

User Manual (DVR System)

Version 1.0

H.264 High Quality Digital Video Recorder

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Overview

Important Safety Instruction

Instruction and Warnings for Safety

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prongs are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.

***Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus

Before Start

This user manual provides Information for using the DVR such as brief introduction, part names, functions, connection to other equipment, menu setup, etc. Users have to keep in mind the following notices

- Manufactures retains the copyright on this manual.
- This manual cannot be copied without Manufacture's prior written approval.
- We are not liable for any or all losses to the product incurred by your use of non-standard product or violation of instructions mentioned in this manual.
- Prior to opening the case, please consult a qualified technician first. Whenever this is needed power must be removed from the unit.
- Before installing an additional HDD or connecting an external storage device (USB memory or USB HDD) to this DVR, check the compatibility. Consult your provider for the compatibility list.

[Warning]

- Replacement Battery or Hard Disk

It is essential that when changing the battery or HDD in the unit, the replacement must be of the same type or recommended ones, otherwise there may be a possibility of damage or explosion.

- System Shutdown

Turning off the power while the product is in operation, or undertaking improper actions may cause damage or malfunction to the hard drive or the product. Please turn off the power using the Power button on the front of your DVR. After selecting <OK> in the pop-up menu, you can pull off the power cord. You may want to install a UPS system for safe operation in order to prevent damage caused by an unexpected power stoppage. (Any questions concerning UPS, consult your UPS retailer.)

- Operation Temperature

The guaranteed operating temperature range of this product is 0°C ~ 40°C (32°F ~ 104°F). This product may not work properly if you run right after a long period of storage at a temperature below the guaranteed one. Prior to using a device that has been stored for a long period in low temperatures, allow the product to stand at room temperature for a period. Especially for the built-in HDD in the product, its guaranteed temperature range is 5°C ~ 55°C (41°F ~ 131°F). Likewise, the hard drive may not work at a temperature below the guaranteed one.

Features

This DVR employs H.264 video encoding for 8 or 16 channel inputs and G.723 audio encoding for 4 or 16 channels while simultaneously supports hard disc recording and playback. These DVRs also supports network connectivity, providing remote monitoring from a remote PC transferring video and audio data.

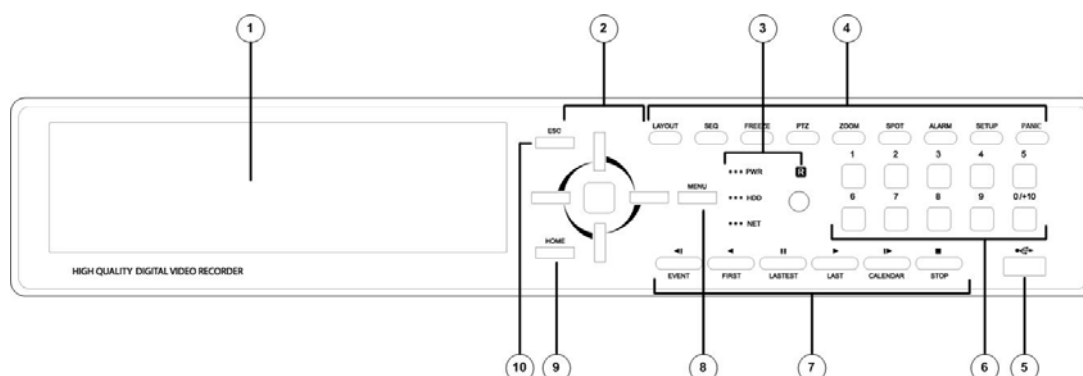
Especially our DVR support SD Analog port, and HD-SDI port together(Hybrid), so users can use and mix their own way to extend or mix their Analog Camera with HD-SDI Cameras at the same time.

There 3 Types of Our DVR: HD-SDI/Hybrid/SD Type, please note.

Main Features

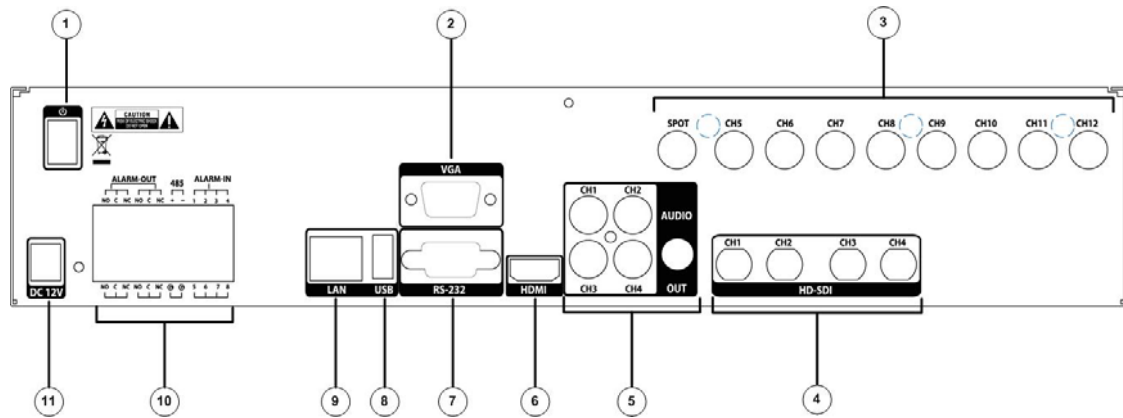
- H.264 High Quality Video Compression
- Full Real-Time Live Display & Recording in SD(Standard Definition) **(S1008/S1016)**
- Middle End Level 4CH HD-SDI DVR **(S1400)**
- Using SD (Analog) Camera & HD-SDI Camera in Hybrid Type DVR **(S1108/S1208/S1404/S1408)**
- HDMI & VGA enabling superior picture output quality(1920x1080p)
- Privacy Masking (to protect individual life) and <Covert> feature available
- Perfect synchronized Audio Recording and Dual-Audio available too.
- Pentaplex (Live/Recording/Search/Network/Backup) and dual streaming of Network
- Look & Feel GUI...just the same GUI as PC window
- <Look & Feel? Feature can choose your own GUI (like Window desktop theme)
- High-End Digital Zoom (Up to x10) to highlight HD-SDI
- UPnP(**universal plug and play**) function and DDNS support
- Emergency Recording(Panic)
- Support various OS :Windows XP/Vista/7, and Mac OS
- Support various Mobile Platform : Iphone, Ipad, Android, Android Pad
- Various Remote Clients : Remote Live/Search/Setup, CMS, Backup Player
- Support various Brower(Web Client) : Firefox, Chrome, Safari and Internet Explorer(2012 3Q)

Part Name and Functions(Front)



No.	Part Name	Functions
①	ODD(Cover)	DVD & DVD-RW for backup
②	Direction / Select Button	Used to change a value or move the cursor up/down/left/right. Selects a menu item or executes the selected menu
③	LED Indicator & IR Sensor	Shows the status of Power, HDD and Network / IR Sensor
④	LAYOUT(Screen Division)	Changes Screen Division
	SEQ	Each time you press the button in Live mode, the screen mode will be switched in sequence.
	FREEZE	Freeze the Live Display
	PTZ	Pop-up Pan/Tilt/Zoom Control Panel
	ZOOM	Pop-up Zoom Control Panel
	SPOT	Pop-up Spot Control Panel.
	ALARM	Pop-up ALARM Control Panel
	SETUP	Pop-up SETUP(ADVANCED) Control Panel
	PANIC	Start/End Emergency Recording Mode
⑤	USB Port	USB connector port.
⑥	Number Key(1~0/+10)	Used to select channel numbers directly in the Live Mode, or numbers in the numeric input mode.. (0/+10 : To input Plus 9.)
⑦	EVENT(◀)	Used for backward frame-by-frame search / Shows Event Search control panel.
	FIRST(◀)	Used for quick backward search / Playback first recorded data
	LASTEST()	Pause Playback / Playback latest recorded data
	LAST(▶)	Playback / Playback last recorded data.
	CARENDAR(▶▶)	Used for forward frame-by-frame search / Show Calendar Search Control Panel
	STOP(■)	Stop Playback.
⑧	MENU	Show Menu.(the same as right button of mouse)
⑨	HOME	Show HOME menu in task bar
⑩	ESC	Cancel and Escape previous task

Part Name and Functions(Rear)

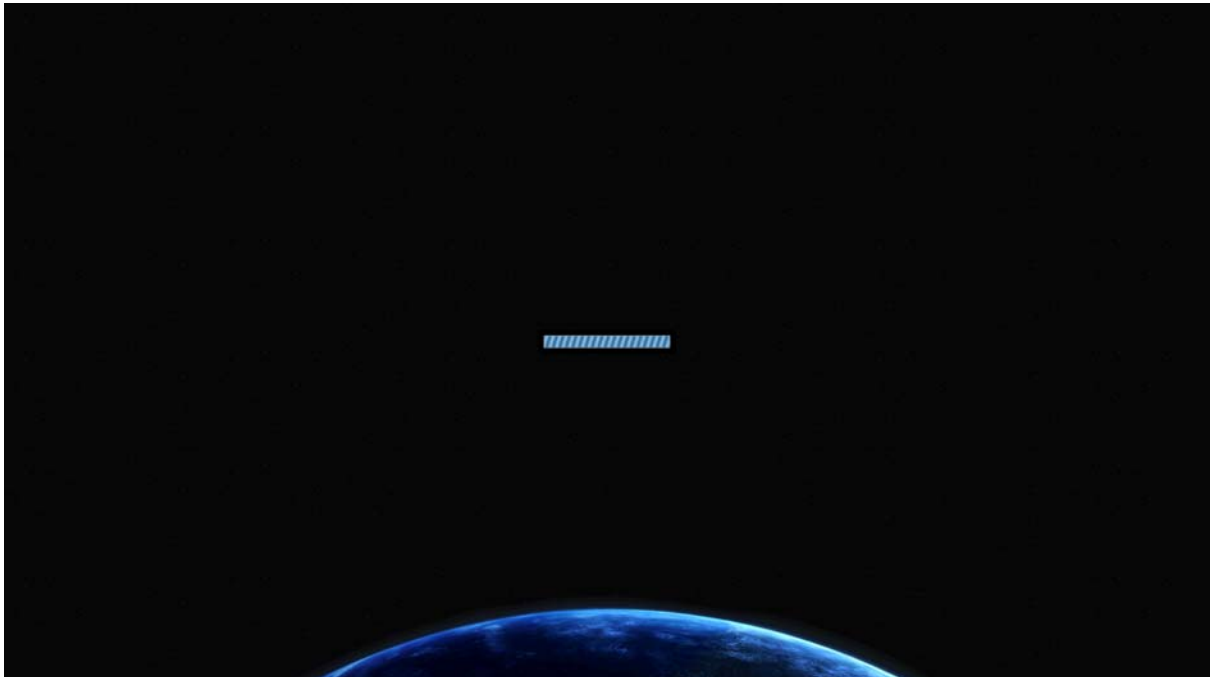


<Ex. 4HD+8SD Model >

No.	Part	Functions
①	Power Switch	Used to Power On/Off
②	VGA	GA Video Signal Output Port
③	SPOT	A live screen output port, separate from the VIDEO OUT.
	CH's	SD Composite Video Signal Input Port (BNC type connector)
④	HD-SDI	HD-SDI Video Signal Input Port
⑤	AUDIO	Audio Signal Output Port (RCA jack)
⑥	HDMI	HDMI connector port
⑦	RS-232	RS-232 Port (To debug)
⑧	USB Port	USB connector port
⑨	LAN	NETWORK(LAN) connector port.
⑩	ALARM IN	Alarm Input port (1~8 CH and G(ground).)
	RS485	Used for RS-485 communication (TX+, TX-, RX+, RX-)
	ALARM OUT	Alarm Output port (NO+C Or NC+C)
⑪	DC 12V	DC 12V Power Input Only

System Start/End(Shutdown)

System Start



When connect Power with DVR and switch on Power button of Rear Panel, Booting Window above will show and system starts.

- ✔ HDMI output don't show booting window above, just could show Live Display
- ✔ Normally booting time is within 1minute, but just takes more due to abnormal shutdown and HDD stability check-up.
- ✔ In booting, users can hear buzzer or beep sound

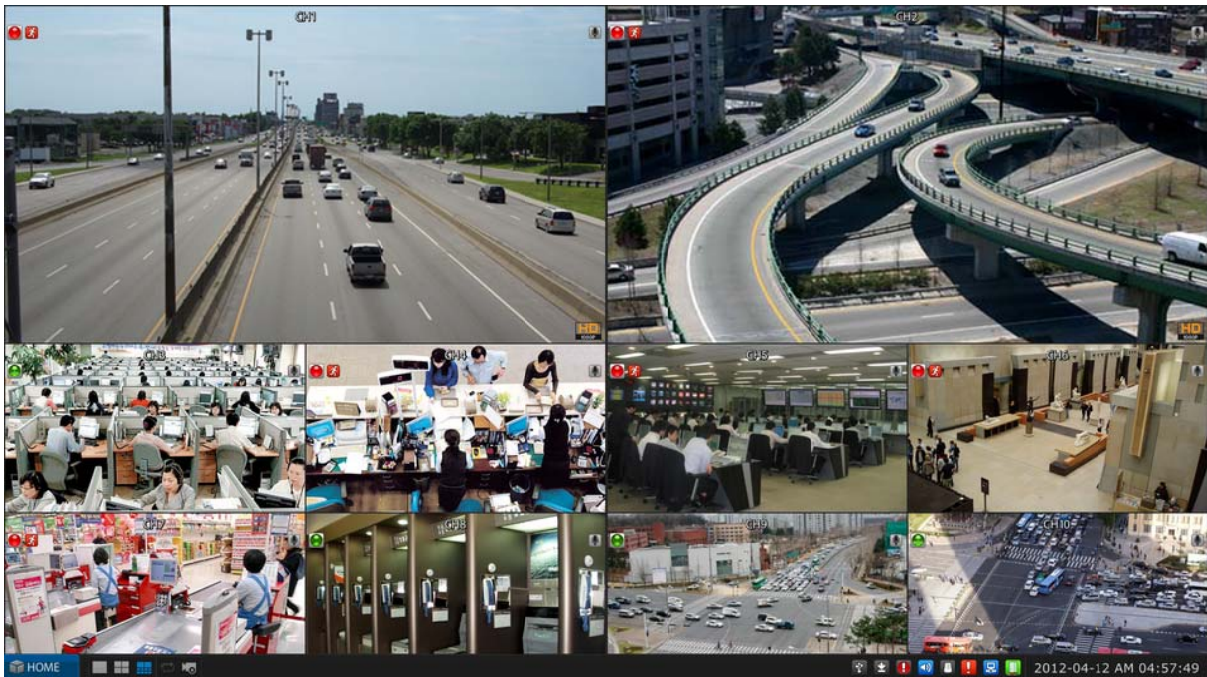
System Shutdown(End)

[Home>System shutdown] Menu, users can shutdown or restart system..

- ✔ When clicking <Shutdown>, users can see <Power Off> message, then shutdown system.
- ✔ When shutdown DVR by Switch Power Off or Unplug of Power Cable without the normal process above. This can damage DVR and HDD, so please shutdown the system by normal procedure above.

Live Monitoring

LIVE MONITROING SCREEN CONFIGURATION



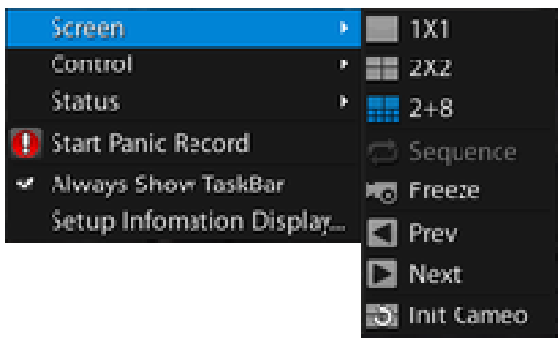
Live Video

Video OSD(Icon)

- Camera Name – Shows Camera Name(Title)
- Record Mode – Shows current Record Mode
 -  Continuous Record
 -  Event Record
 -  Emergency Record
-  Motion Detection
-  PTZ – Show PTZ Camera(Connected)
-  Audio Record – Show Audio Record Status
-  HD-SDI Input – HD-SDI Camera Status (1080P, 720P Auto Detection)

When clicking right button of mouse and goes to [Context>Information Setup], users can setup all values

Context Menu



Setup Screen Division and others like above. It is shown by <Right button of Mouse> or Menu Key.

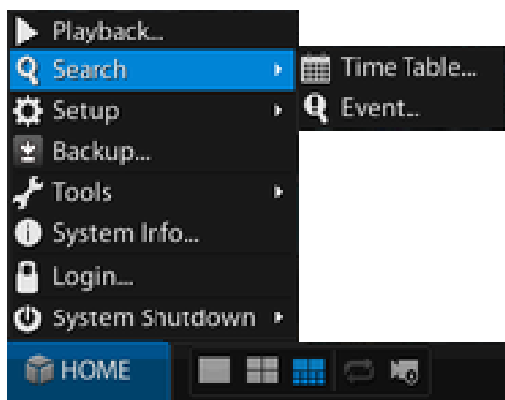
Task Bar

In Task Bar like below, users can setup and check the <HOME> menu and all <Information> status menus.

In [Context Menu>Always Show Task Bar], users can setup Task Bar always <Shown> or <Shown> by Mouse Move (like PC Window Task Bar)

When users can't see Task Bar, can setup all <Information> status menus in [Context Menu>Setup Information Display].

HOME Menu



Show and Setup Playback/Search/Setup, and other major menus like above

Screen Division Tool Bar



Setup and control Screen Division, Sequence (mode), Freeze and others like above

Information Status Tool Bar



Setup and Check current DVR's Status

- USB(Storage) Connection
- Backup Status
- Panic Record
- Mute
- Alarm, Buzzer Status
- Event Status
- Network Status
- Storage Status

Screen Division

Setup and Control Screen Mode of Display

Screen Division/Sequence/Freeze/Zoom

Screen Division

Mode - 1x1, 2x2, 3x3, 4x4, 1+5, 3+4, 1+7, 2+8, 1+12

Setup by [Context Menu>Screen] or Screen Division Tool Bar.

🟢 According to Model(CH), Screen Division will be different.

Sequence

Shows current Screen Division in sequence

Setup by [Context Menu>Screen] or Screen Division Tool Bar

Setup – Advanced Setup>Device>Display

Freeze

Freeze Live Display

Setup by [Context Menu>Screen>Freeze]

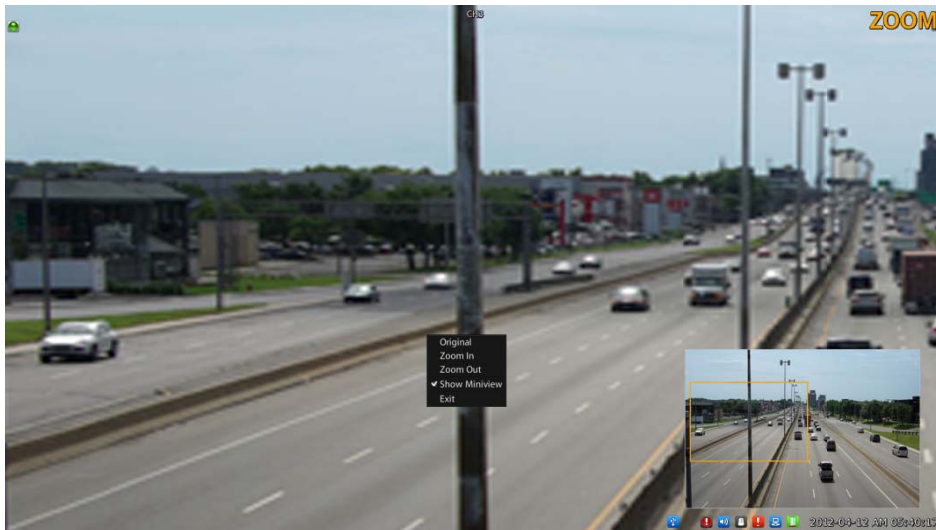
🟢 This stops by clicking another Screen Model automatically

Zoom(Digital)

Setup and control Zoom In Display.

Setup by [Context Menu>Control>Zoom]

🟢 In Zoo-In of HD-SDI CH, Mini View is not displayed.



Control by Mouse

- Double Click – Zoom-In by Click Point .(3rd Grade)
- Drag & Drop – Zoom-In wanted Area.(In Full Screen or Mini View Window like above)
- Scroll(Mouse Wheel) – Zoom-In or Zoom-Out current Display.(10th Grade)
- HD channels do not support the Mini View window.

Covert

Setup wanted CH(Camera) be covert(hidden).

Setup by [Context Menu>Control>Covert]

- ✔ In Covert, Recording continues.
- ✔ When Video Loss is occurred during Covert mode,<Covert> and <Video Loss> will be shown together.

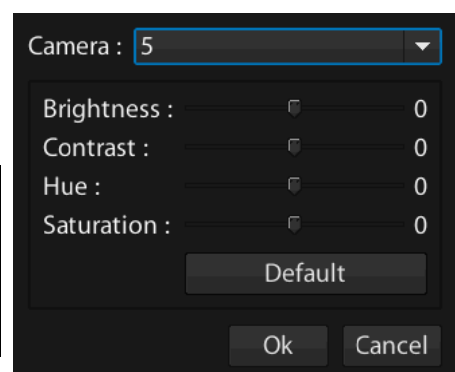
Color Control

Setup Display Colors

Setup by [Context Menu>Control>Color]

- ✔ Can't Setup Color of HD-SDI Camera

Brightness	Set Brightness
Contrast	Set Contrast.
Hue	Set Hue.
Saturation	Set Saturation.

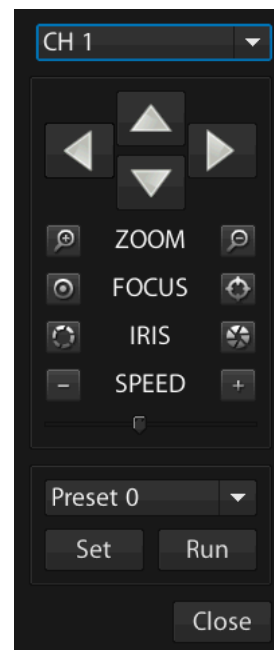


Pan/Tilt/Zoom

Setup and Control PTZ.

Setup by [Context Menu>Control>PTZ]

- ✔ For this, PTZ camera is installed and setup rightly.
- ✔ Preset Setup
 - Set Camera position by 4 direction button and Zoom and others like left picture.
 - Set Preset Number.
 - Click Set button.
 - After that, Window to ask <Position> like <Near> will be shown.
 - Set <Position> and click OK button.(It varies according to Camera)



Cameo Initialization

Setup Live Screen Camera Position as user wanted just by Drag & Drop.

Setup by [While clicking right button of mouse (more than 1 second), and just Drag & Drop to wanted position]

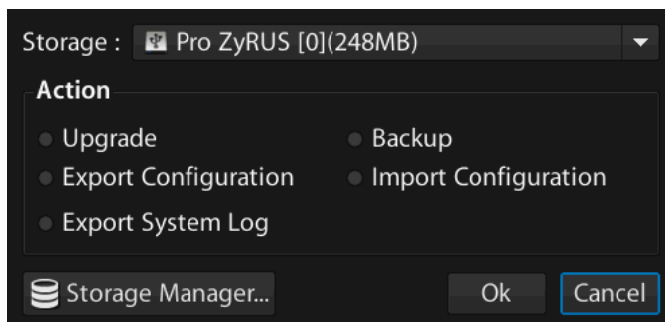
- ✔ When clicking the right button of mouse more than 1 second, Camera(like above) will be shown, then just Drag & Drop it to wanted position. In Live Display
- ✔ In some model, this feature does not work..
- ✔ This works only after <Log-In>.
- ✔ Setup to Initial by [Context Menu>Screen>Cameo Initial]

<Information> Status Menu

In <Information> Status menus on Task Bar, users can check and control each System Information.

USB Status

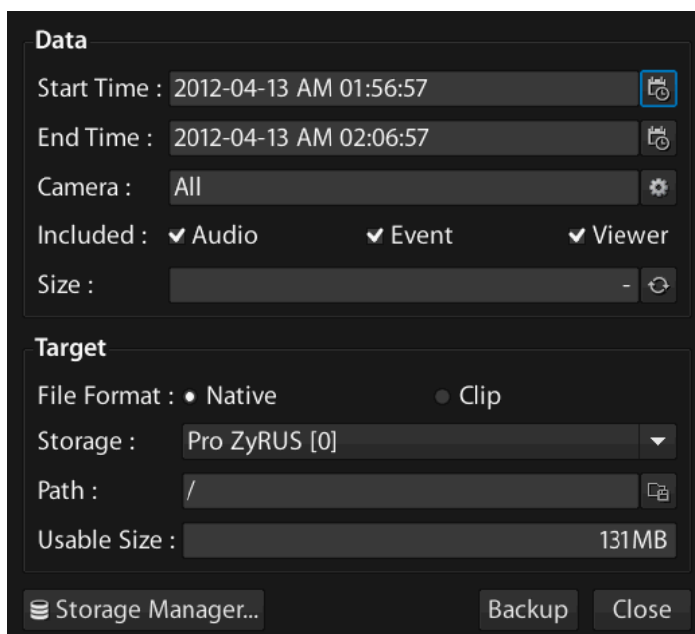
When connecting USG, this will be activated automatically.



By just selecting Device, users can Upgrade, Backup, Export/Import configuration and others like above.

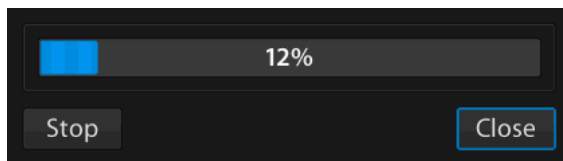
Backup Status

While backup, this will be activated.

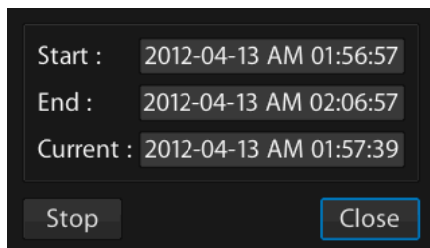


When backup or starting backup, users can check the status like below

Backup Progress Status



Backup Period Status



Emergency Recording Status

While Emergency Recording, this will be activated.

-  To stop Emergency Recording , Authorized Users have to <Log-In> . But Starting, any users can start.

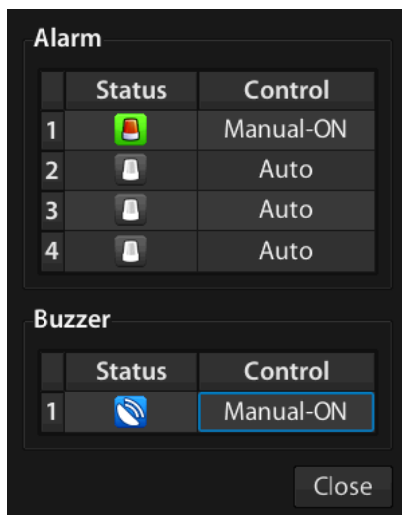
Audio Status

While Audio is working, this will be activated. By this, users can control <Audio On/Off>(Mute)

-  In Full 1CH Mode, Audio is working .

Alarm/Buzzer Status

While Alarm/Buzzer are working, this will be activated..



Can check and control Alarm/Buzzer like above.

Event Status

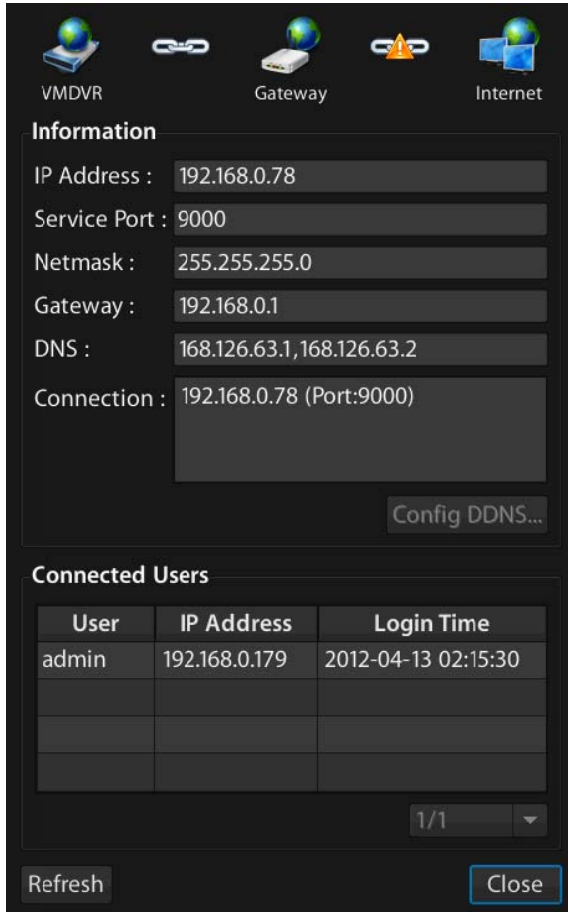
While Events(Motion Detection/Sensor/Video Loss) are working, this will be activated.



Can check and control each CH status at a glance.

Network Status

While Network is connected, this will be activated.



Information

IP Address : 192.168.0.78

Service Port : 9000

Netmask : 255.255.255.0

Gateway : 192.168.0.1

DNS : 168.126.63.1, 168.126.63.2

Connection : 192.168.0.78 (Port:9000)

[Config DDNS...](#)

Connected Users

User	IP Address	Login Time
admin	192.168.0.179	2012-04-13 02:15:30

1/1

[Refresh](#) [Close](#)

Can check and control currently connected Network detail information like above.

IP Address

Check and show connectible external IP address and Port (9000: Default)

UPnP(Universal Plug & Play)

When users use Hub(Router) to use Internet, UPnP function setups Port-Forward automatically in Hub(Router).

 In [Advanced Setup>Network>Port & Bandwidth], users can setup this on manual too.

DDNS

Automatic Setup of DDNS while connected to Internet

✔ In [Advanced Setup>Network>DDNS setup], users can setup this on manual too.

Error Status

 Router did not support UPnP and Port-forward.

 Unknown Gateway.

 Gateway is not connected to Internet

 Gateway is not connected to Internet or connection test failed

✔ Connection Test – Connection Test Server is running in Internets. It tests automatically the connection to DVR from external servers and show the test results.

Storage Status

Can check Backup Storage Status like below.

 No HDD or not formatted.

 Rewriting

Total Usage :  7%

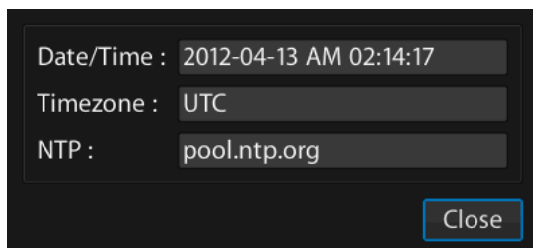
	Port	Name	Usage	Temp.	Status
	SATA1	ST32000641AS ATA	0%/2TB	55	Good
	SATA2	ST3160815AS ATA	99%/160GB	52	Good
	SATA3				
	SATA4				

 Storage Manager... Close

Can check each Storage Device's status like above,

Current Time

Check and manage current time.

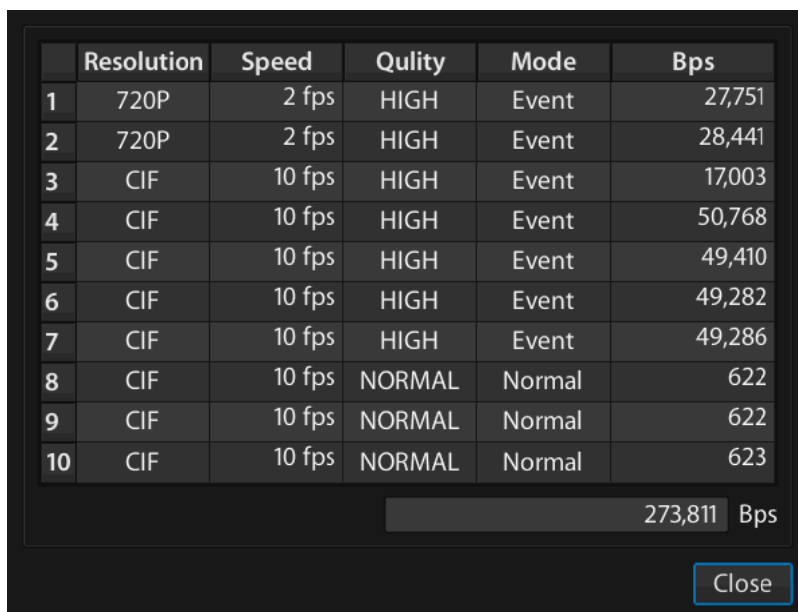


A dialog box with a dark background. It contains three input fields: 'Date/Time : 2012-04-13 AM 02:14:17', 'Timezone : UTC', and 'NTP : pool.ntp.org'. A 'Close' button is located at the bottom right.

Can check current time status like above.(Time Zone/ NTP address).

Recording Status

Can check each CH's Recording Status like below.



A dialog box with a dark background containing a table of recording status for 10 channels. Below the table is a progress bar showing '273,811 Bps' and a 'Close' button.

	Resolution	Speed	Quality	Mode	Bps
1	720P	2 fps	HIGH	Event	27,751
2	720P	2 fps	HIGH	Event	28,441
3	CIF	10 fps	HIGH	Event	17,003
4	CIF	10 fps	HIGH	Event	50,768
5	CIF	10 fps	HIGH	Event	49,410
6	CIF	10 fps	HIGH	Event	49,282
7	CIF	10 fps	HIGH	Event	49,286
8	CIF	10 fps	NORMAL	Normal	622
9	CIF	10 fps	NORMAL	Normal	622
10	CIF	10 fps	NORMAL	Normal	623

273,811 Bps

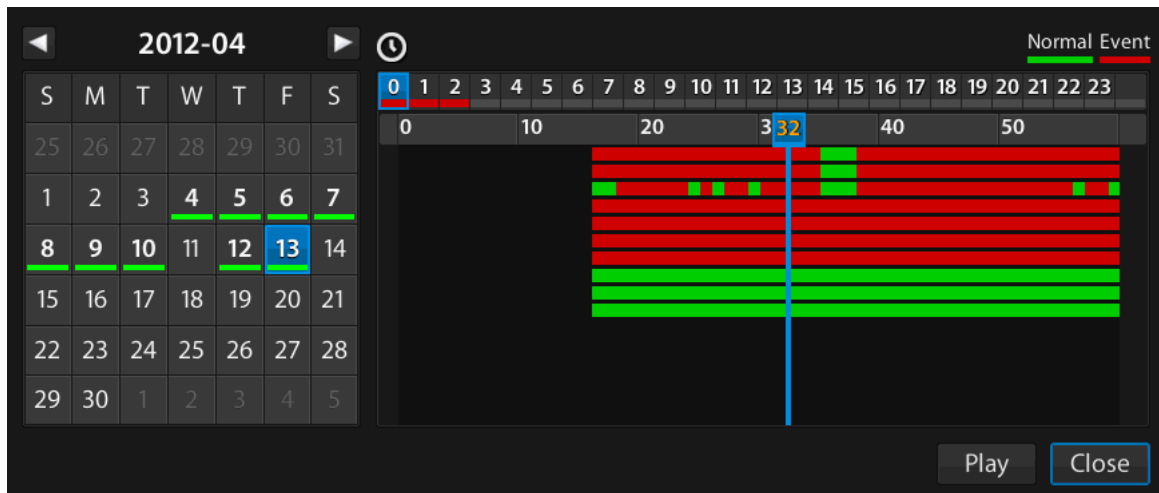
Check and control each CH detail like above (Resolution/Fps/Quality/Mode/Bps)

 Bps is automatically checked in every 10 second.

Search

Easily search and playback recorded data like below.

Time Table Search (Calendar)



Calendar

Can check and search Recorded data per day in Calendar. Select Year/Month in clicking Arrow Bar in Calendar.

Time Table

Can check and search Recorded data Time Table Bar according to Camera(CH).

Minute Table

Can check and search Recorded data by Time/Minute, and playback wanted Data just by double-click.

- ✔ Continuous Recording – **Green**
- ✔ Events(Emergency) Recording – **Red**

Overlap(Duplicated) Data

When overlap data is existed by Time Change on manual, these data are indicated as **<Orange>** in Minute Table. These could be playback by selection.

Event Search

The screenshot displays the 'Event Search' interface. On the left is a calendar for April 2012 (2012-04). The date '13' is selected and highlighted in blue. Below the calendar are three filter sections: 'Motion : All', 'Sensor : All', and 'Video Loss : All', each with a gear icon for settings. On the right is an event log table with three columns: 'Date/Time', 'Log', and 'Play'. The table contains 12 entries, all from '2012-04-13 AM'. The first seven entries are 'MOTION #1' through 'MOTION #7' at 12:16:48, 12:16:50, and 12:16:50. The next five entries are 'MOTION #1' through 'MOTION #5' at 12:17:05 and 12:17:08. Each entry has a right-pointing play button in the 'Play' column. Below the table are four navigation buttons: a double left arrow, a single left arrow, a single right arrow, and a double right arrow. A 'Close' button is located at the bottom right of the interface.

Date/Time	Log	Play
2012-04-13 AM 12:16:48	MOTION #1	▶
2012-04-13 AM 12:16:48	MOTION #2	▶
2012-04-13 AM 12:16:50	MOTION #4	▶
2012-04-13 AM 12:16:50	MOTION #5	▶
2012-04-13 AM 12:16:50	MOTION #6	▶
2012-04-13 AM 12:16:50	MOTION #7	▶
2012-04-13 AM 12:17:05	MOTION #1	▶
2012-04-13 AM 12:17:05	MOTION #2	▶
2012-04-13 AM 12:17:08	MOTION #4	▶
2012-04-13 AM 12:17:08	MOTION #5	▶

Calendar

When clicking a Date in Calendar, Event List is shown like above. Users can select wanted Event and Search and playback. . Select Year/Month in clicking Arrow Bar in Calendar.

Events

Select Event List Motion Detection/Sensor/Video Loss per CH and Search and Playback

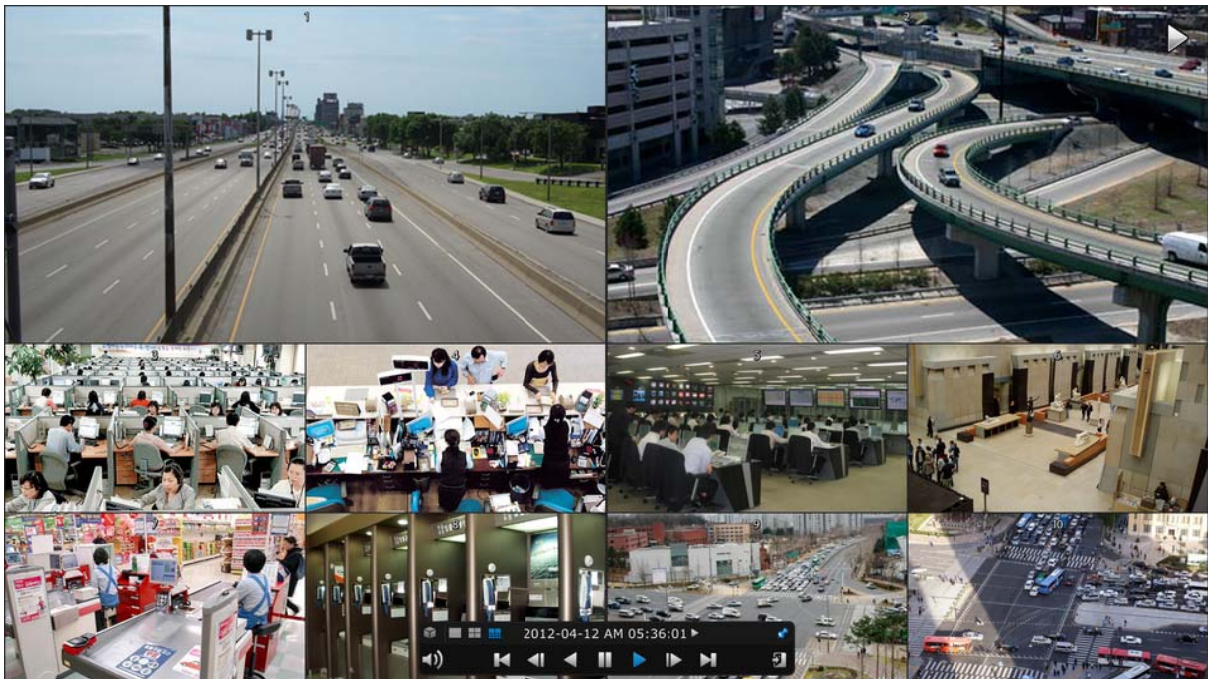
Event List

When selecting Events and search, users can get Event List like above. Select wanted Events and Playback instantly by clicking <Play> button..

- ✔ When Clicking <Play> button, each Video is playback.
- ✔ Events are showed by Time, all Video Data are playback.

Playback

Playback Screen Configuration

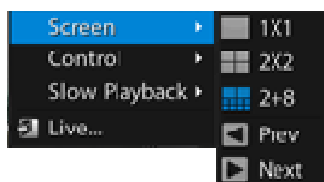


Playback Video

Video OSD

- Camera Name – Shows Camera Name(Title)
- Playback Mode – Shows current Playback

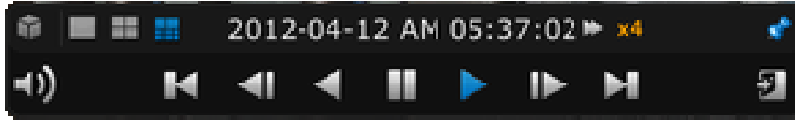
Context Menu



Setup Screen Division and others like above. It is shown by <Right button of Mouse> or Menu Key.

Playback Control

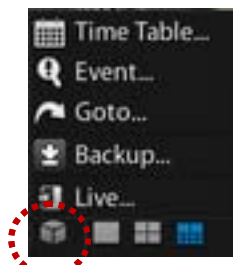
While Playback, users can control and search the data easily by Playback Control Bar like below.



By clicking this, users can make Playback Control Bar shown always on top(fixed) or shown only by mouse move.

Can change Position in [Context Menu].

HOME Menu



Setup and Control Search/Backup and other main features

Screen Division

Set Screen Division.

Mute (Audio)

Set Audio Mute

Exit

Exit to Live Display

2012-04-12 AM 05:37:02 x4 Playback Time & Status

Can check Time of Recorded Data (Playback Time) and Status

Playback Mode

By clicking Icons below, users can easily search and playback data

Icon(Button)	Name	Functions
	Pause	Pause Playback
	Playback	Backward/Forward Playback By clicking these button, it Fast Backward/Forward × In [Context Menu], users select Slow Backward/Forward.
	Step Backward/Forward	Moves Backward/Forward by one frame at a time
	Start/End	Goes to Start/End time of Data

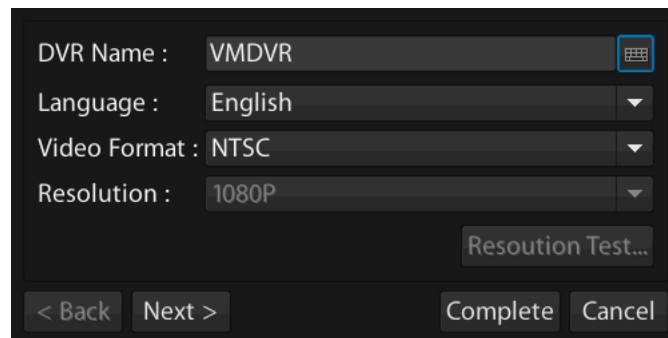
Setup

Quick Setup

Can Set <Setup> Menu quickly..

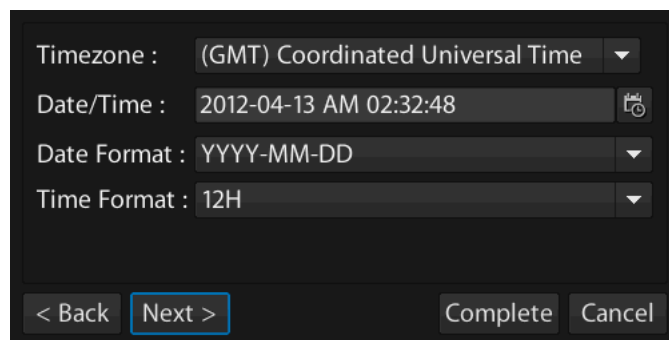
- ✔ When users don't change, default and previous values continue.

System Setup(1/3)



- DVR Name – Set DVR Name(Title)
- Language – Set OSD Language.
- Video Format – Set Video Format.(NTSC/PAL)
 - ✔ To save Changed Setup, system must restart.
- Resolution – Set Display Resolution according to Monitor and VGA.
 - ✔ When changed Resolution is not applied, previous Setup is applied.
 - ✔ **To us HD-SDI, 1080P(1920x1080) Resolution is Optimize. For this users have to check 1080P(1920x1080) Available in Monitor Specification.**

Time Setup(2/3)



Timezone : (GMT) Coordinated Universal Time ▼

Date/Time : 2012-04-13 AM 02:32:48 

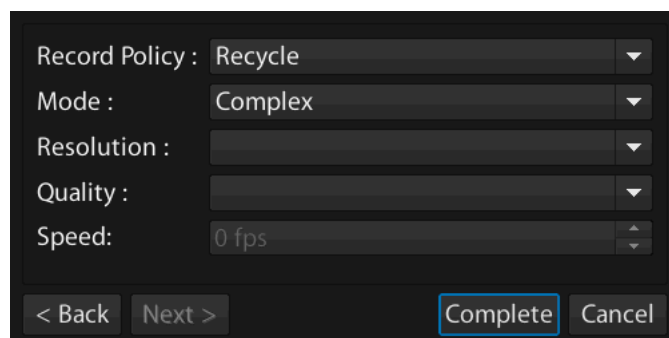
Date Format : YYYY-MM-DD ▼

Time Format : 12H ▼

< Back Next > Complete Cancel

- Date/Time : Set Time Zone according to Country.
- Date/Time: Must check your time zone and set this rightly first.
- Date Format : Set Date Format Y/M/D or D/M/Y.
- Time Format : Set Time Format 12H or 24H.

Recording Setup(3/3)



Record Policy : Recycle ▼

Mode : Complex ▼

Resolution : ▼

Quality : ▼

Speed: 0 fps ▲ ▼

< Back Next > Complete Cancel

- Record Policy – Recycle or , 1 회 녹화 선택(?)
- Mode – Continuous, Event, Complex(Continuous + Event) Mode
- Resolution – Set Recording Resolution CIF/D1/HD1 (HD-SDI 720P, 1024P, 1080P)
- Quality – Set Video Quality Lowest ~ Highest ,Total 5 Level
- Speed – Set FPS(Frame Per Second) for all Cameras(CH) by one click.

Advanced Setup

Setup all detail & advanced values in each Operation Setup Menu

System

The screenshot shows the 'System' setup menu with a dark theme. At the top, there are five tabs: 'System' (selected), 'Record', 'Network', 'Device', and 'Event'. The 'System' tab is active, displaying three sections: 'Information', 'Date/Time', and 'Account'. Each section contains several settings with their current values. At the bottom, there are buttons for 'Export...', 'Import...', 'Default...', and 'Close'.

Section	Setting	Value
Information	DVR Name	VMDVR
	Language	English
	Upgrade	Version 1.10
	Video Format	NTSC
Date/Time	Timezone	(GMT) Coordinated Universal Time
	Date/Time	2012-04-13 AM 02:35:59
	Format	YYYY-MM-DD 12H
	NTP	pool.ntp.org
	Holiday	2011-05-10(1 Holidays)
Account	Group	Administrator, Operator (2 Groups)
	User	admin (1 Users), Auto Logoff 5Min

Information

- DVR Name – Set DVR Name(Title) to identify.
 - Language – Set OSD Language.
 - Upgrade – Check the current firmware version and upgrade to up-to-date versions by USB or Network. (Refer to –Upgrade Chapter)
 - Video Format – Set NTSC/PAL
- 🌐 To save Changed Setup, system must restart.

- 🔔 **NB : When users change Resolution to Higher than Monitor supports, Monitor can't show Display. Before changing, please check available Resolution in monitor specification. Especially for 1080p HD-SDI.**

Date/Time

- Time Zone – Set GMT Time Zone according to Country.
- Date/Time – Set Date/Time according to country
- Date Format - Set Date Format Y/M/D or D/M/Y..
- NTP – Set NTP using and Time Server address.
- Holidays – Set Holidays.
- 🟢 When a day is set as Holiday, Recording mode is set as Sunday.

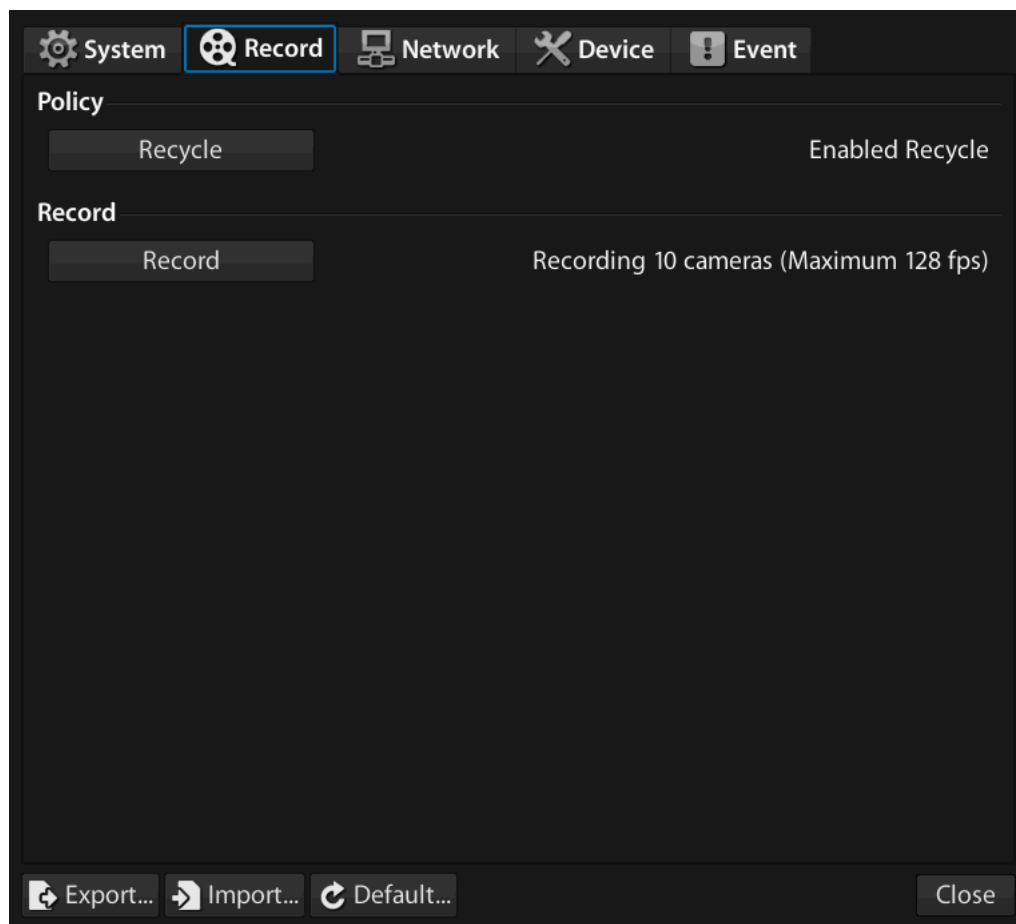
Account

- Group – Set and Manage Group(Admin/Operator).
- User – Set and Manage User and Automatic Log-Out.

🔔 Authority to Setup

Search	Can Search in Time Table and Events
Setup	Can set and change Setup
Backup	Can set and change Backup
Alarm	Can set and change Alarm
Buzzer	Can set and change Buzzer.
Color	Can set and change Color
Network	Can access by Remote Client
Upgrade	Can set and change Upgrade.
System shutdown	Can set System Shutdown
Cameo Init	Can set Cameo Init
Covert	Can set Covert.
Emergency	Can set and control Emergency Record
PTZ Control	Can set and manage PTZ control.
PTZ setup	Can set and manage PTZ Preset.
Disk Format	Can set and manage Disk Format.
Dual Audio	Can set and manage Dual-Audio.
Date/Time	Can set and manage Date/Time
Factory Default	Can set DVR to factory default
System Log View	Can check System Log
System Log Delete	Can delete System Log.

Record



Policy

- Recycle/One Time.

Record

Can set Record Mode/Resolution/Speed/Quality.

Ch	Mode	Normal	Event	Panic
All	Complex	Total 128fps	Total 128fps	Total 128fps
HD 1	Complex	720P,Medium,2fps	720P,High,2fps	720P,Highest,2fps
HD 2	Complex	720P,Medium,2fps	720P,High,2fps	720P,Highest,2fps
3	Complex	CIF,Medium,10fps	CIF,High,10fps	CIF,Highest,10fps
4	Complex	CIF,Medium,10fps	CIF,High,10fps	CIF,Highest,10fps
5	Complex	CIF,Medium,10fps	CIF,High,10fps	CIF,Highest,10fps
6	Complex	CIF,Medium,10fps	CIF,High,10fps	CIF,Highest,10fps
7	Complex	CIF,Medium,10fps	CIF,High,10fps	CIF,Highest,10fps
8	Complex	CIF,Medium,10fps	CIF,High,10fps	CIF,Highest,10fps
9	Complex	CIF,Medium,10fps	CIF,High,10fps	CIF,Highest,10fps
10	Complex	CIF,Medium,10fps	CIF,High,10fps	CIF,Highest,10fps

Ok Cancel

- Record Mode
 - No Record – Not Recording
 - Normal – Continuous Record.
 - Event – Events(Motion, Sensor, Video Loss) Recording.
 - Complex – Continuous Record(in Normal)+ Events Recording
 - Schedule –Record to Schedule.
- Schedule
 - Set Schedule for Recording.
- Normal
 - Set Resolution/Speed/Quality in Continuous Record.
- Event
 - Set Resolution/Speed/Quality in Event Record.
- Emergency
 - Set Resolution/Speed/Quality in Emergency Record.
 - ✔ Emergency Record starts by Panic button in Task Bar or Panic Key in front Panel.

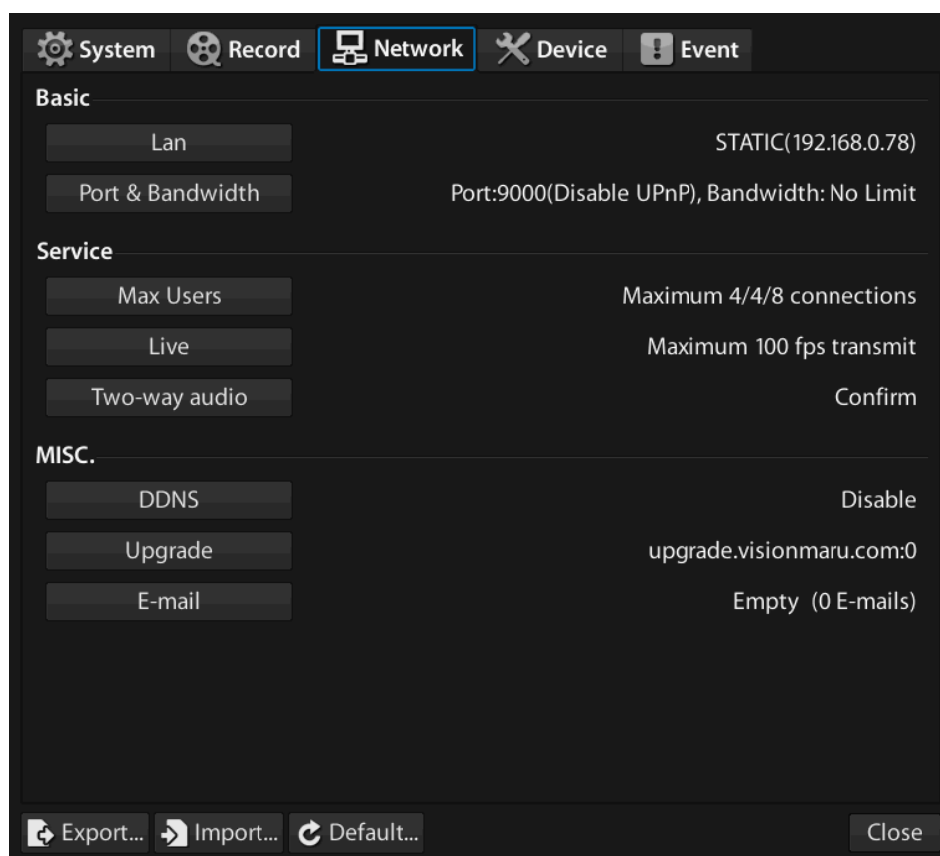
 Record Speed (FPS)

- According to Model/Resolution, Max Record Speed is automatically totaled.

					Max per CH						
			Max	In CIF	1008	1016	1108	1208	1404	1408	1400
N T S C	SD	CIF	480	X1	30						
		HD1	240	X2							
		D1	120	X4							
	HD	720P	40	X12			30	15	7	7	15
		1024P	30	X16			30	15	7	7	15
		1080P	20	X24			20	15	7	x	15
P A L	SD	CIF	400	X1	25						
		HD1	200	X2							
		D1	100	X4							
	HD	720P	40	X10			25	12	6	6	12
		1024P	30	X13			25	12	6	6	12
		1080P	20	X20			20	12	6	6	12

- When Total Record Speed is beyond Max, it is shown in The Cell, please set rightly again .

Network



Basic

- LAN – Set IP and DNS.
- Port & Bandwidth – Set access port & bandwidth and Auto Port-Forward.
-  Setup Values can be checked in Network Status Information Icon.
(Refer to -  Network Status)

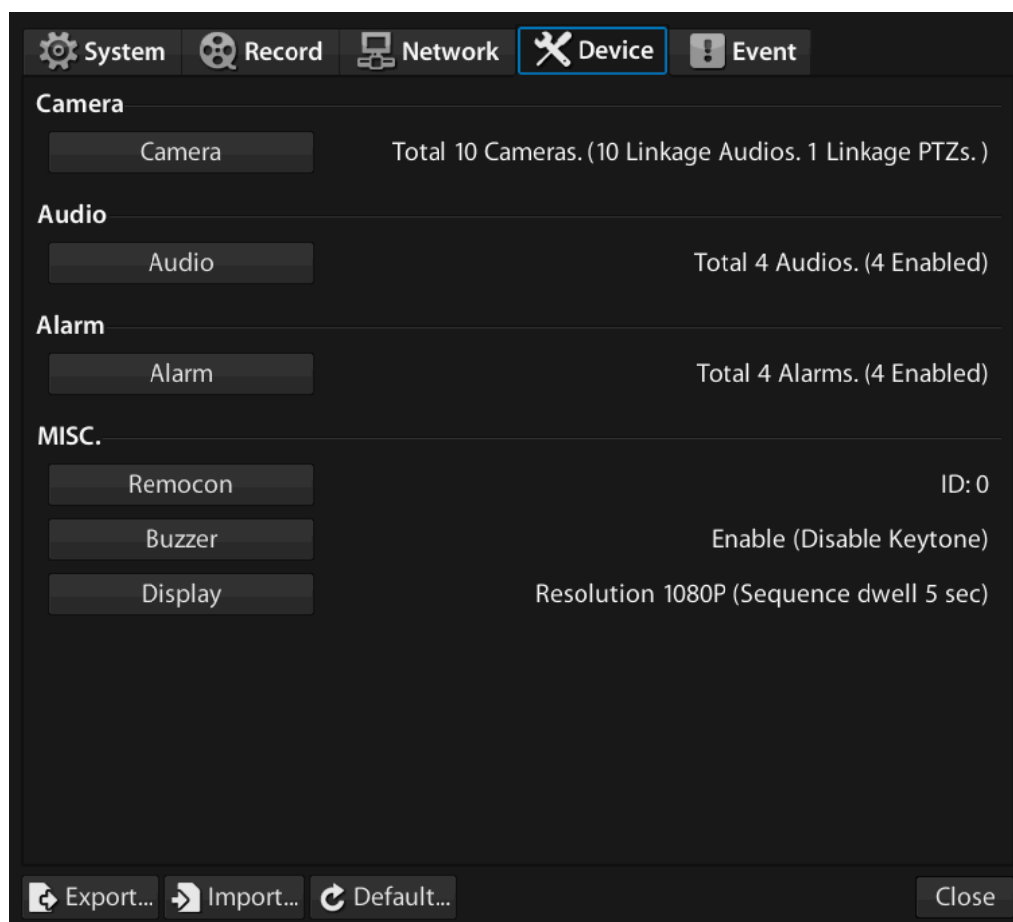
Service

- Max User – Set Max User at the same time.
- Live – Set Network Transmission Resolution/Quality/Speed(FPS) for each CH when remote access.
-  **Set each Network and DVR Streaming separately.**
- Dual Audio – Set Dual-Audio access mode.

ETC

- DDNS – Set DDNS use or unused.
 - ✔ Set DDNS address in Network Status Information Icon
(Refer to -  Network Status)
- E-mail – Send e-mail address in the event set.

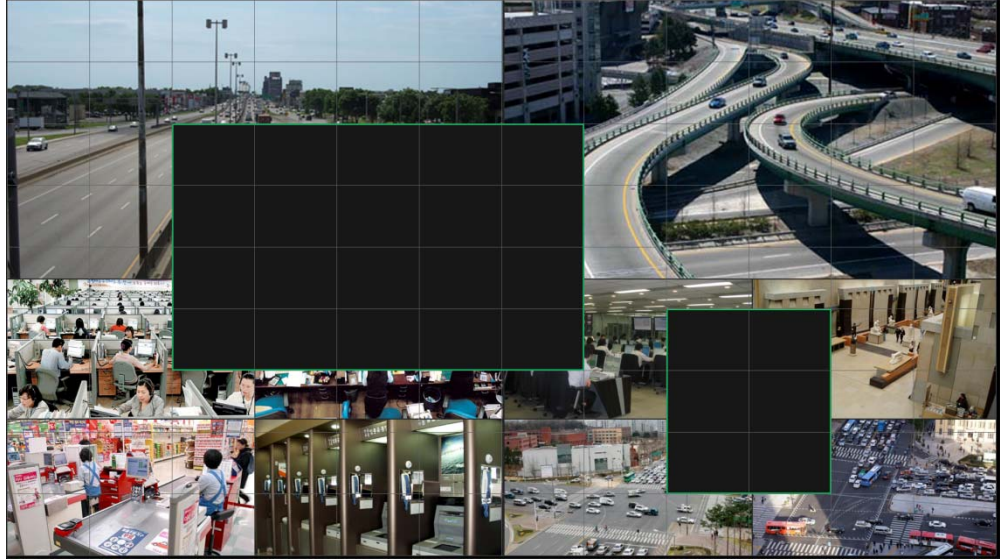
Device



Camera

- Camera – Set Camera Name and others.
- **Privacy Mask – Set Privacy Mask Areas.**
 - ✔ It is applied to Record Data.

- ✔ Areas (Max 4 Areas like below.)



Just by clicking Block or Drag & Drop, users can set or delete Areas .

Save and Exit to [Context Menu].

- Audio – Set and Check Audio for Record.
- PTZ – Set and Check PTZ .

Audio

- Set Audio.

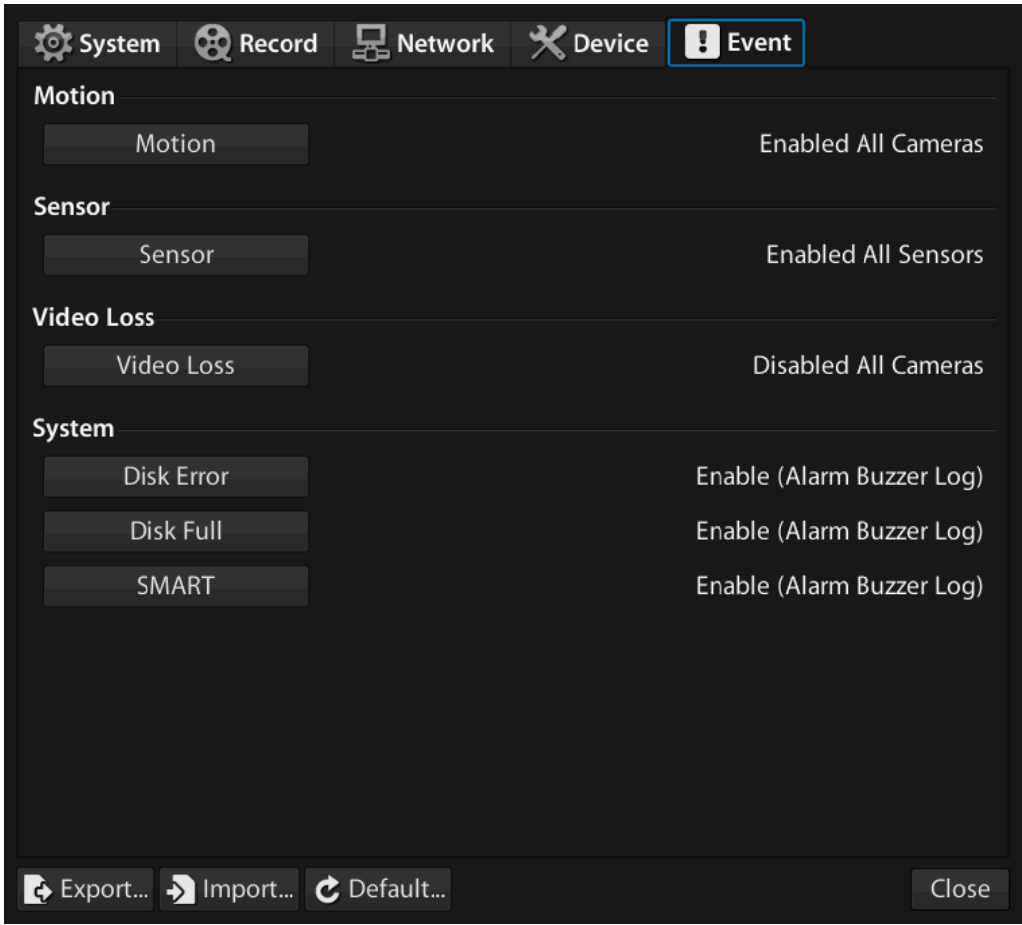
Alarm

- Set Alarm Name and others.

ETC

- Buzzer – Set Buzzer & Sound.
- Display – Set and manage Main(DVR)/Spot monitor's resolution and duration time for sequence model.

Event



Motion (Detection)

- Set Motion Detection Areas and Sensitivity.
- Set Event Synchronization (Integrated Action) with Alarm/Buzzer and others.
(Refer to -  Event Sync)

✔ Motion Detection Areas



Just by clicking Block or Drag & Drop, users can set or delete Areas .
Save and Exit to [Context Menu]..

Sensor

- Set Sensor detection.
- Set Event Synchronization (Integrated Action). (Refer to - ⓘ Event Sync)

Video Loss

- Set Video Loss.
- Set Event Synchronization (Integrated Action). (Refer to - ⓘ Event Sync)

System

- Disk Error – Set Use or Unused and Synchronization.
- Disk Full – Set Use or Unused and Synchronization.
- SMART – Set Use or Unused and Synchronization. (Refer to - ⓘ Event Sync)

ⓘ Event Sync (Synchronization)

While Events, users can link(Synchronize) that to actions(1:N) like below

- Record – Record in multiple camera(CH).
✔ Setup in [Record>Event Setup]
- Alarm– Activate Alarm in multiple camera(CH)..

- Buzzer – Activate Alarm in multiple camera (CH).
- Popup – Activate Pop-Up in Main or Spot Monitor.
- Email – Send email with images in Events.
 - ✔ Setup email address in [Network>Email setup].
- Log – Save Events Log and search them in Event Search.
 - ✔ System Events are saved in System Log [Home>Tools>System Log]

Export/Import Configuration

Export

Save current DVR's Configuration in USB.

Import

Import DVR's Configuration in USB, and apply this to current DVR

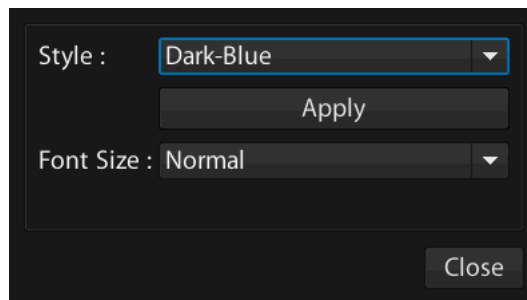
- ✔ System Reboots.

Default

Apply Factory Default.

- ✔ System Reboots.

Look & Feel



Style

Can Set and Mange UI Style just like desktop wallpaper theme.

🟢 Looook and set ...Dark Gray ~ Dark Orange.

Font

Set Font and Size.

Set Big/Normal/Small.

Tools

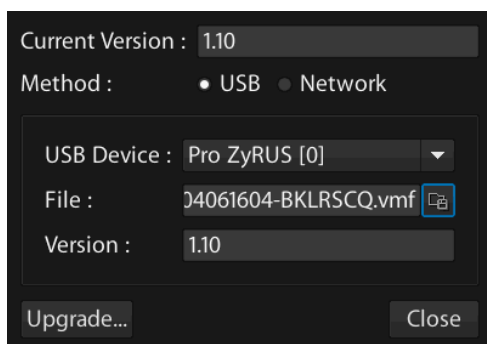
Upgrade (Firmware)

In [HOME>Tools>Upgrade] or [Advanced Setup>System>Upgrade], users can upgrade firmware. Upgrade starts after download from Network or file Copy from USB, and after full upgrade DVR reboots again.

✔ So restarts 2 times for full upgrade.

USB

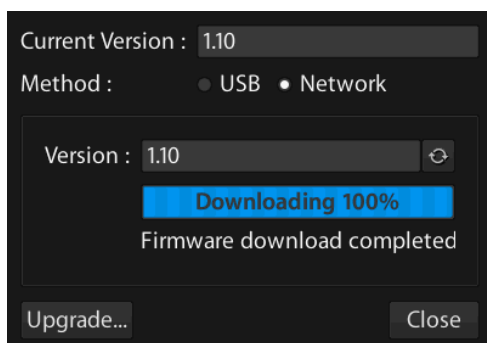
Choose USB and upgrade.



The screenshot shows a dark-themed dialog box for upgrading firmware via USB. At the top, 'Current Version' is set to '1.10'. Below it, 'Method' has two radio buttons: 'USB' (selected) and 'Network'. A section for USB settings includes 'USB Device' set to 'Pro ZyRUS [0]', 'File' set to '04061604-BKLRSCQ.vmf' with a file icon button, and 'Version' set to '1.10'. At the bottom are 'Upgrade...' and 'Close' buttons.

Network

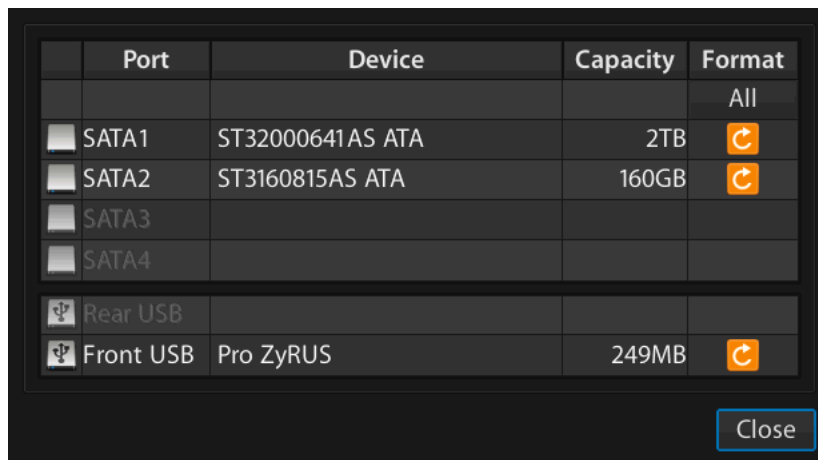
Choose Network upgrade and download latest firmware and upgrade.



The screenshot shows a dark-themed dialog box for upgrading firmware via Network. 'Current Version' is '1.10'. 'Method' has two radio buttons: 'USB' and 'Network' (selected). A section for Network settings includes 'Version' set to '1.10' with a refresh icon. Below this, a blue progress bar indicates 'Downloading 100%', and the text 'Firmware download completed' is shown. At the bottom are 'Upgrade...' and 'Close' buttons.

✔ Please use USB when Network is slow or not steady.

Storage Manager



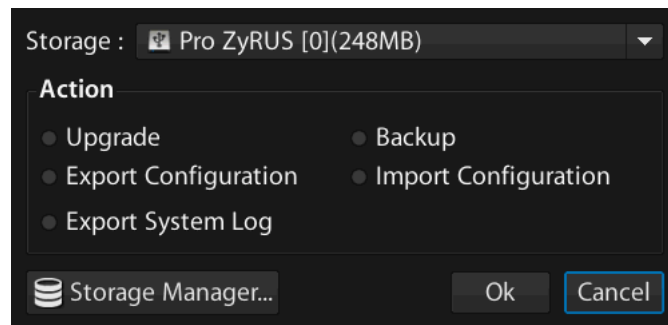
	Port	Device	Capacity	Format
				All
	SATA1	ST32000641AS ATA	2TB	
	SATA2	ST3160815AS ATA	160GB	
	SATA3			
	SATA4			
	Rear USB			
	Front USB	Pro ZyRUS	249MB	

Close

Can check internal Storage(SATA HDD) and USB external Storage together and massage & format.

- 📘 All format is available only for Internal(SATA).
- 📘 When installed unformatted new HDD, "New" HDD Icon is shown.
- 📘 When format new HDD, it is added to new HDD for recording.
- 📘 For DVD backup, around 5G of HDD is dedicated to this purpose.

External Storage



Select Storage and do Upgrade/Backup/Export/Import Configuration and others like above.

System Log

Date/Time	Level	Log
2012-04-13 AM 02:15:36	Network	admin logout from 192.168.0.179.
2012-04-13 AM 02:36:52	System	admin logout from local machine.
2012-04-13 AM 02:37:01	System	Player stop.
2012-04-13 AM 02:38:15	System	admin login from local machine.
2012-04-13 AM 02:41:18	System	admin logout from local machine.
2012-04-13 AM 02:41:24	System	Player stop.
2012-04-13 AM 02:42:12	System	admin login from local machine.
2012-04-13 AM 02:50:21	System	NTP: System time is synced from pool.ntp.org.
2012-04-13 AM 02:50:22	System	Time synced to rtc.
2012-04-13 AM 02:50:24	System	NTP: System time is synced from pool.ntp.org.
2012-04-13 AM 02:50:24	System	Time synced to rtc.
2012-04-13 AM 02:57:54	System	admin logged out.
2012-04-13 AM 02:57:54	System	admin logout from local machine.
2012-04-13 AM 02:58:56	System	admin login from local machine.
2012-04-13 AM 02:59:16	System	Date/Time change to 2012-04-26 02:59:23
2012-04-26 AM 02:59:23	System	Time synced to rtc.



Clear...Export...Close

Can check and manage/playback System Log and save to external Storage or delete.

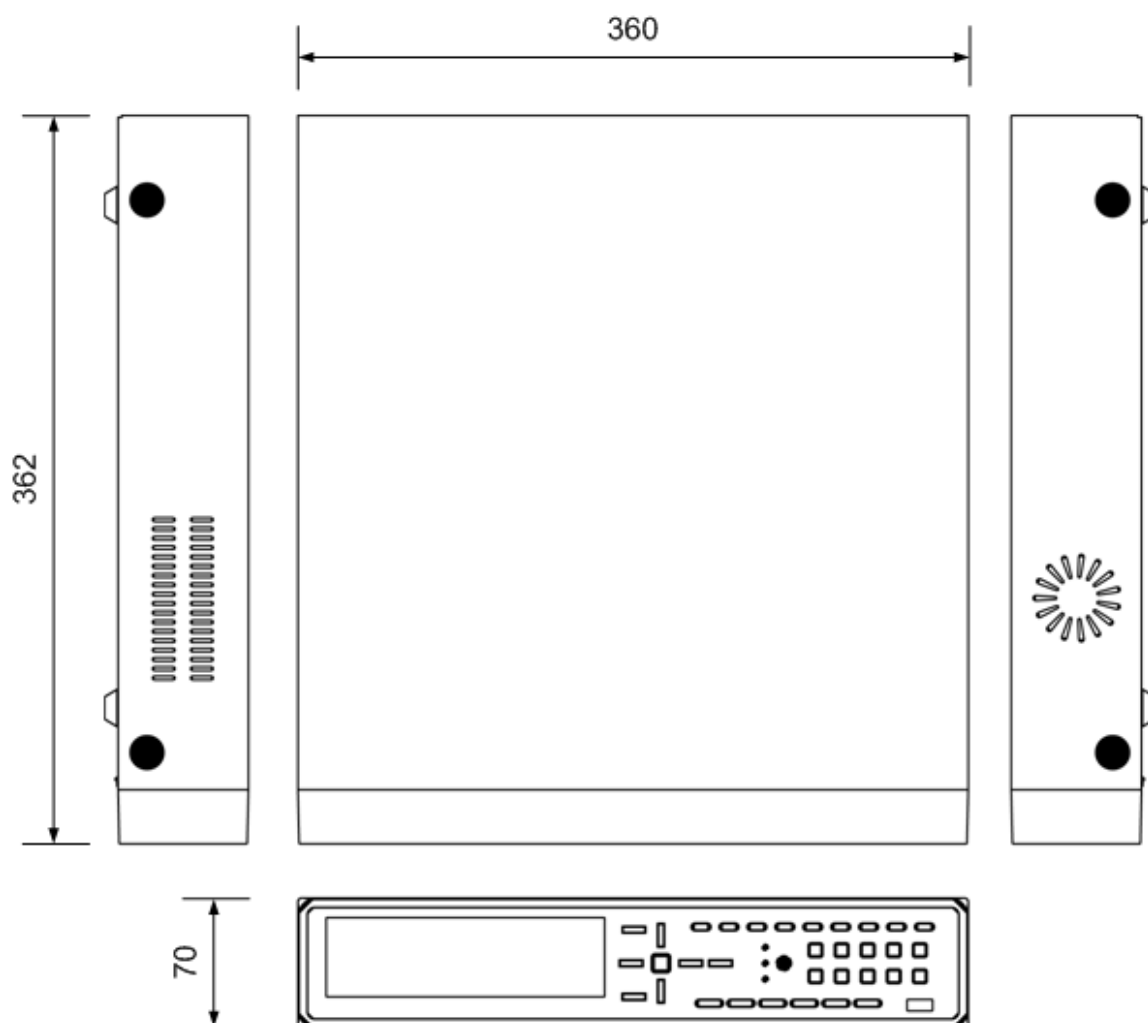
Appendix

FAQ (Q&A)

Symptom	Check Point
The system does not turn on and the indicator on the front panel does not work at all.	• Check if the power supply system is properly connected. • Check the system for the input voltage from the power source. • If the problem persists even after you have taken the above actions, check the power supplier and replace it with a new one if necessary
Some channels display just a black screen even if they receive video sources.	• Check if the camera connected to the system properly displays the image. Sometimes, this problem may occur on a camera that is not properly connected to the video source. • Check if the camera is properly supplied with power. • Sometimes, this problem may occur on a channel with weak video signal from a video distributor that is connected to multiple systems. In this case, input the video source of the camera directly into the DVR. This may find the cause and solve the problem. • Check Monitor 1080p available when using HD-SDI camera
HD-SDI camera does not work properly	• Check whether using exclusive HD-SDI Cable • Check whether using exclusive HD-SDI BNC .
Record does not work properly	• Check Record Mode. • When Event Record, check Event Setup and Event Sync. • Check OSD Record ICON • Check whether HDD is working properly.

Product Dimensions

Unit : mm



Warranty

According to Rule & Laws, we confirm the product warranty like below. But this detail can be changed and varies according to countries and agreement between Manufacture and Dealers.

When damaged goods or malfunction, please check FAQ first and contact dealer for details.

[Product Information]

Product	DVR (Digital Video Recorder)
Model	
Serial No.	
Purchase Date	D M Y
Where/Purchase	

[Detail]

This product is manufactured through strict quality control and process inspection.

One-Year Warranty

This product carries a one year warranty from the date of purchase against defects from any cause except acts of abusive use. During this warranty period, the manufacturer will repair or exchange the product free of charge, except HDD and ODD and Adaptor

Paid Service

The manufacturer provides service outside of the warranty period for damage caused by the user. Please contact customer service for more information and prices.

[Contact Detail]

Tel : 82-70-8717-1001

Fax : 82-2-6095-1969

Homepage : www.brobiz.co.kr

E-mail : joseph@brobiz.co.kr