-RT4: 8 BNC Video In Jacks
 - VGN4C-RT4: 4 BNC Video In Jacks
- 2. Video In (RCA Jacks):
 - VGN16C-HRT4 / VGN8C-RT4: 8 RCA Video In Jacks
 VGN8C-HRT4 / VGN4C-RT4: 4 RCA Video In Jacks
- 3. Monitor Output: 1 BNC Jack
- 4. Audio Out: 1 earphone output Jack
- 5. VGA Output: Supports standard VGA D-SUB output jack. Resolution 1024 x 768 at 75Hz.
- Alarm Input (Optional): 4 input terminals, Detectable loop circuit open / short.
- 7. Relay Output (Optional): 4 Output control terminal, AC 125V/12A; 250V/7A; DC 30V/7A
- 8. Hard Disk: Support 2 IDE Hard disk
- 9. Backup Function: Supports 2 USB, to connect to USB disks.
- 10. Ethernet: RJ45 (100/10Mbps Ethernet)
- 11. Power: AC115V/60Hz/4A, 230V/50Hz/2A (Typical)
- 12. Weight: 4.0Kg / 5.0Kg (Net /Gross Weight)
- 13. Size: 20cm x 32cm x 19cm (Length x Width x Depth)

1.2 System Function Specification:

- 1. Technology: H.264 Hardware real time compression /decompression
- 2. Resolution: 704 x 480 (NTSC) / 704 x 576 (PAL)
- 3. Monitoring Speed:

VGN16C-HRT4: 16 channels 480fps(NTSC)/16 channels 400fps(PAL)

VGN8C-HRT4: 8 channels 240fps(NTSC)/8 channels 200fps(PAL)

VGN8C-RT4: 8 channels 240fps(NTSC)/8 channels 200fps(PAL)

VGN4C-RT4: 4 channels 120fps(NTSC)/4 channels 100fps(PAL)

4. Recording Speed:

VGN16C-HRT4: 16 channels 240fps(NTSC)/16 channels 200fps(PAL)

VGN8C-HRT4: 8 channels 120fps(NTSC)/8 channels 100fps(PAL)

VGN8C-RT4: 8 channels 240fps(NTSC)/8 channels 200fps(PAL)

VGN4C-RT4: 4 channels 120fps(NTSC)/4 channels 100fps(PAL)

- Image Compression Rate: Dynamic Compression Rate = 40:1~240:1 (Automatic Changes depends on the image's moving situation).
 Average Dynamic Compression Rate: 40:1~2400:1
- 6. Recording Quality: 10 Levels Adjustment available
- Audio Recording: 24Kbps ADPCM recording mode. Synchronize with Video Recording.
- 8. Live Audio Monitoring: Support Live Audio Monitoring.
- 9. Monitor Display: Full Screen, 8 split window display, auto scan, 4 split window/ 2 pages auto scan.
- 10. Internet Function: Supports TCP/IP functions. Supports Internet / LAN remote monitoring.
- 11. Multi-task Capability: Supports Recording, Playback, Remote Monitoring and Live Monitoring at the same time.
- 12. Sensor Input Trigger Alarm
- 13. Video Lost Trigger Alarm
- 14. Motion Image Trigger Alarm (maximum of 4 motion detection areas per channel)
- 15. Alert Alarm: Sound Alert and relay output
- 16. Alarm Record Function: The system will start recording with 3-5 seconds pre-alarm after alarm triggered.
- 17. Alarm Log: Record the alarm activated time, alarm source, also select

- the time from the alarm log directly for playback.
- 18. Playback (Search) mode: Playback directly by selected time, search by saved time log, and by alarm log.
- 19. Playback Speed mode: Fast Speed forward x2, x4, x6, and x8. Slow Speed forward /2, /4, /6, /8. Single frame playback, Paused, Forward Skip Playback, Reverse Skip Playback.
- 20. Playback Display: Full Screen display, 4 split windows display.
- 21. File Backup Function: Supports USB disk for backup, or retrieving files from appropriative remote software.
- 22. Playback backup files: Playback using VG Player (V5.4 or above) directly from a computer.
- 23. Remote monitoring software: Installed ChateauRT4 (V5.0 or above) on a PC for Remote monitoring or recording.
- 24. Firmware Update: Firmware update available from our website at www.vguard.net Update/ add / alter the software through USB devices.

1.3 Package Content:

Please be cautious when opening up the package to avoid damage to the system.

- One VGuard N Series DVR System
- 2. One Power Cable and IDE Cable
- 3. One User's manual
- 4. One CD-ROM
- 5. 2 IO connections Jack. (Optional with VGIO)
- Connection cables:

VGN16C-HRT4: 3* BNC jacks video connection cables. 1* RCA jacks audio connection cables.

VGN8C-RT4: 1* RCA jacks audio connection cables.

When you found any shortage item when opened, please contact immediately with the agents, sale representatives or customer service department.

Chapter 2: System Introduction:

2.1 System Front Panel:



System's front panel includes 'Numbers and Display control Area', and 'Control Button area'. All button arrangements as above. This is mainly used to operate the main system. The functions are as followed:

■ Number 1-8 Buttons

When the number button is press under recording mode, the number of camera displayed will be according to the number of button pressed. Under 16 channels model, to select the enlarge images for camera 9-16, you will require to use the split window button (number 9), and switch to the split window images for camera 9-16, When under setting mode, the number button is for setting of number 1-8.

■ Number 9 Button

When this button is press under recording mode, depends on the different model, camera display window will be 4 split windows (VGN4C-), Eight Split windows (VGN8C-) and 16 split windows (VGN16C-). When under setting, this button is for setting the number 9.

Number 0 Button

When this button is press under recording mode, the display images will be: Auto Scan for a single image, or 4 split windows or 8 split windows in different pages. Camera numbers depends on the pages.

■ Power Indicator (* •)

When power is on, this indicator will shown as green.

■ Recording Indicator (**)

When system is under recording mode, this indicator will be shown as red

Playback Indicator (* *)

When system is under playback mode, this indicator will be shown as vellow.

Record/ Switch to Recording Display Button:

- 1. When system not under recording status, press of this button will activate recording function immediately.
- 2. When both recording and playback is functioning: Switching back to the recording images. Detail information will be described later on.

Note: System's defaulted is activating recording. You will require to setup "Stop Recording" under system setup to stop recording.

■ Setting / List Button

- 1. Under system setting: Enter System setting, Save setting.
- 2. Under playback Operation: Enter Date list mode for playback
- 3. When activate PIP sub-window: Entering the adjustment of PIP sub-window location, Save PIP sub-window location.

■ Leftward Button / Playback Backward

- 1. Under normal operation: Move selection leftward, Go to last page.
- Under playback operation: For playback backward. Each backward 160 frames
- 3. When adjusting PIP sub-window: Move the PIP sub-window to the left.

A/M Upward button / Step Playback / Pause Playback

- 1. Under normal operation: Move selection upward
- Under playback operation: For step by step playback. Playback of 1 frame then pause playback.
- 3. When adjusting PIP sub-window: Move the PIP sub-window to the up.

■ ► Rightward Button / Playback Forward / Output Control

1. Under normal operation: Move selection rightward, Go to next page.

- Under playback operation: For playback forward. Each forward 160 frames
- 3. When adjusting PIP sub-window: Move the PIP sub-window to the right.
- Not under playback or setting mode: Active output control button. This
 will display relay output status, also can stop playing alarm sound.
 Detail information will be described later on.

■ Select / Backup Button

- 1. Under normal operation: This is for selection and confirm button to select and confirm the correct setting.
- Not under playback or setting mode: To activate backup file button.
 Backup the files from system hard disk to USB disk/device, by using the playback software VG Player (V5.4 or above) for playback of the file from normal PC. Detail information will be described later on.

■ Playback Button

- Under normal operation: To activate playback function. Selection of the playback files for playback. Detail information will be described later on.
- 2. When both recording and playback is functioning: Switching back to the playback images. Detail information will be described later on.

■ Subtract 1 / Next / Slow Speed Playback

- 1. Under normal operation: Subtract 1 when setting numbers or next one selection button.
- 2. Under playback mode: Playback speed will be changes each time you press the button to $1/2 \rightarrow 1/4 \rightarrow 1/6 \rightarrow 1/8$ slow speed playback

■ V Downward Button / PIP Function

- 1. Under normal operation: Move selection downward
- When both recording and playback is functioning: to activate PIP functions; To display both recording and playback images we call it PIP function. PIP sub-window's location can be altered. Detail information will be described later on.

Note: PIP function can only be done when connecting VGA output to

VGA monitor. TV output to TV Monitor will not display this function.

Add 1 / Last One / Fast Speed Forward

- Under normal operation: Add 1 when setting numbers or last one selection button
- Under playback mode: Playback speed will be changes each time you
 press the button to 2 → 4 → 6 → 8 fast speed playback

- 1. Under normal operation: To cancel setting
- 2. Under playback mode: To stop image playback.
- 3. Not under playback or setting mode: To view alarm log. Detail information will be described later on.

Note: This button is not the stop recording button. Press of this button can not stop recording. You will have to select the stop recording function from system setting.

2.2 System Back Panel:



System's back panel is mainly for signal connection. Detail information as followed:

■ Power Supply

Mark 1: This is for the power supply input socket. You can directly

connect to AC 110V/60Hz or 220V/50Hz.

■ Ethernet RJ45-jack

Mark 2: This is for RJ45 internet connection socket. This is for 10Mbps/100Mbps Ethernet

■ USB

Mark 3: This system has 2 USB sockets. This is for connecting to USB devices for backup images or update firmware.

■ Power

Mark 4: Power on/off. To turn on/off the system power.

VGA Output

Mark 5: VGA Output to connect to VGA monitor.

■ Video Input BNC-jacks

Mark 6: Video Input 1-4 (From left to right); Mark 10: Video Input 5-8 (Only VGN8C-RT4 has this input points) (From top to bottom).

■ TV Monitor Output BNC-jack

Mark 7: TV output BNC-jack to connect to TV monitor.

■ Audio Input RCA-jack

Mark 8: Audio input 1-4. Mark 11 is the audio input 5-8 (Only VGN8C-RT4 has this input points), the red, white, black and yellow color on the audio in connection cable is for audio in 5-8.

■ Audio Output Earphone-jack

Mark 9: Audio out jack for live audio monitoring, or audio output when playback saved files with audio.

■ Input Terminals (Optional)

Mark 12: Input terminal 1-4, for users to connect to sensor devices. Input signal from top to bottom is **input1**, **input2**, **input3**, **input4** and **ground connection**.

Output Terminals (Optional)

Mark 13: Relay Output 1-4, for users to connect for controlling of external device. Signal from top to bottom (2 connections for 1 relay output) are output1, output2, output3 and oputput4.

2.3 Hard Disk Installation:

Please take extra notice that the system does not include a hard disk. So before you start operating this system, it is suggested you install a hard disk

for recording files.

- Note1: This system is using Linux EXT3 hard disk format. It is suggested to use the un-partitioned and un-formatted hard disk, or use the already formatted to Linux EXT3 format hard disk.
- Note2: There is no restriction size for a single hard disk capacity. However, the maximum partition size will be 250GB.
- Note3: After a brand new hard disk is installed, this system will automatically partition and format this hard disk. When a hard disk is over 250GB, system will automatically separate it into 2 or more same partition sizes.

VGN8C-RT4 / VGN4C-RT4 system has a IDE interface. It can connect 2 IDE hard disk , The setting for the first hard disk is Master and the second as Slave.

Chapter 3: System Setting

This is used to setup the system for operation needs. This system includes functions like, motion detection, alarm functions, security functions, Internet functions and I/O control etc. Users can setup the system to suit your needs. Detail information as below:

3.1 Setup Main Menu

SETUP 8102 0510

1.TIME/DISPLAY

2.CAMERA

3.ALARM

4.SYSTEM

5.NETWORK

6 I/O

7.PROGRAM

8.ADVANCE...

[&]quot;8105 1027" is the firmware version for VGN8C-RT4/VGN4C-RT4

[&]quot;G101 1027" is the firmware version for VGN16C-HRT4/VGN8C-HRT4

3.2 Time / Display Setup

TIME/DISPLAY SETUP

1.DATE 2006/5/8

2.TIME 18:00:08

3.TIME ZONE GMT+08

4.SYSTEM TIME ON

5.CAMERA NAME ON

6.SYSTEM STATUS ON

Time / Display setup is for setting the system time and display status. User the up and down button to select and press the select button to confirm setting:

- Date: Use the leftward and rightward button to select year, month and date. You can also use the number 1-9 and 0 to key in the number directly, (the numbers will automatically move to the left side), or you can use add、 subtract button for setup.
- Time: Setup hour, minutes and seconds. Setting is as above.
- Time Zone: Use add, subtract button for setup. For example Taiwan's time zone is GMT+08
- **System Time:** The defaulted is on (activate), system will display the system time on the monitor.
- Camera Name: Defaulted is on (activate), system will display the camera name on the monitor. Camera name will need to setup under "Camera Setup menu".
- **System Status:** Defaulted is on (activate), system will display system status on the monitor. Mainly is showing the hard disk sizes and hard disk free spaces.

Note: You must stop recording when setting up date, time and time zone.

3.3 Camera Setup

CAMERA SETUP: CAMERA1 1.CAMERA NAME CH1------2.ENABLE ON 3.AUDIO ON 4.DISPLAY ON 5.BRIGHTNESS 115 6.CONTRAST 130 7.SATURATION 150 8.HUE 128 9. VIDEO CONFIG DEFAULT

Camera setup is to setup the information for each camera. Every camera can be set alone with depending on the requirement. The above is an example setting for camera 1. Other cameras can be setup using the same way. Users can use leftward, leftward, rightward buttons to changes to different camera setup menu.

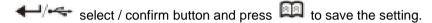
Note: When setting up the camera, the images correspondence to the camera will be displayed as full sizes for adjusting brightness, contrast,

saturation and hue. Press to save the setting.

- Camera Name: You can only setup the camera name using English or alphabet. You can use the number button directly for setting or use add or substrate for setting.
- **Enable:** Defaulted is on (activate), if the camera does not connect to a camera, user can disable (OFF) this selection, and then this will not be record.
- Audio: Defaulted is on (activate). Audio functions uses 24kbps ADPCM format for recording. File sizes are approximate 10MB per channel per hour.
- **Display:** Defaulted is on (activate), you can change to off if display not require.
- **Brightness:** Brightness adjustment. Defaulted is 115, adjusting range

from 0-255, 0 is the darkest and 255 is the brightness.

- Contrast: Contrast adjustment. Defaulted is 130, setting range from 0-225, 0 is the lowest and 255 is the highest.
- **Saturation:** saturation adjustment. Defaulted is 150, setting range from 0-225, 0 is the lowest and 255 is the highest.
- **Hue:** Hue adjustment. Defaulted is 128, setting range from 0-255.
- Video Configuration Default: When users want to get back to the defaulted brightness, contrast, saturation and hue, press the



3.4 Alarm Setup

This system supports alarm functions, which include sensor input trigger alarm, video lost trigger alarm, and motion image trigger alarm.

Alarm setup is to setup the alarm function for each camera. Every camera has its own setting. Below is the setup menu for the camera 1, other cameras can be setup using the same method. Users can use leftward. If it is in the setup menu is its own setting. If it is it is it is in the setup menu is its own setting.

ALARM SETUP : CAME	RA1
1.VIDEO LOST CHECK	ON
2.MOTION DETECT	9
3.ALARM SOUND	OFF
4.ALARM INTERVAL	120
5.MASK1	00 00:00 00
6.MASK2	00 00:00 00
7.MASK3	00 00:00 00
8.MASK4	00 00:00 00
9.OUTPUT TRIGGER	

- Video Lost Check: Checking video lost. Defaulted is on (activate) so when video lost, system will trigger alarm.
- Motion Detect: Enable or disable motion detection and setup the

detection sensitivity. Defaulted sensitivity is 9, its range is from 1-16 or off to disable the motion detection. 1 is the less sensitivity and 16 is the most sensitivity.

- Alarm Sound: This is to setup the alarm sound when alarm triggered. Defaulted is off (disable), system's built-in 4 different alarm sound, you can use add, subtract or the number1-4 to setup different alarm sound or off to disable alarm sound
- Alarm Interval: This is used to setup the alarm interval, defaulted is 120seconds, setting range from 100-999seconds.
- Mask 1-4: You can setup maximum of 4 detection areas for each camera. Each images is seen as 22 x 15 (NTSC) or 22 x 18 (PAL), so you can set a maximum of 4 area in (00 00)~(22 15) (NTSC) or (00 00)~(22 18)(PAL). (00 00) is the top left hand side and NTSC(22 15)/PAL(22 18) is the right bottom side. When there is motion in the masked area, it will trigger alarm. When alarm triggered, it will be save in the alarm log. User can playback the alarm files from the alarm log.
- Output Trigger: When alarm triggered, it can be set to control the external alarm device form the output terminals. There are a total of 4 relay output control terminals for selection. This output control terminals is optional.

3.5 System Setup

NTSC
30
10
QUAD DISPLAY
3
ON
ON
OFF
OFF

- Video Mode: Video modes include the selection of NTSC and PAL.

 Users must change it according to your local video mode. You will need to stop recording before changing the setting.
- Record Speed: Maximum recording speed per channel is 30fps NTSC or 25fps PAL.
- Video Quality: Video quality range is from 1-10. Quality 10 means the best quality however the largest the recorded file sizes. User's can change the video quality to your needs. However, low quality also will influence the playback quality.
- Scan Type: This is to setup the auto scan type. FULL DISPLAY (single camera full screen display, recycling for every channels), or QUAD DISPLAY (4 split window /2 pages display,), or Eighth Display (as 9 split windows and 4 pages display)
- **Scan Interval:** This is to setup up the interval for auto scan. Defaulted is 3 seconds. Maximum interval time is 99 seconds.
- Auto Record: When auto record is set at On (activate), when system reboot, system will automatically start recording. If this setting is Off (disable), then user will need to press the record button manually for the system to start recording.
- Live Audio: When this is activated, and you had connected audio input to the correspondence cameras, you are able to have live audio monitoring when the sound is connect to a speaker.
- ALARM RECORD: When system not under recording mode, after activated of this function, the system will start recording after alarm triggered. Recording time is the time set between alarm intervals with 3-5seconds pre-alarm. Also input points can activate alarm records. Recording time is the signal input time.
- VGA-PIP: PIP (Picture in Picture) functions us use to see both record and playback images at once. When it is set at on (activate), press the V/□ bottom, there will be a sub-window showing on the VGA monitor. Then both recording and playback images can be see at the same time. Press the bottom again then the sub-window will be disappeared.

Note: PIP function can only support by VGA output connects to VGA monitor. TV monitor does not support this function.

3.6 Network Setup

NETWORK SETUP: SERVER SETUP

1.HOST NAME VGN8C-----

2.CONNECT SERVER ON

3.SERVER 192.168.16.127

4.SERVER PORT 40000

Network Setup is to setup the network connection function. You can setup the system's network connection and also you can setup 4 sets for remote user's name, password, authorization and camera.

You will require setting the "Connect Server" to off before setup/alter Network Setup and Remote User.

Server Setup:

When enter this setup, the above server setup pages will be shown.

- ◆ Host Name: Host name is used for recognition when connecting in the internet. Defaulted host name is VGN8C/VGN16C. Users can change the name easier to recognize. You will require setting the "Connect Server" to "off" before setup/alter the host name.
- Connect Server: System will connect to the server according to the setting when it is set as on. If set at off, then system will not connect to server.
- Server: For Network connection, system will need to connect to the PC running the Server program. Server address is the IP address for that PC.
- ♦ Server Port: It is suggest setting the communication port for the Server program as defaulted 40000 when setting the remote connection. Please do not change it if not necessary. If alteration is a must, then you will require changing all three communication ports to the same value for VGN8C-RT4, Server Program and Remote server for ChateauRT4 V5.0.

■ Connection

User can use | left, | right to enter connection setup

NETWORK SETUP: CONNECTION

1.LISTEN PORT 50000 50000

2.MODE LAN

3.GET IP AUTO GET IP

- Listen Port: Listen Ports for the N Series, LAN users use the first value; WAN users use the second value. Defaulted value is 50000. Internet connection will require changing the communication ports. Please refer to Chapter 10 Network Connection Setup.
- Mode: There are three connection modes. LAN mode, WAN mode and Dail-Up mode using (PPPoE).
- Get IP: Under LAN mode, IP setup can be Auto get IP and manually set IP. If the LAN network is with DHCP function, the IP address can be automatically get.

NETWORK SETUP:	CONNECTION
1.LISTEN PORT	50000 50000
2.MODE	LAN
3.GET IP	MANUAL SETUP IP
4.LOCAL IP	000.000.000
5.NET MASK	000.000.000
6.GATEWAY	000.000.000

■ Manual Get IP

Under LAN Mode, users can manually setup IP.

Local **IP**, **Net Mask**, **Gateway**: The IP address for Local IP, Net Mask and Gateway for the System.

NETWORK SETUP :	CONNECTION
1.LISTEN PORT	50000 50000
2.MODE	WAN
3.LOCAL IP	000.000.000.000
4.NET MASK	000.000.000.000
5.GATEWAY	000.000.000.000

■ WAN Mode

User with Fix IP address can select WAN Mode.

Local IP, Net Mask, Gateway: Under WAN Mode, Local IP, Net mask and Gateway setting is the information provided from your ISP.

NETWORK SETUP :	CONNECTION
1.LISTEN PORT	50000 50000
2.MODE	DIAL-UP
3.USERNAME	MANUAL SETUP IP
4.PASSWORD	000.000.000.000
5.AUTO CONNECT	ON

■ DIAL-UP Mode

Users with PPPoE connection can select Dial-Up Mode.

- ◆ User Name, Password: Username and password is require to enter when connection. User will require putting "+" in front of every letter if the password and username is small letter. For example, user's name is "chateau", you will require to enter as +C+H+A+T+E+A+U
- ◆ Auto Connect: When activated, system will auto connect when system restarts.

■ DNS Setup

User can use III left, III right to enter DNS (Domain Name Server) setup.

NETWORK SETUP :	DNS SETUP
1.GET IP	AUTO GET IP

◆ GET IP: There are Auto Get IP and Manual Setup IP for setting

of DNS IP address. Auto Get IP can be done when a DNS address is assigned under LAN.

NETWORK SETUP: DNS SETUP

1.GET IP MANUAL SETUP IP

2.PRIMARY IP 000.000.000.000

3.SECONDARY IP 000.000.000.000

- Get IP: DNS IP can be manually setup.
- Primary IP, Secondary IP: User can setup 2 sets of DNS IP.

User

User can use left or left or right buttons to enter the setup pages for remote user 1 / user 2 / user 3 and user 4 to setup the authorization for remote.

NETWORK SETUP :	REMOTE USER1	
1.USER NAME AAAA		
2.PASSWORD	AAAA	
3.SETUP	ON	
4.DOWNLOAD	ON	
5.OUTPUT	OFF	
6.CAMERA1-4	ON ON ON	
7.CAMERA5-8	ON ON ON	
8.CAMERA9-12	ON ON ON	
9.CAMERA13-16	ON ON ON	

- ◆ User Name: This is to setup the user's name who allows connecting to this system.
- Password: This is to setup the user's password which allows connecting to this system
- Setup: This is to authorize remote user to enter system setup and Video Configuration functions.
- ◆ **Download:** This is to allow remote user to download/retrieve history database from the system.
- Output: This is to allow user to remote control relay output (optional)

- ◆ Camera 1-4: This is to display the camera that the remote user is allowed to monitor. Unauthorized camera will not be displayed. From left to right are camera 1/ camera 2/ camera 3/ camera4.
- ◆ Camera 5-8: This is to display the camera that the remote user is allowed to monitor. From left to right are camera 5/ camera 6/ camera 7/ camera8. (VGN4C-RT4 does not support camera 5-8)
- ◆ Camera 9-12: This is to display the camera that the remote user is allowed to monitor. From left to right are camera 9/ camera 10/ camera 11/ camera 12. (VGN4C-RT4 /VGN8C-RT4/VGN8C-HRT4 does not support camera 5-8)
- ◆ Camera 13-16: This is to display the camera that the remote user is allowed to monitor. From left to right are camera 13/camera 14/camera 15/camera 16. (VGN4C-RT4/VGN8C-RT4/VGN8C-HRT4 does not support camera 5-8)

Network Info

User can use III left or III right buttons to enter the Network Info.

NETWORK SETUP :	NETWORK INFO	
1.LOCAL IP	000.000.000.000	
2.DNS SERVER	000.000.000	
3.MAC ADDRESS	000.000.000	

Network Info will display the IP address for System IP, DNS, MAC (Media Access Control).

3.7 Input /Output Setup: (Optional)

IO SETUP : OUT	TPUT		
1. OUTPUT1	ON	20	
2. OUTPUT2	OFF	30	
3. OUTPUT3	ON		
4. OUTPUT4			

Input/Output setup is to setup the output status and the input's signal

status. Users must setup the output status to correctly control the external devices. Input is to detect the status of the device. When input is triggered, then the system can corresponded according to the setting.

When enter this setup menu, it will be the setup of output. Users can use leftward, rightward to enter the input setup menu.

Output

There are 4 output control terminals. Each can be set independently. When output status setup is "---" means no output. If setting is on, means under normal condition relay output open, and if activated, then the relay output short. If the setting is off, then under normal condition, relay output short and if activated, then the relay output open.

■ Input

This system has 4 input terminals. Each input can be set independently. Users can use leftward, leftward, rightward to enter the different input setup menu. Setup menu as below:

IO SETUP: INPUT1	
1. TRIGGER TYPE	
2. ALARM SOUND	
3. OUTPUT1	
4. OUTPUT2	
5. OUTPUT3	
6. OUTPUT4	

- ◆ Trigger Type: Input terminals are mainly connection to switching devices. The device is separate into No (Open under normal condition) and NC (Short under normal condition). Wrong setting will cause error action. When input potential is "---", it means disable. Input potential is "High" will require to use NO (Open under normal condition) and when input potential is "Low", the NC (Short under normal condition) will be used. It is suggest using the device using NC. This means that when it is triggered, or connection cut off, it will trigger alarm.
- ♦ Alarm Sound: This is use to setup the alarm sound when input

terminals is triggered. You can use the 4 built-in sounds for setting.

Output 1-4: This setting is to send out control signal to control external alarm devices when input terminals had been triggered, each input terminals can setup 1-4 output control. Output setting "---"means disable, "ON" means active. Please refer to the output setup instruction above for setting.

3.8 Program

PROGRAM SETUP: PROGRAM 1

1.ENABLE: OFF

2.SUN-SAT OFF OFF OFF

OFF OFF OFF

3.BEGIN TIME: 00:00:00 4.END TIME: 00:00:00

Setting of 4 sets of programs for recording. Each set is based on a week time. Setting a same recording time for each program. Enable/disable of each date from Sunday to Saturday can be set independently.

3.9 Advanced Setup

ADVANCED SETUP

1.STOP RECORD

2.LOGOUT

3.LOGOUT AND RECORD

4.PASSWORD ------

5.UPDATE FIRMWARE

6.LOAD DEFAULT

7.FORMAT HDD HDA1

- Stop Record: This system's recording status is not able to stop recording from any button on the front panel. This is for security reason. So you will require entering this setup menu to stop recording.
- Logout: This is for security reason. To avoid any changes of the

setting from unauthorized person, it is suggested to logout after setting password. When logging in the system then re-enter the password for operating of the system and setting.

- Logout and Record: If the user did not setup "Auto Record" function, when log out, system will not be operating and will not be able to start recording even if you press the recording button on the front panel. You can then use this setup to activate recording when log out.
- Password: Users can setup the password yourself to avoid any operating from unauthorized person. Please log out after you set the password for it to be valid.
- Update Firmware: When we provide firmware update, users can download it from our website. Create a directory name as "firmware" in the USB device and download the update firmware in this directly in a USB device. Connect the USB device to the USB sockets of the system, activate this function, the system will then automatically update the firmware. System will need to reboot (Automatically) to finish firmware update.
- Load Default: System will be change back to its default value. This would avoid the error setting by the users, which might cause abnormal operating of the system.
- Format HDD: After installing of the hard disk (Suggest not to partition or format the HDD before installed) system will automatically detect and automatically partition and format the hard disk. When user wants to format it again, this function can be used.

Note: HDD display HDA1/HDB2. "A" means the master HDD (HDD number1). B means the slave HDD (HDD number2). The number 1 means the 1st partition and 2 means the 2nd partition.

Chapter 4: Record

When system turns on, system will need about 1 minute to boot and then to display images. When system is turned on but without installed with HDD or connected to camera, the below left hand side split window will be displayed:



- Image Section: Camera arrangement is from top to bottom, left to right as camera 1-8, a total of 8 image section (VGN8C-RT4).
- Status Section: Bottom right hand side is the status section, it display
 the system time and hard disk status. The above left hand side picture is
 displayed when hard disk is not installed. When hard disk is installed the
 it will display the partition, free spaces and total capacity messages as
 above right hand side pictures.

Note: Hard disk space is calculated as hexadecimal, so 1024 means K, not decimal system. Please be aware the differences.

Each camera images is displayed according to the setting. Detail information as below:

- Image: Without camera signal input, the image will be displayed as "VIDEO LOST". With video input, then image will be displayed.
- Camera Name: The camera name will be shown on the top left hand side of the image for every camera.
- Active: If symbol is displayed on the image, this means that this camera is selected (Active). If this camera is with audio recording, you will be able to hear the sound when this camera selected.
- **Record:** When **!** symbol is displayed, this means that this camera is under recording status.
- Audio: If symbol is displayed, this means that this camera is under audio recording status.

■ Alarm: If ♣ symbol is displayed, this means that this camera alarm had been triggered. When alarm triggered, system will automatically save it to alarm log for users to check.

4.1 Activate Record Manually

System will start operating according to the setting. If the auto record is set as off under system setting, system will not automatically start recording.

This record button will need to be pressed to activate recording. You will be able to see the symbol or whether the recording indicator from the front panel.

4.2 Auto Record

If the Auto record is set as ON under system setting, system will automatically start recording when turned on.

4.3 Stop Record

This system will not be able to stop recording from any button on the front panel. You will require entering the "advance setup" and selecting the "stop record" to stop recording.

Chapter 5: Playback

This system is with multi task capability. You can also playback images when recording. But a maximum of 4 images can be played back at once. (channel 1-4 or channel 5-8). Playback image as below:



- Camera Name: On playback images, camera name will be shown on the top left hand side of the image for every camera.
- Active: If symbol is displayed on the image, this means that this camera is selected (Active). If this camera is with audio recording, you will be able to hear the sound when this camera selected.
- Playback: When bis displayed on the images, this means that this images is playback image.
- Time display: On playback images, recording time and date will be display on the right bottom side of the images for every camera.
- Pause: When is displayed, it means that the playback image is under paused.

5.1 Assign Time for Playback

■ Press Playback button, then the following menu will be shown:

PLAYBACK

1. START DATE 2006-05-05 2. START TIME 13:00:00

3. CAMERA 1 - 4

Use up, down, left right, add, subtract, select buttons to changes the numbers. You can change the playback file start date, start time or camera number. After setting, press the playback button again to start playback.

5.2 Date List for Playback:

■ Users can also press ▶ button and then press 🕮 list button to playback files from the date and time lists.

PLAYBACK D	ATE LIST	
DATE	HDD	
2006-05-05	HDA1	
2006-05-04	HDA1	
2006-05-03	HDA1	
2006-05-02	HDA1	

■ After select the playback date file, the following will be shown:

FILE LIST : 2006-05-05			
START	END C	AMERA	SIZE
13:00:07	14:00:09	5-8	565.0M
13:00:07	14:00:09	1-4	718.0M
12:00:05	13:00:07	5-8	636.1M
12:00:05	13:00:07	1-4	590.2M
11:00:06	12:00:05	5-8	379.9M
11:00:06	12:00:05	1-4	412.9M
10:00:03	11:00:06	5-8	172.0M
10:00:03	11:00:06	5-8	191.2M

■ Use the **up** and **down** button to select the playback time and camera number. Press **select** or **playback** buttons to playback files.

5.3 Playback Operation Buttons

- Playback backward: Press the button to playback 160frames backward each time this button is pressed.
- Playback forward: Press ▶ button to playback 160frames forward each time this button is pressed.
- Playback Slow Speed: Playback speed will be changes each time you press the button \Rightarrow to $1/2 \Rightarrow 1/4 \Rightarrow 1/6 \Rightarrow 1/8$ slow speed playback
- Playback Fast Speed: Playback speed will be changes each time you press the button by to 2 → 4 → 6 → 8 fast speed playback.
- Step Playback / Pause: Each time this ▲ I is pressed, a single

frame will be played back and then paused.

- Stop Playback: Press ■/☑ button to stop all playback images. Playback images will be disappeared and change back to recording images.
- If the record files recorded from alarm records. Because the alarm time is not continually, the system will automatically paused and playback next alarm file only when user press the playback button.

Chapter 6: PIP Function

PIP functions only support VGA monitor output. This system does not support TV monitor output for PIP function. If user only connects to TV monitoring output, please do not activate this VGA-PIP function.

When system is recording and playing back files at the same time, users can use the **record** and **playback** button to switch between record or playback images. If user requires to display both record and playback images together, then you can use the PIP function to display. Before using the VGA-PIP functions, please activate the "VGA-PIP setting" from the "system setup" to ON.





Press the V PIP button under recording, Main window is the recording images and Sub-Window is the playback images.

If under playback, and this \(\bigvee \bigvee

Press this PIP button again to cancel PIP sub-window. User can also use the

record and playback button to switch from main window to sub-window.

PIP Sub-Window Location Adjustment

When PIP Sub-window is displayed, press the **setup** button, then use **up**, **down**, **left right** etc buttons to move PIP sub-window location.



If **cancel** button is pressed after adjustment, then the new location will not be saved. If **select/confirm** button is press after adjustment, then the new location will be saved. When user activates PIP function next time, PIP will display at the new location saved.

Chapter 7: Alarm Log

This system is with alarm function. There are three ways to trigger alarm. Motion Image Trigger Alarm (Move), Sensor Input Trigger Alarm (Input) and Video Lost Trigger Alarm (Loss). Any alarm triggered will results an alarm messages in the alarm log. User can then user this alarm log to check for the alarm situation.

Press Alarm Log button, the following will be displayed:

ALARM LOG DATE LIST		
DATE	HDD	
2006-05-05	HDA1	
2006-05-04	HDA1	
2006-05-03	HDA1	
2006-05-02	HDA1	
2006-05-01	HDA1	
2006-04-30	HDA1	
2006-04-29	HDA1	

Users can check the alarm log according to the date. After selection, press **select/confirm** button, the following picture will be shown to check for more detail alarm log:

_				
	ALARM LOG	ARM LOG : 2006-05-05		
	13:02:25	CAMERA5	LOSS	END
	13:00:25	CAMERA5	LOSS	START
	12:32:35	CAMERA3	MOVE	END
	12:30:35	CAMERA3	MOVE	START
	11:02:32	INPUT1		END
	11:02:02	INPUT1		START
	10:35:24	CAMERA2	LOSS	END

If under the alarm log is recorded because of motion, use the **up** and **down** buttons to select to the record and use **select/confirm** button to select to playback the images.

Also recycling of the hard disk motion or stop recording motion from advance setting will also create an alarm log.

Chapter 8: I/O

Input control is used to detect the situation of the sensor and then the system will react according to the setting. Output control is the relay output. You can use the relay output to control external devices, which include external alarm devices or even as usage of power switch.

Input Control Setup

An input terminal is mainly connected to the switch devices. Switching devices is separate into NO (Open: OPEN) and NC (Close: Short). Input detection is also separate into High potential and Low Potential. Inputs itself is high potential, going through the switch device and connect to ground. If the switch device is open, then the input terminal will detect is high potential. If switch is short, input terminal will detect low potential. When input potential is set at high, it means it is high potential under normal condition, you will require to use NO (Open) device. When sensor triggered, it will become short circuit, and then the input terminal

When input potential is set at low, it means it is low potential under normal condition, you will require to use NC (Close) device. When sensor triggered, it will become open circuit, and then the input terminal will detect high potential, then the system will triggered the alarm.

Input terminal's triggered potential means enable when set at "---"

will detect low potential, then the system will triggered the alarm.

Note: Wrong setting will cause error alarm triggered. It is suggest using the device using NC. This means that when it is triggered, or connection cut off, it will trigger alarm.

Output Control Setup

Output control is mainly controlling the relay output. Relay output itself is only the on/off device. It is not with any power signal output. So other than connect it to the needed devices, necessary power will need to connect as well.

If output setting is "ON", this means under normal condition, relay output is open loop circuit, after activated; relay output will become close loop circuit.

If output setting is "OFF", this means under normal condition, relay output is close loop circuit, after activated; relay output will become open loop circuit.

Output not controllable when output setup is "---"

Output Control

When by output control button is pressed, the following picture will be shown:

MUTE/OUTPUT CONTROL		
1. MUTE		
2. OUTPUT1	OFF	
3. OUTPUT2	OFF	
4. OUTPUT3	OFF	
5. OUTPUT4	OFF	

- 1. Use this **output control** to shut off the alarm sound when alarm triggered.
- 2. Use **up**, **down** buttons to select the outputs and press **select** button to adjust output from OFF-ON or ON-OFF.

Chapter 9: File Backup

By connecting USB devices (USB flash disk or USB Hard disk) to the system, you will able to backup file. Before you backup the files, please format the USB devices as FAT32, otherwise it might not be able to detect from the system.

Connect the USB device to the USB sockets at the back of the system, press USB backup function, the following picture will be shown:

FILE BACKUP DATE LIST		
DATE	HDD	
2006-05-05	HDA1	
2006-05-04	HDA1	
2006-05-03	HDA1	
2006-05-02	HDA1	
2006-05-02	HDA1	

Use **up** and **down** button to select the files date for backup and press the **select** button the following will be shown:

FILE LIST	Г : 2006-05-03					
START	END	CAMERA	LENGTH			
14:00:00	15:00:00	1-4	660.0M			
14:00:00	15:00:00	5-8	662.3M			
13:00:00	14:00:00	1-4	680.4M			
13:00:00	14:00:00	5-8	560.0M			
12:00:00	13:00:00	1-4	702.3M			
12:00:00	13:00:00	5-8	720.4M			

Use **up** and **down** button to select the file time and camera number for backup, and press the **select** button the following will be shown:

FILE BACKUP : 2006-05-03				
1. START TIME	14:00:00			
2. END TIME	15:00:00			
CH1	ON			
CH2	ON			
CH3	ON			
CH4	ON			

User will require setting the start time and end time then using **up** and **dow**n button to select the camera number for backup. And press **select** button on top of the camera name. System will then backup files to USB devices. You will then be able to read the file using VGPlayer (V5.4 or later).

Backup files do not require copying full files. You will only need to set the start time and end time to cut the file for backup to save spaces.

Chapter 10: Network Function

This system supports network function. You can use the remote software for network connection. The system using the remote software can be installed with digital video surveillance cards and operating remote monitoring/recording, it can also connect to other DVR embedded

Standalone System, it can also monitoring other PC based images to form a full network. (Require using the same version remote software V5.0 or above).

You will require selecting a computer as server, using the CD ROM we provided to install the software. After installation is finished, three main softwares will appear, which include, ChateauRT4 software, Server software and VG Player software.







10.1 Network Setup:

Before you get on with the network setting and connection, you will require to setup the network environment, otherwise it might cause the system not able to connect to each other.

Setup Server (Listening Port: defaulted 40000)

- 1. Install Server software on a computer, this computer is better to have a fixed IP address.
- If it is set up on a real IP address (i.e. 211.172.12.34), all the VGN8C-RT4/VGN4C-RT4 DVR and ChateauRT4 system Server IP address will need to set as 211.172.12.34.
- If it is setup on a virtual IP address (i.e. 192.168.1.11) all the VGN8C-RT4/VGN4C-RT4 DVR and ChateauRT4 system Server IP address will need to set as 192.168.1.11
- 4. If server is set on a virtual IP under LAN (i.e. 192.168.1.11), but also require for internet uses, then you will require to do NAPT (Network Address Port Translation) in your router to correspondence. You can then able to connect to the computer with the server through router under LAN

192.168.1.11:40000 < -----> 211.172.12.34:40000

Setting for all the VGN8C-RT4/VGN4C-RT4 DVR system's server IP will be 211.172.12.34 if it is through internet to connect to server. If it is under the same LAN network, then the IP address is

10.2 Network Connection Setup:

■ Server Program: Please run server program from a computer:



Server's default communication port is **40000**. If this port would conflict with other programs, user can alter this port setting. When this port is changed, you will require changing the server port from **network setting** for **VGN8C-RT4/VGN4C-RT4** and also changing the listening port of **TCP/IP** setting for **ChateauRT4** main program to the same value.

■ VGN8C-RT4/VGN4C-RT4 DVR network setup

If the recording site (VGN8C-RT4/VGN4C-RT4, and ChateauRT4) is using real IP address for internet (ie.211.175.21.43)

VGN8C-RT4 / VGN4C-RT4's network setting is as follow:

Communication Port Setup: LAN: 50000; WAN no special value required

ChateauRT4's Network setting as follow:

Communication Port setup: LAN: 40001; WAN no special value required.

If the recording site (VGN8C-RT4/VGN4C-RT4, and ChateauRT4) is using a virtual IP address under LAN (i.e. 192.168.2.20) and the monitored site is under the same LAN:

VGN8C-RT4/VGN4C-RT4's network setting is as follow:

Communication Port Setup: LAN: 50000; WAN no special value required

ChateauRT4's Network setting as follow:

Communication Port setup: LAN: 40001; WAN no special value

required

3. If there are few VGN8C-RT4 / VGN4C-RT4, ChateauRT4 systems under the same LAN which require for remote recording /monitoring through Internet, then you will require doing NAPT (Network Address Port Translation) in your router to correspondence. You can then be able to connect to the VGN8C-RT4 / VGN4C-RT4, ChateauRT4 system for remote through router under LAN.

VGN8C-RT4 / VGN4C-RT4 network setting as below

IP 192.168.2.20; Listening Port setting: LAN 50000 WAN 50000

IP 192.168.2.21; Listening Port setting: LAN 50000 WAN 50001

IP 192.168.2.22; Listening Port setting: LAN 50000 WAN 50002

ChateauRT4 network setting as below

IP 192.168.2.23; Listening Port setting: LAN 40001 WAN 40001

IP 192.168.2.24; Listening Port setting: LAN 40001 WAN 40002

IP 192.168.2.25; Listening Port setting: LAN 40001 WAN 40003

Router network setting as below

192.168.2.20:50000 < -----> 211.175.21.43:50000

192.168.2.21:50000 < -----> 211.175.21.43:50001

192.168.2.22:50000 < -----> 211.175.21.43:50002

192.168.2.23:40001 < -----> 211.175.21.43:40001

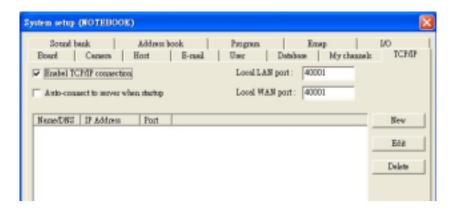
192.168.2.24:40001 < -----> 211.175.21.43:40002

192.168.2.25:40001 < -----> 211.175.21.43:40003

■ ChateauRT4 Network Connection Setup:

User must setup the network connection for the computer system which installed with **ChateauRT4** program to monitor or monitored (Installed with VGuard Card) by other system.

Enter System Setup for ChateauRT4 program. Select TCP/IP setting:



Select **New** to add a new server IP address:



Key in a Server name for this system (If you are using a name to connection under LAN, then this name have to be the same name under LAN),

There are three types for remote: Server; EC DVR and Embedded DVR. In these, Server supports connection from several remote points from PC DVR and Embedded DVR. PC DVR and Embedded DVR can only support point to point connection.

Port setting for different remote types as below:



Type: Server PC DVR Embedded DVR

Port: 40000 40001 50000

Port for server is based on the Server setup. Defaulted is 40000; PC DVR port is based on the LAN port setup for Chateau Software. Defaulted is 40001; Embedded DVR port is based on the LAN port setup for VGN8C-RT4. Defaulted is 50000.

Click to link to remote access, you should be able to see the list for of the TCP/IP setting above. Double click on this TCP/IP setting, if network setting is correct, a "**connected**" will be shown. This means you had successfully connected with remote site.

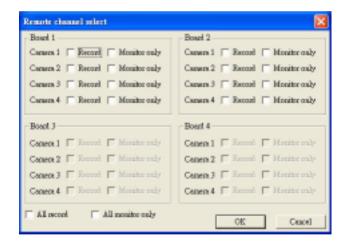
Remote access				
TCP/IP Moder	n			
Name/DNS	IP Address	Port	Туре	Status
Server PC VGN8C-RT4	12.34.56.78 12.34.56.79 12.34.56.80	40000 40001 50000	Server PC DVR Embedded DVR	Connected

From the Host panel on the right hand side of ChateauRT4 main program, you should be able to see the name for all connected systems.

Select the system name you like to monitor, the split window correspondence to this system will display:



Press button, if password correct, the following "Remote Channel Select" will be shown as below:



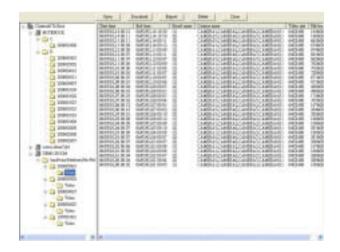
Select and choose whether to record or monitor for each camera and click the **OK** button, system will then display according to your selection for remote recording/monitoring:



10.3 Remote File Search:

Under connected status, click playback button and then click

File mode button, you will be able to search for the database from the system hard disk.



Enter the file mode, you can search file directly. You can **Open** it for playback or **Download** it for backup.

Chapter 11: VG Player

A **VG Player program (V5.4 or later)** is included in the CD-ROM we provided. You can playback all the video files **Chateau** program recorded. Run **VG Player** program, the following will be shown:



Playback window can be seeing as 4 areas, which include:

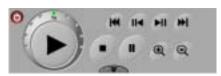
■ Playback Message area: Display all the information for the playback files; include host name, time and status.

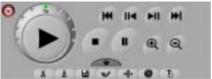


- Host name and time zone
- Recording date for the recorded file
- Operating Status: Status for this program includes playing or pause.
- Playback Image: When playing back, except for the images, it also includes time, VGuard card number and camera names etc.
 - Display files start time/date.
 - Display files end time/date.
 - Display the time/date when images recorded.
- Playback time scroll bar: Display the time position when playing back files. You can use the mouse to drag the time scroll to search forward or backward, or by using the function buttons for searching.



11.1 Playback Control Panel:





A Playback control panel consists of Basic Functional Control panel and the extended Functional Control Panel. The picture left above is the basic functional control panel. And when pressing the button, the extended functional control panel will be shown as right above. Press the button to hide this extended functional control panel.

Each playback button's function is described as follow:

- Stop: This is to stop the current playback not the playback window.
- Play: This button functions the same as Play button of traditional video player. When clicking this button during fast or slow playback, the playback speed returns to normal.
- **Pause:** This button functions the same as Pause button of traditional video player. By clicking this button during playback, the playback pauses. To continue the playback, re-click this button or playback button
- **Backward Search:** This button function the same as the Rewind button of traditional video player. Click this button, and the video will move backward for a number of frames (160 frames).
- Forward Search: This button functions the same as the Forward button of traditional video player. Click this button, and the video moves forward for a number of frames (160 frames).
- Forward Single Image: When this button is clicked, the video will moves forward for a single image each time. The image will be hold until play button is clicked. Then the playback speed will be back to normal.
- Backward Single Image: When this button is clicked, the video will moves backward for a single image each time. The image will be hold until play button is clicked. Then the playback speed will be back to normal.
- Snapshot: By clicking this button, you may capture still images during video playback. If there is caption text on the video, the captured images will contain the caption text information. The captured image is

stored in JPG format. (File name will be forms automatically or by the designated directory set in **Host setup**.)

Start Video Clip: Click this button during video playback, and the video clipping will begin. The record time will become the start of the video clip.



End Video Clip: Click this button during video playback, and the video clipping will end. The time will become the end of the video clip.



Save Video Clip: Click on this button, and it will be saved under the Clip folder in that particular date or by the designated directory set in Host setup.

Playback Clip: After video is cut, you may playback the cut video by clicking this button.

Caption: Click the button, the playback window shows the name of the camera, the starting time, ending time and current time for recording

Caption Color: Click the button, the user can change the color of the caption

Zoom In: You may click the button to enlarge an image from its current size. Each click will enlarge the size by 25%; and click it again to further enlarge it by another 25%; and so on up to the 200%

Zoom Out: You may click the button to reduce an image from its current size by 25%; and click it again to further reduce it by another 25%; and so on down to 100%

End: Click the button to stop the playback function and to close the playback window



Fast Playback and Slow Playback: Left is the control panel for playback speed. The middle is playing at the speed of 1x. By clicking to each point to the right, the speed will increase from x2, x4, High Speed and Extra High Speed. And by clicking each point to the left, the speed will playback at a speed of 1/2, 1/4, 1/6, and 1/8.

11.2 Color Configuration:

VG Player supports a great color configuration function. You can adjust the image's **Brightness**, **Contrast**, **Saturation** and **Hue** for better image effect.



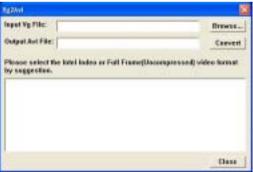
Under Main Screen, select **Color** and select **Color configuration** function, then the following window will be shown for the configuration



11.3 VG to AVI Conversion:

VG Player supports the conversion of VG Files (Includes VG, VGX and VGZ files) to AVI files. The files then can be playback by most of other playback software.

Firstly, select the **Tool** on the main screen. Then select **VG to AVI** function, the following will be shown:



Note: When converting of VG files to AVI files, the data will be taken lots of spaces, if the original VG files are very large, it will consume a great amount of hard disk spaces, and also need longer time for the converting. Therefore, we suggest selecting the required fragment, using the start video

clip function to edit into shorter video files, and then proceed with the converting to save time and hard disk spaces.

■ Select Image File

Click the **Browse** button, an open file dialog will pop up. Then search for the folder that the file is in and select the file type (VG, VGX, or VGZ format). The entire selected file name will be shown and just select for the one to be converted.

■ Converting Files

Click the **convert** button; a **converting window** will be pop up. Select the AVI compression format to be converted to proceed with the converting of the files after you click **OK** button. The files after the conversion then can be playback using Windows image player.



Note: The compression program is different in every computer depending on the image software it had installed. Window will provide few standard formats, i.e. Intel Indeo® format, it is recommended to select this format to avoid incapable of playback from other computers.