Stand Alone Digital Video Recorder

Realtime DVR 4/8/16 Channel Models

User's Manual



PDHD3-V2.08-o199 This document contains preliminary information and is subject to change without notice.

FCC Compliance Statement

Notice to Users: This equipment has been tested and found to comply with the limits for a Class A digital device. Pursuant to Part 15 of the FCC Rules, these limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

The equipment complies with the requirement of FCC CFR 47 PART 15 SUBPART B, Class A.

Explanation of Graphical Symbols



This symbol indicates the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.



This symbol indicates the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



Warnings

- O Installation and servicing should be performed only by qualified and experienced personnel.
- Power off the DVR when connecting cameras, audio, or sensor cables.
- The manufacturer is not responsible for any damage caused by improper use of the product or failure to follow instructions for the product.
- The manufacturer is not responsible for any problems caused by or resulting from the user physically opening the DVR for examination or attempting to fix the unit.

• The manufacturer may not be held liable for any issues with the unit if the warranty seal is removed.

Cautions

- This product has multiple-rated voltages (110V and 220V). See installation instructions before connecting to the power supply.
- This product uses a Lithium battery.
- To avoid any risk of explosion, do not replace the battery on the main board by anything other than a Lithium battery.
- O Dispose of used batteries according to the manufacturer's instructions.
- This equipment and all communication wirings are intended for indoor use only.
- To reduce the risk of fire or electric shock, do not expose the unit to rain or moisture.

WEEE(Waste Electrical and Electronic Equipment)



Customers in European Union countries are advised to dispose this product, at the end of its useful life, as per applicable local laws, regulations and procedures.

Important Safeguards

- 1. Read Instructions
- All safety and operating instructions should be read before the appliance is operated.
- 2. Retain Instructions
 - The safety and operating instructions should be retained for future reference.
- 3. Cleaning

Unplug this equipment from the wall outlet before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

4. Attachments

Never add any attachments and/or equipment without manufacturer approval as such additions may result in the risk of fire, electric shock, or other personal injury.

- 5. Water and/or Moisture
 - Do not use this equipment near water or in contact with water.

6. Accessories

Do not place this equipment on an unstable cart, stand, or table. The equipment may fall, causing serious injury to a child or adult and serious damage to the equipment.

Wall or shelf mounting should follow the manufacturer's instructions and should use a mounting kit approved by the manufacturer.



Move this equipment and cart combination with care. Quick stops, excessive force and uneven surfaces may cause the equipment and cart combination to overturn.

7. Power Sources

This equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your distributor or local power company.

8. Power Cords

Operator or installer must remove power, BNC, alarm and other connections before moving the equipment.

9. Lightning

For added protection for this equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the equipment due to lightning and power-line surges.

10. Overloading

Do not overload wall outlets and extension cords to avoid the risk of fire or electric shock.

11. Objects and Liquids

Never push objects of any kind through openings of this equipment as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the equipment.

12. Servicing

Do not attempt to service this equipment yourself. Refer all servicing to qualified service personnel.

13. Damage Requiring Service

Unplug this equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or the plug has been damaged
- If liquid is spilled or objects have fallen into the equipment
- If the equipment has been exposed to rain or water

• If the equipment does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the equipment to its normal operation.

- If the equipment has been dropped or damaged the cabinet.
- When the equipment exhibits a distinct change in performance—this indicates a need for service.

14. Replacement Parts

When replacement parts are required, ensure the service technician uses replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

15. Safety Check

Upon completion of any service or repairs to this equipment, ask the service technician to perform safety checks to determine that the equipment is in proper operating condition.

16. Field Installation

This installation should be made by a qualified service person and should conform to all local codes.

17. Correct Batteries

WARNING

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

18. Operating Temperature

An operating temperature range is specified so that the customer and installer may determine a suitable operating environment for the equipment.

19. Elevated Operating Ambient Temperature

If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the specified operating temperature range.

20. Reduced Air Flow

Installation of the equipment in the rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.

21. Mechanical Loading

Mounting of the equipment in the rack should be such that a hazardous condition is not caused by uneven mechanical loading.

22. Circuit Overloading

Consideration should be given to connection of the equipment to supply circuit and the effect that overloading of circuits might have on over-current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

23. Reliable Earthing (Grounding)

Reliable grounding of rack mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (for example, use of power strips).

THE LIST OF CONFIGURATION

DVR Set	O O O O NO IGITAL VIDEO RECORDER
CD (Software/Manual)	
User's Manual	
HDD Screws	
Remote Controller	
HDD Brackets	C C
Data Cable (SATA Cable)	
Power Cable	

Operation Precautions

O Power Off

- Do not turn DVR off, or plug off the power adapter while <u>DVR is in operation (record/playback)</u>. Otherwise, it may cause permanent damage to the equipment. Please click (↔) SETUP>SYSTEM>Shutdown sequentially and then remove the power after DVR is shutdown completely. It is safe to wait for 5 seconds before turning the power on again.
- Do not turn DVR off, or plug off the power adapter while <u>External storage device (e.g., USB memory stick, removable external hard disk and the like)</u> in use. Otherwise, it may cause permanent damage to the equipment. Make sure that the power switch is in the "ON" position until data storage is completed. Please be aware that removing the storage device cause the same damage to the equipment.
- Do not turn DVR off, or plug off the power adapter <u>during the format of the hard disk</u>. Otherwise, it may cause permanent damage to the equipment. Make sure that the power switch is in the "ON" position until the formatting of the disk is completed.

• HDD Installation/Addition/Moving/Replacement/Removal

- For installation/addition/replacement/Removal of HDD, make sure that DVR is turned off. Otherwise, it may cause permanent damage to the HDD.
- When you want to power DVR off, please click (↔) SETUP>SYSTEM>Shutdown sequentially and then remove the power after DVR is shut down completely.
- Installation/Addition/Moving/Replacement: You should start 'HDD initialization' including formatting. Otherwise, DVR won't recognize the hard disk and may begin to function abnormally. Please follow the below procedure for 'HDD initialization'.

(1) (Date/Time setup) Set up the current date and time (SETUP>SYSTEM>Admin>Date/Time).

- ② (Initialization of system setup) All setup values are restored to original factory default settings. (SETUP>SYSTEM>Information>Status>Setup>Default).
- ③ (HDD format) HDD format is done by SETUP>SYSTEM>Admin>Storage>Format. If there are more than two HDDs, each must be formatted, separately. When the format is completed, DVR will auto-reboot.
- Removal: Follow the Remove procedure even when a pre-installed hard disk has been removed. SETUP>SYSTEM>Admin>Storage>Format, click (+) 'Removed' item under the discrete Format headings of a corresponding HDD to discard 'HDD' item. When the Remove procedure is completed, DVR will auto-reboot.

O Date/Time Change

- Any change in Date/Time is immediately applied onto live video (LIVE), but the date/time when the recording was done are not changed.
- Make sure that you reboot DVR after adjusting the Date/Time.
- Also, do not forget to execute SETUP>SYSTEM>Shutdown in sequence before reboot.

O Upgrade

• Do not upgrade until you install a hard disk drive. Make sure you upgrade when the hard disk drive is in proper operation.

• Using a Mouse

- Left mouse button: have the same function as Enter (↔) on the Front panel of DVR
- Central button (wheel): have the same function as Search key on the Front panel of DVR(display search menu)
- **Right mouse button:** display a number of 'Function keys' (please see 'Input Device and Screen Icons>Using a mouse' in this manual)

• PLAY/PAUSE Key

- Press the **PLAY/PAUSE** key to one-touch playback on the viewing screen (playback the recorded video from the last one minute).
- Every time you press the **PLAY/PAUSE** key during playback mode, it is changed to '1X PLAY' and 'PAUSE'. The displayed sign on the screen also changes from ▶ to **II**.
- If you want to change mode (1X PLAY, REW, FF, BACKWARD, FORWARD) during playback, always press the **PLAY/PAUSE** key first (please see if the sign **II** is shown on the screen).
- Press the **PLAY/PAUSE** key to back up. Make sure that the backup is done in 'PAUSE' mode.

• Camera Title

 Camera Title displayed in Record and Playback modes of DVR is set to CAM1 ~CAM16. Registering camera title in setup menu (DEVICES>Camera/PTZ>Title) is to make every setup process easier.

Table of Contents

DVR

1.	Product Features	8
1.1	Unpacking	8
1.2	Service	8
1.3	System Connection Diagram	
2.	Installation	9
2.1	Hard disk Installation	9
2.1.1	SATA Port	9
2.1.2	No Jumper Designation	9
2.1.3	HDD Installation	
2.2	Connector Wiring	9
2.2.1	Video In/Out Connections	
2.2.2	Monitor Connections	
	(Video Out, VGA, SPOT)	-
2.2.3	Audio Connections	
2.2.4	TCP/IP(Ethernet) Connections	9
2.2.5	Alarm Connections	
2.2.6	RS-485/422 Connections	10
2.2.7	USB Connections	10
2.2.8	Factory Reset Switch	10
2.2.9	Power Supply Connections	
2.2.10	Connection Guideline	
3.	Input Device and Screen Icons	11
3.1	Front	
3.2	Using a Mouse	11
3.3	Screen Icons	
4.	Setup	12
4.1	Login/Logout	12
4.2	SYSTEM	13
4.2.1	Information	13
	Status	
	Version	
	Record	
4.2.2	Admin	16
	Date/Time	
	NTP	
	Storage	
4.2.3	Account	19
	New Group	
	Login Settings	
	New User	
4.2.4	System Log	21
4.2.5	Exit	
4.2.6	Shutdown	22
4.0		
4.3	DISPLAY	22

4.3.1	OSD	22
4.3.2	Main Monitor	23
	Full Seq	
4.3.3	Spot Monitor	24
4.3.4	Spot Monitor Control on Display Mode	
4.4	DEVICES	
4.4.1	Network	24
	LAN	
	DDNS	
	Port	
	Notification	
4.4.2	Camera/PTZ	27
4.4.3	Audio	28
4.4.4	Alarm In	28
4.4.5	Alarm Out	29
4.4.6	Serial In	29
4.5	RECORD	
4.5.1	Settings	30
	Continuous	
	Event	
	Emergency	
4.5.2	Schedule	31
4.5.3	Pre Alarm	32
4.5.4	Motion Detection	33
4.5.5	Holiday	33
4.6	LINK	34
4.6.1	Alarm In	34
4.6.2	Motion Event	35
4.6.3	Video Loss	35
4.6.4	System Event	
4.6.5	Popup Link	36
5.	Operation Instruction	27
5 .1	Viewing	
5.1.1	First Image	
5.1.2	View Formats	
5.1.3	Digital Zoom	
5.1.4	Freeze Live Image	
5.1.5	Pan/Tilt Control	
5.1.6	System Log	
5.1.7	Emergency Recording	
5.2	Search	
5.2.1	Date/Time Search	
5.2.1	Calendar Search	
5.2.2	Event Search	
5.3	Playback	
5.4	One-touch Playback	
5.5	Archive	
0.0	/	

5.6 5.7	Color Control and Position Alarm Out Control		
	CMS		
6.	Program Installation	47	
6.1	System Recommendation		
6.2	Program Installation Method		
6.3	Login		
7.	Function and Instructions	49	
8.	Watch Mode		
8.1	Login Screen		
8.2	Local Setting		
8.2.1	System Setup	50	
8.2.2	Remote Site	51	
8.3	Live Video	53	
8.3.1	Network Connect	53	
8.3.2	Watch Mode	-	
8.3.3	Multi Screen		
8.3.4	Screen Color Adjustment	55	
8.3.5	Audio		
8.3.6	System LOG	55	
8.3.7	Alarm Out	56	
8.3.8	One Touch Recording	56	
8.4	PTZ Control	56	
8.5	Health Check	57	
8.5.1	Camera Connection and Operating Status	58	
8.5.2	HDD Connection and Its Operating Status		
8.5.3	Recording Status		
8.5.4	Motion Recording Status	58	
8.5.5	Alarm In Connection and Operating Status	58	
8.5.6	Alarm Out Connection and Operating Status	58	
8.6	Remote Setting	58	
9.	Search Mode	60	
9.1	Search Screen	60	
9.2	Remote Search	60	
9.3	Local Search	61	
9.4	Event Search	61	
9.5	Playback	62	
9.5.1	Playback Control Button	62	
9.5.2	Print	62	
9.5.3	Save	63	
9.5.4	Archive	64	
10.	Others	66	
10.1	Viewer	66	
10.2	Е Мар	66	
10.3	Watermark Check System	67	
10.4	Estimator	68	
10.5	EXE to AVI Converter 6		

Keyboard Controller

11.1	Connection 70
11.1.1	Configuration Diagram 70
11.1.2	Configuration Diagram 70
11.1.3	Configuration Diagram III 70
11.2	Keyboard Setup in DVR 70
11.3	Keyboard Configuration71
11.4	Operation 71
11.4.1	DVR / PTZ Mode Conversion 71
11.4.2	DVR Control Mode 72
11.4.3	PTZ Control Mode72

Serial In

12.1	Usage of Serial-In Function 75
12.2	Connection method in each series 75
12.3	Connection Diagram 75
12.4	Link 76
12.4.1	Link Setup 76
12.4.2	Schedule Setup 77
12.5	Setup 77
12.0	
12.5.1	Title 78
	•
12.5.1	Title 78
12.5.1 12.5.2	Title 78 Port Setting 78
12.5.1 12.5.2 12.5.3	Title 78 Port Setting 78 OSD Display 78

CMS Web Client

13.1	Setup and Login	82
13.2	Live Display	87
13.3	Playback Screen	87

CMS Mobile

14.1	Setup and Login	86
14.2	Installation	86
14.3	Site Configuration	88
14.4	Connect	89
14.5	Uninstall	90

1. Product Features

1.1 Unpacking

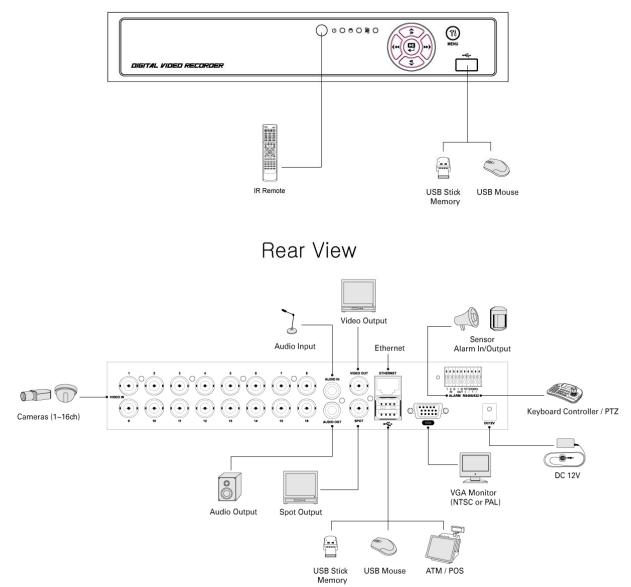
- This equipment is an electronic appliance, so it should be handled with special care.
- After unpacking, please check if all the following items are included.
 - DVR Main body
 - Power Supply Adapter (DC 12V, 3.33A) and Power Supply Cable
 - Installation CD (CMS Software & User's Manual)

1.2 Service

• If there is any problem in the product, please refer servicing to a supplier or a distributor with qualified service personnel.

1.3 System Connection Diagram

4 / 8 / 16 Channel DVR



Front View

2. Installation

2.1 Hard disk Installation

2.1.1 SATA Port

- Main substrate of this DVR has one SATA port: it is indicated as SATA 1.
- Only one SATA device (hard disk) is possible to connect in Serial to the SATA port.

	Storage	SATA Port
	HDD	1
4 / 8 / 16 Channel DVR	1	HDD

2.1.2 No Jumper Designation

• SATA device does not use jumper. Only need to connect SATA device to SATA port according to HDD. A connector for designation is located between the 7-pin SATA connector and the 15-pin Power connector.

2.1.3 HDD Installation

- Securely fix a hard disk by using bracket and screws provided herewith.
- Please do not use any different hard disk cables (data cable and power supply cable) other than ones we provide. Otherwise, it may cause damage to the hard disk.

CAUTION

Install hard disk after DVR power is off. Otherwise, it may cause permanent damage to the hard disk. To turn off DVR, please click (+) SETUP>SYSTEM>Shutdown. Also, wait for 5 seconds before plugging in power supply again.

CAUTION

- For installation/addition/replacement/Removal of HDD, make sure that DVR is turned off. Otherwise, it may cause permanent damage to the HDD.
- Installation/Addition/Moving/Replacement: You should start 'HDD initialization' including formatting. Otherwise, DVR won't recognize the hard disk and may begin to function abnormally. Please follow the below procedure for 'HDD initialization'.

(1) (Date/Time setup) Set up the current date and time (SETUP>SYSTEM>Admin>Date/Time)

- ② (Initialization of system setup) All values in setup are restored to factory default settings (SETUP>SYSTEM>Information>Status>Setup>Default).
- (3) (HDD format) HDD format is done by SETUP>SYSTEM>Admin>Storage>Format. If there are more than two HDDs, each must be formatted, separately. When the format is completed, DVR will auto-reboot.
- **Removal:** Follow the Remove procedure even when a pre-installed hard disk has been removed. In SETUP>SYSTEM>Admin>Storage>Format, click (↔) 'Removed' item under the discrete Format headings of a corresponding HDD to discard 'HDD' item. When the Remove procedure is completed, DVR will auto-reboot.

2.2 Connector Wiring

2.2.1 Video-In/Out Connections

• Connect cameras into 'VIDEO IN'.

2.2.2 Monitor Connections (Video Out, VGA, SPOT)

 Use with CCTV monitor and computer monitor. Please connect the CCTV monitor to 'VIDEO OUT', the computer monitor to 'VGA', respectively. If necessary, you may connect another CCTV monitor to 'SPOT'.

2.2.3 Audio Connections

Connect an audio device to 'AUDIO IN' and a speaker system to 'AUDIO OUT'. Please use a speaker system with volume adjustable.

2.2.4 TCP/IP(Ethernet) Connections

- Connect to 'ETHERNET' connector with the LAN cable.
- When connect to Internet, use an ordinary LAN cable (Non-cross cable). However, when connect directly to your PC, please use only 'Crossover cable'.

2.2.5 Alarm Connections

- Connect Alarm Input (Sensor) to 'AI 1~AI 2' connectors and connect Sensor Common to 'G' connector.
- Connect Alarm Output (buzzer, siren, etc.) to 'AO 1' connectors and connect Common to 'G' connector.
- Connect Pan/Tilt receiver (or Pan/Tilt camera) to 'RS-485/422' connector. Please observe proper (+) and (-) polarity.

2.2.6 RS-485/422 Connections

- PTZ Camera connector
- Please use TX+, TX-, RX+ and RX- terminals.

2.2.7 USB Connections

- There are three identical USB ports-one in front and two in rear. You may connect an external hard disk, an external USB or an USB memory stick to the USB ports.
- When users use an external hard disk, please assure the connecting cable is not longer than 1.8m (6 ft).

2.2.8 Factory Reset Switch

- Reset the switch to restore all setup values of menus to factory default settings. User may also use this switch to initialize System Log file.
- The switch is located in a pin hole that between the VGA port and power connector of rear panel.
- Put the clip pin into the switch hole on the monitor (Live) screen and keep pressing until you feel the switch has clicked.

CAUTION

PRESS FACTORY RESET SWITCH ONLY IN LIVE MODE. NEVER PRESS IN SETUP MODE.

2.2.9 Power Supply Connections

Plug the power supply adapter (DC 12V, 3.33A) which include in this product to 'DC12V' connector and plug another side to
power source. Adapter input voltage is a free volt (100 VAC ~ 240 VAC). Please do not use any different power supply
adapter because it may cause the DVR to malfunction.

2.2.10 Connections Guideline

- Video Out Connector: If only the monitor is connected to VIDEO OUT connector, please set the impedance switch on the rear side of the monitor to 75 ohms to prevent abnormally bright or collapsed images. If you want to connect another device (e.g., a recorder) to the back of the monitor, please set the impedance switch on the rear side of the monitor to HIGH Z (High Impedance) and set the last device to 75 ohms.
- Alarm Input Connector: Do not input any type of voltage to the Al 1~Al 2 connectors.

3. Input Device and Screen Icons

3.1 Front Button and LEDs



4 / 8 / 16 Channel DVR

KEYS		Operating mode	Setup mode
▲, ▼, ◄, ►	•	Control Pan/Tilt rotation of up/down/left/right in PTZ mode	Up/Down/Left/Right on screen cursor control
Power LED	Light off: DVR off		
(Red)	\bigcirc	Light on: DVR on	
HDD LED • Light off: Stop recording			
(Green)		Blink : Recording/Playback modes (HDD Access), Archive in operation	
Network LED			
(Yellow)		Blink: Connected to Ethernet	

3.2 Using a Mouse

- Mouse provides an easier access to adjustment. Refer to below for proper use.
- Left mouse button functions the same as **Enter** (↔) key on the front panel of DVR.
- Right mouse button displays the following "Function keys" on your screen.
- Click Search menu at "Function Keys" the same as **Search** key on the front panel of DVR. Press the button, then the Search menu will appear on your screen.

Name of Key	Function	Name of Key	Function
Display	Change display mode	Event	Display System Log
Sequence	Display each channel sequentially	Search	Enter Search Mode
Spot	Use spot monitor	Setup	Enter Setup
Zoom	Zoom in a camera	Emergency	Activate Emergency record
Freeze	Freeze on live/recorded display	Shutdown	Pre-step before Power off (SETUP>SYSTEM>Shutdown)
PIP	Picture in Picture function	Cancel	Cancel Function key menu
PTZ	En/Disable PTZ control		

3.3 Screen Icons

lcon	Description	lcon	Description
•	Continuous recording mode	P	In Audio recording
83	Event recording mode	P 4	CMS access indication/ No. of accesses
66.30	(Alarm In/Motion)	1 04	(up to 4)
•	In recording	þ	In channel sequencing
	PTZ registration / PTZ mode	6	Lock
	Remote Controller	\$	Setup in HDD Overwrite mode
• ••	Setup in HDD No Overwrite mode	¢	Setup in HDD No Overwrite mode
	(HDD Full)		(recording)

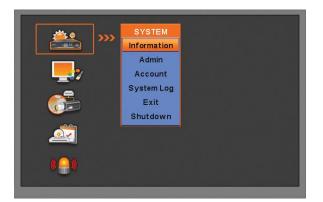
4. Setup

4.1 Login/Logout

- At the default setting of DVR, users have to input the password to enter the set up menu.
- Please press SETUP key to enter the setup menu and the following screen will appear.



- In order to use all functions and privileges, login is required as ID: admin.
- Default Password is "1111".
- At Setup>System>Account, Administrator should set an user rights depending on each users separately in "Login Settings". When users use Setup, Archiving, Search, Shutdown, Network menu, Administrator is possible to limit the general users' approach independently by the login setup (See **4.2.3** Account).
- After login successfully, following screen will appear:



- Recording continues during setup.
- Main menu consists of 5 sub menus.
 (SYSTEM / DISPLAY / DEVICES / RECORD / LINK)
- There is no factory default in the case of passwords.
- To escape from the setup menu, please click(+) on SYSTEM>Exit on the screen. Then, the following dialogue box will appear.

>>> SYSTEM Information Admin	
Are you sure to exit?	

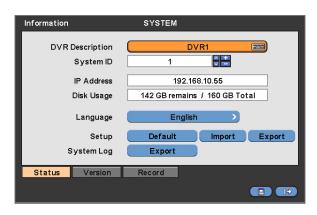
- Please choose 'OK' to log out.
- User may select the Main menu with ◀, ► direction keys or mouse click. Please click (↔) the submenu to choose a submenu under the Main menu.

Press AUDIO/ESC in the setup screen, start operation alike CANCLE (ESC). It will not operate live or playback mode but only in the setup menu.

4.2 SYSTEM

4.2.1 Information

• Please click (↔) SYSTEM>Information and the following screen will appear.



Status

Site Description

- Decide name of DVR.
- Please click (+) keyboard icon on Site Description frame and the following virtual keyboard will appear.

							D١	/R1					
1	1 2 3 4 5 6 7 8 9 0 @ \$ - = ← 웬 A B C D E F G H I J K L M ctrl												
A	в	С	D	E	F	G	H		J	к	L	Μ	ctrl
Ν	0	P	Q	R	S	Т	U	۷	W	Х	Y	Z	1 shift
	1	:	;	"	,	·	1	'	١	~			space
													OK) 🕞

- Please click (↔) desired letters (characters) on the virtual keyboard to input.
 - 1 Use to erase one character every time.
 - ② Use to erase the whole sentence.
- Please choose 'OK' to confirm the input and choose 'Cancel' to cancel.

System ID

- Control DVRs by one remote controller by setting DVR IDs.
- Please click (↔) ▲, ▼ direction keys on the right-hand side of the System ID frame to set the ID of DVR. Take any whole number between 1 and 255.
- While pressing (+) or (-) button, the System ID value increases or decreases by 10 units.

Language

• Please click (↔) Language frame to choose desired language and press (↔) key again.

Setup

• Default: Click (↔) Default frame to restore all setup values of menus to factory default settings. Please note that System Log is not initialized.

(NOTE)

This has a different function from Factory Reset Switch on the back panel of DVR in that System Log is not initialized.

- Import: Copy the Menu setup stored in USB memory stick into DVR. Please plug in the memory stick and then click (↔) Import.
- Export: Store the Menu setup of DVR in USB memory stick. Please plug in the memory stick and then click (↔) Export.
- When user is on Default, Import or Export process, a message box will ask the progress and click the confirmation icon, then a message box will show whether its success or failure.

System Log

- Export: Store the System Log contents in USB memory stick. Please plug in the memory stick and then click (+) Export.
- When user is on Default, Import or Export process, a message box will ask the progress and click the confirmation icon, then a message box will show its success or failure.

Version

• When user complete Status data input, please click (↔) Version and the following screen will appear.

Information	SYSTEM
Current Version	1.05.02 (PTZ 1.01 LANG 1.01)
Last Updated	02/08/2007 PM 07:39:04
Version Upgrade	Start
Package	1.05.3 Load
	50%
Status Version	Record
Status Version	Record

Version Upgrade

- User may upgrade DVR software.
- Please follow the Upgrade procedure below.
- ① Plug USB memory stick having upgrade file into DVR.
- 2 Click (+) Load frame. Then, software version stored in the USB will appear on the left-hand side.
- ③ Click (←) Start frame to start the upgrade.
- ④ When the upgrade is completed, a dialogue box pops up. Please choose 'OK' and DVR will auto-reboot.

CAUTION

DO NOT UPGRADE UNTIL INSTALL A HARD DISK DRIVE. MAKE SURE TO UPGRADE WHEN HDD IS IN PROPER OPERATION.

CAUTION

PLUGGING OUT USB DEVICE OR FORCED POWER-OFF MAY CAUSE PERMANENT DAMAGE.

Record

• When user completes Version input, please click (↔) Record. Then, the following screen will appear.

Information	SYSTEM	
Start Date	2007/10/17 13:43:59	
End Date	2007/10/17 16:04:17	
	Overwrite Setting	
	Clear All Data	
Status Version	Record	
Status Version	Necolu	

• The screen shows start time and end time of recorded data.

Overwrite Setting

• Click(-) Overwrite Setting button and the following screen will appear.

Information Overwrite Se		TEM nation		
Disl	Overwrite			
🔽 Disk	full notify			
	Used	90 %	×	
	🗸 Alarm-Out	1		
	 Beep 			
	Blink Message			

- User may set for beeping or notifying messages that notify the used percentage of disk.
- Check Disk Overwrite and user may activate the overwrite function.

This function makes restart the recording from the beginning when the HDD is full. The previous recorded data will be erased from the first one. Following icon will display in bottom of live mode

- ① Uncheck (□) Disk Overwrite, recording will stop automatically when the HDD is full.
- 2 At no Overwrite mode, 1 icon will appear when HDD capacity is full that indicates the recording has stopped and, 1 icon will appear while the recording is going on.
- ③ If user changes this setting, the warning message will appear. Then click (↔) "confirmation" button and user may change the setting.
- If user checks (\square) Disk full notify item, the warning message will appear as the used amount of disk.
 - 1 Used

User may set the certain value of HDD usage for notification. It will notify at that point. The values are from $50 \sim 100\%$.

2 Alarm-Out

The Alarm-out will happen at the used amount of HDD which is specified at Used.

3 Beep

Check (1), the warning sound will happen at the used amount of HDD which is specified at Used.

④ Blink Message

Check (☑), the warning message "Disk Used(xx%)!" will appear on the OSD.

(NOTE)

Notify setting does not affect saving the recorded data. It only gives notification and keep recording until hard disk is full.

(NOTE)

For more specific setting about Alarm-out, use Setup>DEVICES>Alarm Out.

Clear All Data

- Use to delete or purge all normal recorded data from database. Please follow the procedure below.
 - 1 Click (+) Clear All Data frame.
 - 2 When a dialogue box asking "Remove All Data?" shows, choose 'OK'.
 - ③ Then, Progress window will appear and the process starts.
 - ④ When all data are deleted, a dialogue box asking "Are you sure to remove log?" will pop up.
 - 5 Choose 'OK' to delete all the recorded data as well as System Log.

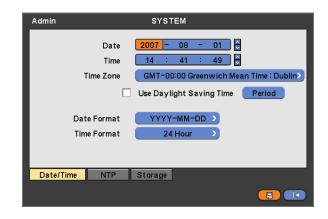
(NOTE)

This might take a while to completely delete all data. In case of 80GB HDD for example, it takes about 90 seconds.

When user finished all the necessary inputs to SYSTEM menu, please click (↔) 'OK' on the bottom to go back to SETUP screen.

4.2.2 Admin

• Please click (+) SYSTEM>Admin and the following screen will appear.



Date/Time

Date

- This menu will allow user to adjust the settings.
- Please follow the procedure below for time adjustment.
 - 1) Click (+) items (Y, M, D) to change. A designated item will be highlighted in a box (Y: Year, M: Month and D: Date).
 - ② Adjust the number by clicking (←) \blacktriangle , \blacktriangledown buttons on the right-hand side.
 - ③ Repeat the same procedure to change Y, M and D.

Time

• This menu will allow user to adjust the current time. The adjustment procedure is same as of Date.

CAUTION

IF ADJUSTED DATE/TIME IS PRIOR TO RECORDED DATA, DATA AFTER NEW DATE/TIME MAY BE ERASED.

CAUTION

ANY CHANGE IN DATE/TIME IS IMMEDIATELY APPLIED ON VIEWING SCREEN (LIVE), BUT THE DATE/TIME WHEN THE RECORDING WAS DONE ARE NOT CHANGED. MAKE SURE TO REBOOT DVR AFTER CHANGING THE DATE/TIME. DO NOT FORGET TO EXECUTE SHUTDOWN (SYSTEM>Shutdown) BEFORE REBOOT.

Time Zone

- Please click (+) Time Zone frame to see the list of nations and choose one.
- Click (←) a check box next to Use Daylight Saving Time. When user dwells in a region of DST area, please check it (i.e. ☑).
- If DST is observed, please click (↔) Period and the following screen will appear.

Admin	SYSTEM	
	Date 2007 - 08 - 01 - Time 14 : 41 : 49 -	: Dublin>
	Day light Saving Time Month Week Weekday Begin 3 2 nd SUN End 11 1 SUN	od
Date/Tir	ne NTP Storage	

- Adjust the dates of beginning (Begin) and end (End) of DST by 'Month/Week/Weekday'.
- Click (↔) the numbers in 'Month/Week/Weekday' for adjustment.
- Choose 'OK' to confirm the setting.

Date Format

• Set date indication format. Please click (↔) Date Format frame to select a format from the list.

Time Format

• Set time indication format. Please click (+) Time Format frame to select a format from the list.

NTP

• When user complete Date/Time input, please click (-) NTP and the following screen will appear.

Admin	SYSTEM	
Run as Serve	r	
Use NTP		
NTP Server	65.23.154.62	
Interval	12 Hour	
System Clock	2007/08/01 14:41:49	Sync
Server Clock	Not connected	Connect
Date/Time NTP	Storage	

- This menu is for accurate setting of time of day clock in DVR.
- User may check ☑ only one of Run as Server and Use NTP.
 - Run as Server: NTP cannot be used in a non-networked environment (Intranet environment). In this case, DVR with Run as Server functions as Time Server.
 - Use NTP: Connect to Internet to synchronize DVR clock with Network Time Server's clock.

NTP Server

• Click (+) keyboard icon in NTP Server frame and the virtual keyboard will appear. Input IP address of NTP server.

(NOTE)

Currently used NTP is administered by pool.ntp.org and its IP address is 65.23.154.62. However, users are allowed to use IP address of any NTP site.

Interval

• Set clock-update-interval from NTP Server. Normally, user can adjust 1 hour up to 24 hours.

System Clock

• Display DVR clock.

Server Clock

- Display NTP Server's clock if Internet is connected to Server Clock. If not displaying, please click (+) Connect button.
- When Server Clock is displayed, please click (+) Sync button to synchronize NTP Server's clock with DVR clock.
- Choose 'OK' to confirm the clock synchronization.

Storage

- When user completes NTP input, please click (+) save and the following screen will appear.
- Set S.M.A.R.T. (Self-Monitoring Analysis and Reporting Technology) function for HDD format and auto-display of HDD information.

Admin	SY	STEM			
NO	HDD Info	Capacity	S.M.A.R.T	Format	
	[P:M] HDT722516DL	160 GB	Good		
2					
	S.M.A	R.T Setup			
Dete/Ti					
Date/Tir	me NTP Storag	e			
					5

- Four rows will show as follows:
 - 1: SATA 1 Port

Format

- User must format when:
 - install new HDD
 - add another HDD
 - replace HDD
 - move HDD (change installation port)
 - remove HDD
- Click (+) Add/Remove frame in Format column and choose 'OK' on the dialogue box to start formatting.
- Following format, DVR will auto-reboot. If there are more than 2 HDDs, please format each of HDDs. DVR will auto-reboot when all the HDDs are formatted.
- If the frame changes to '---' after reboot, it means formatting has been properly done.

CAUTION

EXECUTE REMOVE PROCEDURE EVEN WHEN USER REMOVE PREVIOUSLY INSTALLED HDD. THE REMOVE PROCEDURE IS THE SAME AS THE FORMAT PROCEDURE DESCRIBED ABOVE.

S.M.A.R.T

• Click the frame on S.M.A.R.T column and temperature and HDD damage will show.

S.M.A.R.T Setup

• Please click (↔) S.M.A.R.T Setup and the following screen will appear.

Adr		SYSTEM	
	S.M.A.R.T Setup	Admin	
	✓ Use On	🗌 Beep 📄 Blink Message	
	Inspection Time	03:00 >	
	Check By	Week >	
	Last Check Time	2007/08/27 15:00:39	
	Threshold		
	Temperature	70 °C	
	HDD Damage	1 %	
			\geq

- Check the square box ☑ next to Use On. Through S.M.A.R.T function, make alarm message, indicating HDD damage, will show.
- Check ☑ Beep, it will give the alarm sound, indicating HDD damage, as the SMART setup.
- Check ☑ Blink Message, the alarm message will blink on the OSD, as the SMART setup.
- If "Use on" box is unchecked, Beep, Blink Message will be unchecked automatically. Only when "Use on" is checked⊠, user can set Beep, Blink Message function.
- Click (↔) Inspection Time frame to set inspection time.
- Click Check by frame to select inspection interval.
- Last Check Time: show the time of the last inspection.

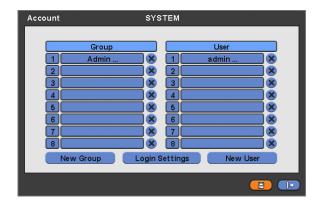
- Click (↔) ▲, ▼ direction buttons on the right-hand side of Temperature frame to adjust to maximum temperature for the HDD used in DVR. In general, it is 55 °C.
- Click (←) ▲, ▼ direction buttons on the right-hand side of HDD Damage frame to set the permissible level of HDD damage (%). HDD is a very crucial element for DVR recording, so set the permissible level within 1% to 2% to assure maximum safety.

While pressing (+) or (-) button on the rightmost side of Temperature or HDD Damage item, a target value increases or decreases by 10 units.

• Choose 'OK' to confirm the setting.

4.2.3 Account

• Please click (↔) SYSTEM>Account and the following screen will appear.



New Group

• Please click (+) New Group and the following screen will appear.

Account	unt	SYSTEM SYSTEM		
	Group Name	gue	et 📰	- 11
		gut		,
	Setup		Archiving	
	Search		Shutdown	
	Networ	k		

- Click (←) keyboard icon on the right-hand side of Group Name frame. Then, the virtual keyboard will show. Please click (←) desired characters (up to 8 characteristics) on the virtual keyboard.
- Do provisioning for Group Name by selectively checking ☑ some of the following items (Setup, Search, Network, Archiving and Shut Down).
- Choose 'OK' to confirm the setting.

Login Settings

- Please click (+) Login Settings and the following screen will appear.
- Selectively enable password protection for important operations (Setup, Search, Network, Archiving and Shut Down). Please check ☑ the operations that wish to enable password protection.

CAUTION

USER WILL NOT BE ASKED TO ENTER YOUR PASSWORD FOR OPERATION(S) WHERE PASSWORD PROTECTION IS NOT ENABLED.

• Choose 'OK' to confirm the setting.

Account Accour	SYSTEM nt SYSTEM	1
	Login required for followings	

New User

- Please click (↔) New User and the following screen will appear.
- Click (↔) the keyboard icon on the right-hand side of User Name frame and the virtual keyboard will appear. Click desired characteristics (up to 8 characteristics) on the virtual keyboard.
- Input Password and Confirm.

Account		SVSTE	M	
	User Name Password		peter	
	Confirm Select Group		**** Admin	
IL				
				Ð

• Choose 'OK' to confirm the setting. Then, lists of Group and User will show as follows.

Account		SYS	тем		
		_	_		
	Group			User	
	Admin		1	admin	
2	Guest		2	peter	
3			3		
4			4		
5			5		
6			6		X
7			7		
8			8		
Ne	w Group	ogin S	Settin	gs New User	

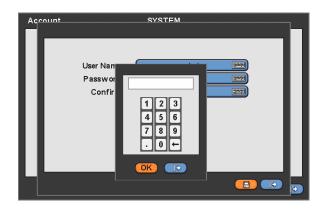
- Click (↔) ⊠ to delete the set Group or User.
- User may create up to 8 Groups and 8 Users.
- Choose 'OK' to confirm the setting.

Password Resetting

• Click ID on User column. The following screen will appear.



- This is a screen for password resetting
- Input password by clicking the keyboard icon on the right-hand side of the frame.



• Use 🔄 key if wish to erase password on keyboard.

4.2.4 System Log

• Please click (+) SYSTEM>System Log and the following screen will appear.

System Log	SYSTEM
Date/Time	
	Log
2007/08/01 14:23:50	Network Disconnected
2007/08/01 12:33:46	Network Disconnected
2007/08/01 12:31:48	Network Connected
2007/08/01 12:31:39	Network Connected
2007/08/01 12:19:09	Network Disconnected
2007/08/01 11:35:26	Network Disconnected
2007/08/01 11:31:03	Network Connected
2007/08/01 10:56:43	Network Disconnected
🔿 💙 1/8(61)	
,	

- System Log System Log displays diverse events.
 - Setup (Menu) Enter/Exit
 - Playback Mode Enter/Exit
 - Network Access Enter/Exit
 - Archive Success/Fail
 - System Start/shut down
 - S.M.A.R.T. Check
 - NTP Sync/ Server Success/Fail
 - Send E-mail Success/Fail
 - HDD Format Success/Fail
 - Data clear Success/Fail
 - USB Upgrade Success/Fail
 - DVR Setup Change by Remote
 - Before/After Time Adjust
- System Log removal procedure is as follows:
 - Execute Clear All Data in SYSTEM>Information>Record and choose 'OK' on the popup dialogue box. Please note that all normal recorded video data are deleted from database.
 - Press Factory Reset Switch on the back panel. Please note that the entire menu setup is also defaulted.

4.2.5 Exit

• Please click (↔) SYSTEM>Exit and choose 'OK' on the popup dialogue box to exit from the setting.

CAUTION

ANY CHANGES MADE IN SETUP ARE APPLIED AFTER EXIT.

4.2.6 Shutdown

 Shutdown is a function to help user safely turn the DVR off. Please use the proper shut down procedure to avoid damaging to our DVR system. Do not remove the power during shut down.

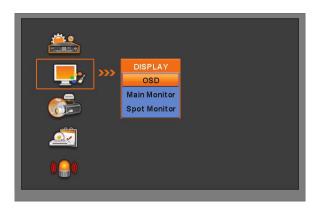
CAUTION

DO NOT TURN DVR OFF WITHOUT USING THE PROPER SHUT DOWN PROCEDURE. OTHERWISE, IT MAY CAUSE DAMAGE TO DVR. ALWAYS REMOVE THE POWER AFTER SHUT DOWN.

- Click (+) SYSTEM>Shutdown and then choose 'OK' on the dialogue box to confirm.
- When user select Shutdown menu, the OSD menu on the screen disappears.
- Reboot the DVR after Shutdown. Turn off the DVR and wait for 5 seconds before restart.

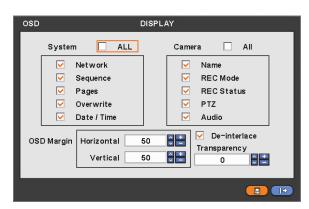
4.3 DISPLAY

• Please click (+) DISPLAY and the following screen will appear.



4.3.1 OSD

• Please click (+) DISPLAY>OSD and the following screen will appear.



- The OSD menu will allow user to configure full features (i.e., on/off every letter and icon) displayed on the screen.
- Letters and icons are divided under System and Camera categories. If click (↔) 'All', all items are on/off at once.

OSD Margin

- The OSD Margin menu will allow user to adjust the position of OSD (letters) on the monitor. Use it when some of letters are dropped out and invisible on the monitor.
- Adjust Horizontal to change margin between both ends of the monitor on horizontal side and OSD. Margin range is between **0** and **50**, with a larger number representing greater margin.
- Adjust Vertical to change margin between both ends of the monitor on vert 130
- Vertical side and OSD Margin range is between **0** and **50**, with a larger number representing greater margin.
- While pressing (+) or (-) button, a target value increases or decreases by 10 units.

De-Interlace

• This function changes playback display into Progressive Scan or Interlace Scan. Check (☑) De-Interlace, then frame will display as the Progressive Scan and shows the better picture quality.

Transparency

- The Transparency menu will allow user to alpha-blending of OSD menu on the monitor. Transparency is the quality that an object or substance has when user can see through it.
- Transparency range is between 0 and 100, with a larger number representing can see through it. (default 0)
- While pressing (+) or (-) button, a target value increases or decreases by 10 units.

4.3.2 Main Monitor

• Please click (+) DISPLAY>Main Monitor and the following screen will appear.

Main Monitor	D	ISPLAY	
Camera	Dwell		
Cam1	5 Sec 🔁	🔽 Cam9	5 Sec 🔁
🔽 Cam2	5 Sec 🔁	🔽 Cam10	5 Sec 🔁
🔽 Cam3	5 Sec 🔁	🔽 Cam11	5 Sec 🔁
🗹 Cam4	5 Sec 🔁	🔽 Cam12	5 Sec 🔁
🗹 Cam5	5 Sec 🔁	🔽 Cam13	5 Sec 🔁
🗹 Cam6	5 Sec 🔁	🔽 Cam14	5 Sec 🔁
🔽 Cam7	5 Sec 🔁	🗹 Cam15	5 Sec 🔁
🔽 Cam8	5 Sec 🔁	🔽 Cam16	5 Sec 🔁
Eull Com	Outed Sea	X0.Som	
Full Seq	Quad Seq	X9 Seq	

• The Main Monitor menu will allow user to adjust channel sequencing interval of Main monitor.

Full Seq

- Adjust interval for 'Full screen sequencing'.
- Check ☑ check box next to the camera that wish to include in sequencing. Any camera with unchecked check box will be excluded from channel sequencing.
- Adjust the rotation interval of camera by clicking Dwell column. The rotation interval changes to 3>5>10>15>30>60 seconds by each press.

Quad Seq

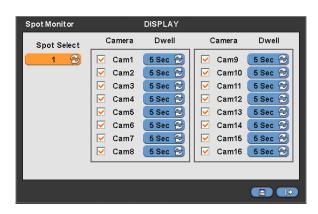
- Use only with 8 / 16 channel DVRs.
- Adjust interval for 'X4 Split Screen sequencing'.
- Check ☑ check box next to the camera that wish to include in sequencing. Any camera with unchecked check box will be excluded from channel sequencing.
- Adjust the rotation interval of camera by clicking Dwell column. The rotation interval changes to 3>5>10>15>30>60 seconds by each press.
- '4 Split Screen sequencing' is disabled in the following modes.
 - 8 channel DVR: 3x3 Mode
 - 16 channel DVR: 4x4 Mode

X9 Seq

- Use only with 16 channel DVR.
- Adjust interval for 'X9 Split Screen sequencing'.
- Check ☑ check box next to the camera that wish to include in sequencing. Any camera with unchecked check box will be excluded from channel sequencing.
- Adjust the rotation interval of camera by clicking Dwell column. The rotation interval changes to 3>5>10>15>30>60 seconds by each press.
- '9 Split Screen sequencing' is disabled in 4X4 Mode.

4.3.3 Spot Monitor

• Please click (+) DISPLAY>Spot Monitor and the following screen will appear.



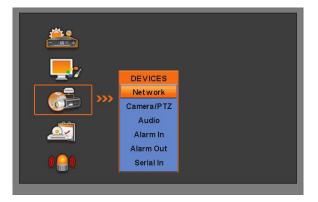
- This menu will allow adjust interval of channel sequencing of Spot monitor.
- Click (+) Spot Select to choose Spot monitor to be set up.
- Check (check box next to the camera that wish to include in sequencing. Any camera with unchecked check box will be excluded from channel sequencing.
- Adjust the rotation interval of camera by clicking Dwell column. The rotation interval changes to 3>5>10>15>30>60 seconds by each press.

4.3.4 Spot Monitor Control on Display Mode

- Every click of the "SPOT" menu item on mouse right click menu will indicate "SP", "SP1" on the right bottom of main monitor.
 - SP mode: Sequential display is activated as configured on spot monitor Setup menu.
 - SP1 mode: Displayed channel on Spot monitor 1 can be changed by pressing channel button. Sequence stops at "SP1" mode

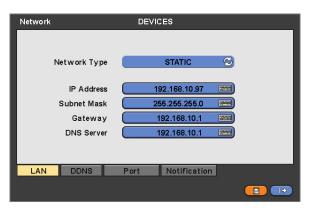
4.4 DEVICES

• Please click (↔) DEVICES and the following screen will appear.



4.4.1 Network

• Please click (+) DEVICES>Network and the following screen will show.



LAN

Network Type

- Please click (+) Network Type. Every time click (+), it changes to Static (fixed IP) and DHCP (floating IP).
- In Static, user must manually set the static IP address for use.
 - Set IP Address, Subnet Mask and Gateway. Please ask your network administrator for more details.
 - To input address, please click (+) and execute the keyboard icon on the right-hand side of each frame.



• In DHCP, IP Address, Subnet Mask, Gateway and DNS Server will have input automatically.

DNS Server

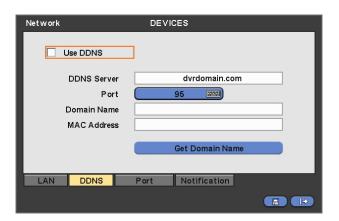
- When user set Network Type to DHCP, DNS server will be inputted automatically.
- When user set Network Type to Static, please click (↔) the keyboard icon on the right-hand side of DNS Server frame and manually input the address.

CAUTION

NOTE THAT DNS SERVER ADDRESS IS IP ADDRESS OF YOUR COMMUNICATIONS COMPANY NAME SERVER PROVIDING INTERNET SERVICE. IT IS NOT THE IP ADDRESS OF DDNS SERVICE SITE.

DDNS

• Please click (↔) DDNS and the following screen will appear.



- 'Floating IP system', although being predominantly used over Internet, is very inconvenient for users because its address varies every time when user access. The best alternative is DDNS (Dynamic Domain Naming System) which uses name (domain name) instead of IP address (numbers). DDNS automatically recognizes ever changing, floating IP addresses, so it will allow easy Internet access.
- Check ☑ a checkbox of Use DDNS to use DDNS function.
- As for DDNS Server, dvrdomain.com name will be showing as default.
- As for Port, 95 is shown by default. If '95' is disenable, please consult with a product distributor.

Network		DEVICES		
	Jse DDNS DDNS Sei F Domain Na MAC Addi	90 1 2 3 4 5 6 7 8 9 . 0 ← OK	Ins.com	
LAN	DDNS	Port Not	ification	

- When user press Get Domain Name button, Domain Name and MAC Address value will automatically display after 10 seconds.
- Choose 'OK' to confirm the setting.

Port

• Please click (+) Port and the following screen will appear.

Network		DE	VICES		
	Transfer S	peed	4 Mbps	×	
Fr	ames 🦲	15 🔁	Quality 📃	High 3 🔁	
Por	t Number Set	ир			
	Administ	rator 🧲	5920		
	Video / A	Audio 🧲	5921		
		Web 🦲	80		
LAN	DDNS	Port	Notification		
LAN	DBNS	, ort	Hotineation	•	

- Transfer Speed is used for setting a mean transfer speed per unit of time between a client and a DVR.
- Set a proper Transfer Speed for a current configuration state of the network for the client to be able to playback DVR screen in optimum state.
- There is a total of 14 different transfer speeds user may choose. (bps: bit per second) 56 kbps, 128 kbps, 256 kbps, 512 kbps,
- 1 Mbps, 2 Mbps, 4 Mbps, 8 Mbps, 10 Mbps, 20 Mbps, 40 Mbps, 80 Mbps, 100 Mbps, Unlimited
- Network video transmission speed and quality can be configured by pressing "Frames" and "Quality" buttons as follows.
- Frames : 1, 2, 3, 4, 5, 7, 15 frames for NTSC(1, 2, 3, 4, 5, 6, 12.5 frames for PAL)
- Quality : Std. 1, Std. 2, Std. 3, Std. 4 (standard), High 1, High 2, High 3, Super 1, Super 2, Super 3
- The Port Number Setup menu will allow user to set Administrator and Port Number for Video/Audio and Web Port.
- For Port Number Setup, please get an approval of the network administrator in connection with CMS program. Port Number:
 - Administrator: 5000~9999
 - Video / Audio: 5000~9999
 - Web: 80~4999

CAUTION

•

IT IS NOT ABLE TO CHANGE Port Number DURING CMS ACCESS TO DVR.

CAUTION

CHANGES BEING MADE ARE APPLIED AFTER COMPLETE SETUP TO EXIT.

CAUTION

ONCE PORT NUMBERS ARE CHANGED, IT MUST BE CHANGED THE PORT NUMBERS OF CMS (Central Monitoring Station) PROGRAM AS WELL.

Choose 'OK' to confirm the setting.

Notification

• Please click (↔) Notification and the following screen will appear.

Network		DEVI	CES	
	Add E-M	lail 📰		
No 1 2 3	E-Mail A security@			
5	1/1		Attachment	Duration 5 Sec 🔁
LAN	DDNS	Port	Notification	

- The Notification menu will allow user to set transmission of Event occurred in DVR via E-Mail.
- Click (←) the keyboard icon on the right-hand side of Add E-Mail item then the virtual keyboard will appear. Please register E-Mail address. E-Mail address should contain @.
- When an event occurs, user can send an email to a designated mail address by clicking Attach button and selecting Data to be transmitted. User may select one of JPEG, VIDEO CLIP, None modes. In case of transmitting VIDEO CLIP Data, set the duration of time for recoded images in Duration item (e.g., 1 sec, 3 sec, 5 sec).

CAUTION

According to the various local conditions, some e-mail servers may not work correctly with this function.

4.4.2 Camera/PTZ

• Please click (+) DEVICES>Camera/PTZ and the following screen will appear.

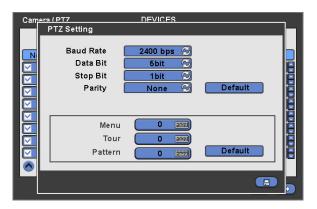
Camera	a / PTZ	DE	EVICES				
No	Title	Cvt.	PTZ		Set.		
✓ 1	CAM1		PELCO-D	Ð			× +
2	CAM2		PELCO-D	Ð		2	÷ +
3	CAM3		PELCO-D	B		3	÷ +
	CAM4		PELCO-D	Ð		4) <u>+</u>
5	CAM5		PELCO-D	B		5	÷ +
	CAM6		PELCO-D	Ð		6) <u>+</u>
	CAM7		PELCO-D	B			÷ +
8	CAM8		PELCO-D	Ð		8) <u>+</u>
✓	1/2						
							+

- Give titles to cameras and choose PTZ protocols.
- Click (↔) the keyboard icon on the right-hand side of each frame on Title column and the virtual keyboard will appear. Then, register titles of cameras.
- If a check box is checked ☑on No column, a video of the corresponding camera is recorded and displayed on the monitor. However, if user does not check the checkbox, both recording and monitor display stop. Then, DVR picture, instead of a recorded video, will be displayed on the monitor.

CAUTION

WHEN YOU EXCLUDE A CORRESPONDING CAMERA VIDEO FROM RECORDING AND MONITOR DISPLAY (CHECK A CHECK BOX □), MAKE SURE CHANNELS OF LARGE NUMBERS ARE EXCLUDED FIRST.

- If a check box is checked ☑ on Covert column, a video is recorded but is not displayed on the monitor.
- Click (+) each frame on PTZ column to select PTZ protocols connected to a corresponding camera.
- Click (↔) each frame on Set to set PTZ Settings connected to a corresponding camera.



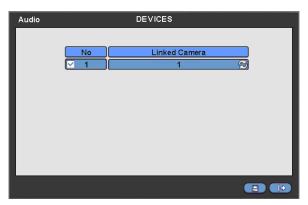
If user click (**Default**), proper number of selected PTZ will appear automatically. Please choose 'OK' to confirm the setting.
Menu, Tour and Pattern help user to use OSD function of PTZ camera.

Mend, Your and Pattern help user to use OSD function of PTZ camera.
 PTZ camera itself supports OSD menu, use the setup value to more easily enter and use the OSD menu even in DVR.
 If OSD enter command is 95 + PSET for example, designate 95 for Menu item,
 if shortcut key to use Tour function is 71 ~79 + PSET, designate 70 for Tour item and
 if shortcut key to use Pattern function is 81 ~ 89 + PSET, designate 80 for Pattern item.
 The setting information herein is used for PAN/TILT control in 5.1.5 (to be described).
 If click Default, basic setup values are given (i.e., Menu: 95, Tour: 70, Pattern: 80).
 For further details on setting, please refer to the PTZ camera manual.

- Click (↔) ▲, ▼ direction buttons on the right-hand side of the ID column to set ID number (i.e., 0 ~ 9999) of each PTZ.
- While pressing (+) or (-) button, ID increases or decreases by 10 units.
- Choose 'OK' to confirm the setting.

4.4.3 Audio

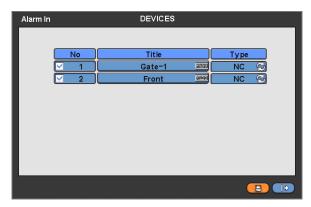
• Please click (↔) DEVICES>Audio and the following screen will appear.



- The Audio menu will allow user to choose whether to record Audio.
- When a check box is marked ☑ on No column, corresponding audio and video are recorded. However, if the check box is not marked, recording stops.
- Choose 'OK' to confirm the setting.

4.4.4 Alarm In

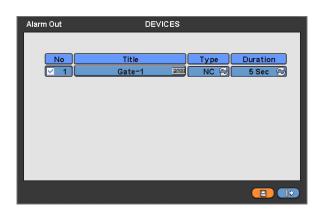
• Please click (+) DEVICES>Alarm In and the following screen will appear.



- The Alarm In menu will allow user to give title and to select the type of Alarm input.
- Click (←) the keyboard icon on the right-hand side of each frame on Title column and the virtual keyboard will appear. Then, please register the title of Alarm input.
- When a check box is marked ☑ on No column, a corresponding Alarm starts operating. However, if user does not check the check box, the operation stops.
- Click (+) each frame on Type column to select type of a corresponding Alarm input.
 - NO: contact is normally open (Normally open)
 - NC: contact is normally closed (Normally closed)
- Choose 'OK' to confirm setting.

4.4.5 Alarm Out

- Please click (↔) DEVICES>Alarm Out and the following screen will appear.
- The Alarm Out menu will allow user to give title and to select the type and duration of Alarm output.



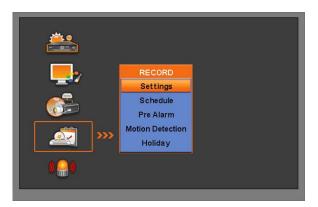
- Click (+) the keyboard icon on the right-hand side of each frame on Title column and the virtual keyboard will appear. Then, please register the title of Alarm output.
- When a check box is marked ☑ on No column, a corresponding Alarm output starts operating. However, if user does not check the check box, the operation stops.
- Click (+) each frame on Type column to select type of a corresponding Alarm output.
 - NO: contact is normally open (Normally open)
 - NC: contact is normally closed (Normally closed)
- Click (+) each frame on Duration column to select duration (i.e., 1 second ~3 hours) of a corresponding Alarm output.
- Choose 'OK' to confirm the setting.

4.4.6 Serial In



4.5 RECORD

• Please click (↔) RECORD and the following screen will appear.



4.5.1 Settings

• Please click (↔) RECORD>Settings and the following screen will appear.

Setti	ngs		RECORD					
No		Title	Resolutio	n	Fra	mes	Quali	ty
1		CAM1	720x240	P	15	Ð	High	e
2		CAM2	360x240	P	7	Ð	Std.	e
3		CAM3	720x240	B	15	Ð	Super	e
4		CAM4	720x240	P	30	Ð	High	e
5		CAM5	360x240	P	7	Ð	Super	e
6		CAM6	720x240	P	1	Ð	Std.	e
7		CAM7	720x240	P	15	Ð	Std.	e
8		CAM8	360x240	P	30	Ð	Super	e
0	/ 1/2							
Con	tinuous	Event	Emergency					

- There are three kinds of recording mode.
 - Continuous: record continuously.
 - Event: record only when Sensor or Motion calls.
 - Emergency: record when press EMERGENCY key.

Continuous

- The Continuous menu will allow user to set recording mode.
- Each frame on Title column shows camera title registered in DEVICES>Camera/PTZ. User cannot change camera titles here.
- Click (←) each frame on Resolution column to select recording resolution of a corresponding camera. User may select one of **720x480**, **720x240** and **360x240**.
- Click (←) each frame on Frames column to select recording rate of a corresponding camera. Recording rate varies by camera. Below lists the maximum recording rate of each camera.

NTSC(PAL)	360x240	720x240	720x480	
4 Channel DVR	120(100)	120(100)	60(50)	
8 Channel DVR	240(200)	120(100)	60(50)	
16 Channel DVR	480(400)	240(200)	120(100)	

- Click (←) each frame on Quality column to select recording quality of a corresponding camera. User may select one of **Super, High and Std**.
- Choose 'OK' to confirm the setting.

Event

• Please click (↔) Event and the following screen will appear.

Setti	ngs			RECC	RD						
No	T	ïtle	F	Resolutio	on)	Fra	mes	Quali	ty	Durati	on
1	C.	AM1	72	0x240	Ð	1	Ð	Super	Ð	10 Sec.	Ð
2	C,	AM2	36	0x240	Ð	7	Ð	Std.	Ð	30 Sec	B
3	C,	АМЗ	72	0x240	Ð	15	Ð	High	Ð	1 Min.	Ð
4	C.	AM4	72	0x240	Ð	30	Ð	Super	Ð	5 Min.	Ð
5	C,	AM5	36	0x240	Ð	1	Ð	Std.	Ð	10 Min.	P
6	C.	AM6	72	0x240	Ð	1	Ð	High	Ð	30 Min.	P
7	C,	AM7	72	0x240	Ð	1	Ð	Super	Ð	1 Hour	P
8	C.	AM8	36	0x240	Ð	1	Ð	Std.	Ð	1 Sec.	P
	9 1/2										
Con	tinuous	Event		Emerg	genc	у					
									(⇔

- The Event menu will allow user to set Event videos.
- Each frame on Title column shows camera title registered in DEVICES>Camera/PTZ. User cannot change camera titles here.
- Click (←) each frame on Resolution column to select recording resolution of a corresponding camera. User may select one of **720x480**, **720x240** and **360x240**.

• Click (↔) each frame on Frames column to select recording rate of a corresponding camera. Recording rate varies by camera. Below lists the maximum recording rate of each camera.

NTSC(PAL)	360x240	720x240	720x480	
4 Channel DVR	120(100)	120(100)	60(50)	
8 Channel DVR	240(200)	120(100)	60(50)	
16 Channel DVR	480(400)	240(200)	120(100)	

- Click (←) each frame on Quality column to select recording quality of a corresponding camera. User may select one of **Super, High and Std**.
- Click (+) each frame on Duration column to select recording duration (i.e., **1 second ~3 hours**) of a corresponding camera.
- Choose 'OK' to confirm the setting.

Emergency

- Please click (+) Emergency and the following screen will appear Emergency.
- The Emergency menu will allow user to set Emergency videos.
- Each frame on Title column shows camera title registered in DEVICES>Camera/PTZ. User may not change camera titles here.

Setti	ngs		RECC	RD						
No	Title		Resolutio	on	Fra	mes	Quali	ty	Durati	on
1	CAM1	72	0x240	Ð	1	Ð	Super	Ð	10 Sec.	Ð
2	CAM2	36	0x240	Ð	7	P	Std.	Ð	30 Sec.	P
3	CAM3	72	0x240	Ð	15	B	High	Ð	1 Min.	Ð
4	CAM4	72	0x240	Ð	30	Ð	Super	Ð	5 Min.	Ð
5	CAM5	36	0x240	Ð	1	B	Std.	Ð	10 Min.	Ð
6	CAM6	72	0x240	Ð	1	Ð	High	Ð	30 Min.	Ð
7	CAM7	72	0x240	Ð	1	P	Super	Ð	1 Hour	P
8	CAM8	36	0x240	Ð	1	B	Std.	Ð	1 Sec.	Ð
	112									
Con	tinuous Event		Emerg	genc	У					
								(₽

- Click (←) each frame on Resolution column to select recording resolution of a corresponding camera. User may select one of **720x480**, **720x240** and **360x240**.
- Click (←) each frame on Frames column to select recording rate of a corresponding camera. Recording rate varies by camera. Below lists the maximum recording rate of each camera.

NTSC(PAL)	360x240	720x240	720x480		
4 Channel DVR	120(100)	120(100)	60(50)		
8 Channel DVR	240(200)	120(100)	60(50)		
16 Channel DVR	480(400)	240(200)	120(100)		

- Click (↔) each frame on Quality column to select recording quality of a corresponding camera. User may select one of **Super, High and Std**.
- Click (↔) each frame on Duration column to select recording duration (i.e., **1 second ~3 hours**) of a corresponding camera.
- Choose 'OK' to confirm the setting.

4.5.2 Schedule

- Please click (+) RECORD>Schedule.
- Each weekday is composed of 24 'Time blocks'. Each block represent 1 hour.
- Click (↔) Camera frame to select Camera No. 1.
- Please set the recording mode as follows:
 - ① Mark a check box the desired recording mode in the schedule (i.e., Continuous, Alarm, Motion and PreAlarm)). If user wants to stop recording, please clear all check boxes.
 - ② Click block, row, column or all (square box) to register desired recording mode.
 - Click (+) a block and only the block will be registered.
 - Click (+) a row (S~H) and the entire row will be registered.
 - Click (+) a column (00~23) and the entire column will be registered.
 - Click (-) a square box (top-left side between 'S' and '00') and all the rows/columns will be registered.

M c	ch	ed	ule	2								RE	C	0R	D										
S C			Са	me	era				1		B						C	ору	r to	o A	II C	am	iera	as	
M c		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
T C	s																								
W C	М																								
T C	Т																								
F c c c c c c c c c c c c c c c c c c c	W																								
S c c c c c c c c c c c c c c c c c c c	Т																								
H c c c c c c c c c c c c c c c c c c c	F																								
	s																								
🗸 Continuous 🗌 AlarmIn 🗌 Motion 🗌 PreAlarm	н																								
	~	С	ont	in	ιοι	JS] /	۱a	rml	n			•	/loi	tio	n			F	Pre,	Ala	ırm	I

- Repeat the procedure for Camera Nos. 2 to 16. If user wants every camera to have the same mode, please click (↔) Copy to All Camera.
- Below lists symbols of the respective recording modes.

С	Continuous
А	Alarm In
Α+	Alarm In / Continuous
Å*	Alarm In / PreAlarm
м	Motion
M^{+}	Motion / Continuous
. M ^{**}	Motion / PreAlarm
${}^{M}\!$	Motion / Alarm In
$^{\rm M^+_{\rm A}}$	Motion / Alarm In / Continuous
M** A	Motion / Alarm In / PreAlarm
Choo	ose 'OK' to confirm the setting.

(NOTE) Holiday (H) registration is done with a separate menu.

4.5.3 Pre Alarm

- Please (+) RECORD>Pre Alarm and the following will appear.
- Pre Alarm is effectively used when user selected recording mode by Alarm or Motion.
- The Pre Alarm will allow user to check, during playback, the previously recorded video before the record start time.

No	Title	Frames	Quality	Duration
	CAM1	1 9	Super	🔁 10 Sec. 😤
2	CAM2	1 9	Std.	🔁 30 Sec. 😤
3	CAM3	15 🦿	High	🔁 1 Min. 😤
4	CAM4	30 🥱	Super 🛛	🔁 5 Min. 🛛 🧧
5	CAM5	(1	Std.	🔁 10 Min. 😭
6	CAM6	7 9	High 🚽	🔁 30 Min. 😤
7	CAM7	15 🦿	Super	🔁 🛛 Hour 🧲
8	CAM8	30 4	Std.	🗐 1 Sec. 🗧

- Each frame on Title column shows camera title registered in DEVICES>Camera/PTZ. User cannot change camera titles here.
- Click (←) each frame on Resolution column to select recording resolution of a corresponding camera. User may select one of 720x480, 720x240 and 360x240.
- Click (←) each frame on Frames column to select recording rate of a corresponding camera. Recording rate varies by camera. Below lists the maximum recording rate of each camera.

NTSC(PAL)	360x240	720x240	720x480		
4 Channel DVR	120(100)	120(100)	60(50)		
8 Channel DVR	240(200)	120(100)	60(50)		
16 Channel DVR	480(400)	240(200)	120(100)		

- Click (←) each frame on Quality column to select recording quality of a corresponding camera. User may select one of **Super, High and Std**.
- Click (+) each frame on Duration column to select recording duration (i.e., **1 second ~ 3 hours**) of a corresponding camera.
- Choose 'OK' to confirm the setting.

4.5.4 Motion Detection

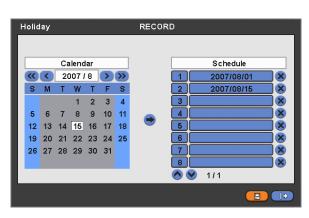
• Please click (↔) RECORD>Motion Detection and the following screen will appear.



- The Motion Detection menu will allow user to set Motion detection alarm.
- Press SETUP key (or right mouse button) and the SETUP menu will appear.
- SETUP menu descriptions.
 - Camera: select camera for setup.
 - Sensitivity: select sensitivity (Low, Normal and High)
 - Reverse Vert: activate the entire column at the cursor's position.
 - Reverse Horz: activate the entire row at the cursor's position.
 - Select All: active all blocks.
 - Deselect All: deactivate all blocks.
 - Copy to All Cameras: The present channel setup applies to all other cameras. Only when click save button, the changed setup can be saved.
 - Save: save the new settings and go back to previous menu (page).
 - Exit: ignore the new settings and go back to previous menu (page).
 - Cancel: cancel Motion Setup menu.
- Choose 'OK' to confirm the setting.

4.5.5 Holiday

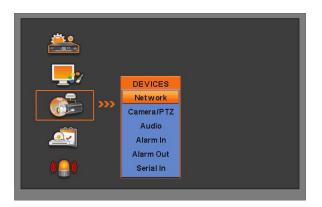
• Please click (+) RECORD>Holiday and the following screen will appear.



- The Holiday menu will allow user to register holidays. Please follow the registration procedure below. ① Use arrow buttons in the Month Calendar to select Year and Month of holiday to be registered.
 - ► : search subsequent 'Year'
 - **4**: search previous 'Year'
 - ►: search subsequent 'Month'
 - ◄: search previous 'Month'
 - 2 Click (+) on date user need to register as holiday.
 - ③ Click (↔) ADD button and the date just clicked on will be copied to the Schedule frame for registration.
 - 4 If wish to cancel the registration of a certain holiday, please click \boxtimes button next to the Schedule frame.
- Since holidays may vary every year, we recommend user to update on a regular basis.
- Choose 'OK' to confirm the setting.

4.6 LINK

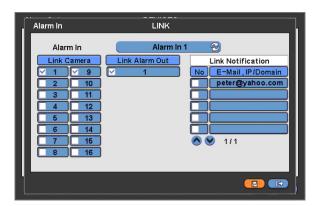
• Please click (↔) LINK and the following screen will appear.



• The LINK menu will allow user to set recording modes of all kinds of alarms (Sensor, Motion Event, Video loss, System Event, etc.), alarm output, e-mail notification and the like.

4.6.1 Alarm In

- Please click (↔) LINK>Alarm In and the following screen will appear.
- Select cameras for recording while the motion sensor is in operation and alarm outputs and set up E-mail addresses for notification.
- Link Notification displays E-mail addresses registered in DEVICES>Network>Notification.
- Please follow the setup procedures below.
 - ① Click (↔) Alarm In frame and select Alarm In 1.
 - ② Select cameras for recording when Alarm In 1 is on. Please check ☑ a check box under Link Camera. More than two cameras can be set.
 - ③ Select alarm outputs to be worked when Alarm In 1 is on. Please check ☑ a check box under Link Alarm Out. More than two alarm outputs can be set.
 - ④ Select E-mail addresses for notification when Alarm In 1 is on. Please check ☑ a check box under Link Notification. More than two E-mail addresses can be set.
 - (5) Repeat the above procedure for Alarm In 2.



• Choose 'OK' to confirm the setting.

4.6.2 Motion Event

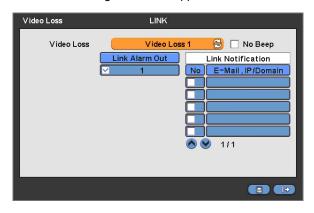
• Please click (↔) LINK>Motion Event and the following screen will appear.

Motion Event	LINK	Kakakatan katan di
Motion Event Link Camera 1 9 2 10 3 11 4 12 5 13 6 14 7 15 8 16	Motion Even	t1 By Duration Link Notification No E-Mail, IP/Domain

- Select cameras for recording while the motion sensor is in operation and alarm outputs and set up E-mail addresses for notification.
- Link Notification displays E-mail addresses registered in DEVICES>Network>Notification.
- Please follow the setup procedures below.
 - 1) Click (+) Motion Event frame and select Motion Event 1.
 - ② Select cameras for recording when Motion Event 1 is on. Please check ☑ a check box under Link Camera. More than two cameras can be set.
 - ③ Select alarm outputs to be worked when Motion Event 1 is on. Please check ☑ a check box under Link Alarm Out. More than two alarm outputs can be set.
 - ④ Select E-mail addresses for notification when Motion Event 1 is on. Please check ☑ a check box under Link Notification. More than two E-mail addresses can be set.
 - (5) Repeat the above procedure for Motion Event 2.
- Click(←)By Duration box to set up the recording duration and prevent recording caused by event. The duration time can be controlled by previous setting mode: RECORD>Settings>Event
- Choose 'OK' to confirm the setting.

4.6.3 Video Loss

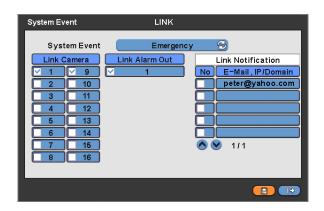
• Please click (↔) LINK>Video Loss and the following screen will appear.



- Select cameras for recording while the motion sensor is in operation and alarm outputs and set up E-mail addresses for notification.
- Link Notification displays E-mail addresses registered in DEVICES>Network>Notification.
- Please follow the setup procedures below.
 - ① Click (↔) Video Loss frame and select Video Loss 1.
 - ② Select cameras for recording when Video Loss 1 is on. Please check ☑ a check box under Link Camera. More than two cameras can be set.
 - ③ Select alarm outputs to be worked when Video Loss 1 is on. Please check ☑ a check box under Link Alarm Out. More than two alarm outputs can be set.
 - ④ Select E-mail addresses for notification when Video Loss 1 is on. Please check ☑ a check box under Link Notification. More than two E-mail addresses can be set.
 - (5) Repeat the above procedure for Video Loss 2.
- Click No Beep $\ensuremath{\boxtimes}$ to deactivate alert sounds from video loss. Apply to all channel.
- Choose 'OK' to confirm the setting.

4.6.4 System Event

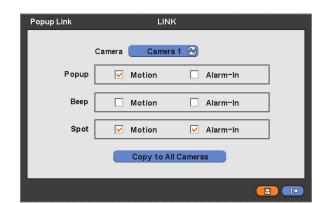
• Please click (+) LINK>System Event and the following screen will appear.



- Select recording cameras and alarm outputs while Emergency recording using **EMERGENCY** key and set E-mail addresses for notification.
- Link Notification displays E-mail addresses registered in DEVICES>Network>Notification.
- Please follow the setup procedures below.
 - ① System Event frame displays Emergency, which user does not have to change.
 - ② Select cameras for recording when emergency occurs. Please check ☑ a check box under Link Camera. More than two cameras can be set.
 - ③ Select alarm outputs to be worked when emergency occurs. Please check ☑ a check box under Link Alarm Out. More than two alarm outputs can be set.
 - ④ Select E-mail addresses for notification when emergency occurs. Please check ☑ a check box under Link Notification. More than two E-mail addresses can be set.
- Choose 'OK' to confirm the setting.

4.6.5 Popup Link

• Please click (↔) LINK>Popup Link and the following screen will appear.



- When Motion or Alarm-In is detected, user can select a popup or beep sound for warning, or have a particular channel of interest to pop-up on Spot Screen.
- Please follow the setup procedures below.
 - Select camera
 - ② **Popup**: Please Check ☑ a check box under making the popup screen for main monitor.
 - ③ Beep: Please Check ☑ a check box under making beep sound.
 - ④ Spot: Please Check I a check box under making the popup screen for spot monitor
- Click Copy to All Cameras button, then the present channel setup will apply to all other cameras.
- Choose 'OK' to confirm the setting.

5. Operation Instructions

5.1 Viewing

5.1.1 First Image

• Power on DVR and the following live video will appear, while viewing and recording at the same time.



• The screen will display date/time and icons below.

lcon	Description
<u> </u>	Continuous recording mode
8	Event recording mode (Alarm In/Motion)
٠	In recording
þ	PTZ registration/PTZ mode
P	In Audio recording
6 4	CMS Access Indication/No. of accesses (up to 4)
þ	In channel sequencing
¢	Setup in HDD Overwrite mode
ģ	Setup in HDD None Overwrite mode(recording)
¢	Setup in HDD None Overwrite mode(HDD Full)

- On the right bottom side of the screen, disk usage will show by %.
- At the normal state, HDD Overwrite mode is on and 5 icon shows.
- When Overwrite mode is off (see **4.2.1** Information>Record>Overwrite Setting), will show. And when the disk becomes full, the icon will be changed into .
- Click Emergency recording button, 🛡 icon will show.
- Click Audio button, ŵ icon will show. And click channel button, then user can change only audio channel.

5.1.2 View Formats

• The available view formats when the Main Monitor is in viewing mode include Full Screen, Split Screen, Channel Sequencing Screen and PIP screen.

- Full Screen: Please press camera select key (1~16) to view the corresponding camera image in full view format.

(NOTE)

Using a mouse: Double click to view the corresponding camera image in full view format and click one more time to back to Split Screen.

- Split Screen: Please press DISPLAY key and the available split screens (or multi-window view formats) will display alternately (i.e., 2x2, 3x3 and 4x4).
- Channel Sequencing: Please press SEQUENCE key to display images in sequencing view format periodically. This automatic sequence function is not limited to the full screen format, but can be used in any view mode. In 8 channel DVR, 4-camera sequencing view mode is possible and in 16 channel DVR, 4 or 9-camera sequencing view modes are possible.

5.1.3 Digital Zoom

- Activate mouse menu with right click at live mode and click ZOOM.
- Use direction keys to view certain parts on the zoomed screen.
- The digital zoom function works only in the full screen. Please do not use the digital zoom function in split screen format, channel sequencing mode or PIP mode.

5.1.4 Freeze Live Image

- Press FREEZE key while viewing live image to pause the image.
- The Freeze function works only in the full screen or split screen formats. Please do not use this function in channel sequencing mode or in PIP mode.

5.1.5 Pan/Tilt Control

• Press PTZ key to adjust PTZ cameras connected to DVR. Pan/Tilt mode is available only in the full screen format.



- In Pan/Tilt mode, the 🐨 icon is displayed on the bottom of the screen.
- Following is the key usage found in Pan/Tilt mode.

Key	Function			
▲, ▼, ◀, ►	Up/Down/Left/Right rotation			
•	Zoom out			
•	Zoom in			
⊳	Focus near			
	Focus far			
Q	Iris Close			
\circ	Iris Open			
X	Save Preset			
¥	Go to the Preset			
Menu	Go to OSD main menu			
Tour	Run Group Tour 1~9			
Patt.	Run Pattern 1~9			

• To use a mouse in Pan/Tilt mode, please move the cursor to the lower portion near the center of the screen. To use front button in Pan/Tilt mode, please push setup button. A key pad control will show as follows:



- To save current camera number, select Preset No and Tbutton click.
- To move to preset, select preset No and ** button click.
- Available 1 ~ 255 Preset numbers can saved it depends on camera specification.
- As explained earlier in **4.4.2.** press Menu button to pop-up PTZ camera OSD setup screen and set up Tour and Pattern items.

Since these functions make use of a memory function of the camera itself, user should set them in Camera OSD. Once user completes the setup, close the Camera OSD menu.

User can conveniently use Tour and Pattern functions simply by clicking Tour and Pattern buttons.

Particulars on how to setup each function on OSD Menu are found in the manual of a corresponding camera.

(NOTE)

Suppose a command for using Tour function is $71 \sim 79 + PSET$ and if you had set Tour to 70, use Preset No: $1 \sim 9 + Tour$ button to benefit the Tour function ($70 + 1 \sim 9$).

5.1.6 System Log

• Press EVENT key and the System Log screen will appear.

System Log	SYSTEM
Date/Time	Log
2007/08/01 14:23:50	Playback Exit
2007/08/01 12:33:46	Playback Enter
2007/08/01 12:31:48	Search Exit
2007/08/01 12:31:39	Searth Enter
2007/08/01 12:19:09	Playback Exit
2007/08/01 11:35:26	Network Disconnected
2007/08/01 11:31:03	Sutup Enter
2007/08/01 10:56:43	Setup Exit
🔿 У 1/8(61)	

• Please refer 'SETUP>SYSTEM>System Log' to learn different events listed on the System Log and see how to delete the System Log.

5.1.7 Emergency Recording

- Click "Emergency" in item menu, then recording starts right away regardless of preset recording mode.
- Emergency recording is not operated while SETUP.
- · Press Emergency key one more time to stop the emergency recording.

5.2 Search

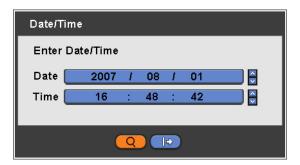
- This involves searching recorded video to playback the wanted video of a specific date and time.
- Press **SEARCH** key on the viewing screen, or Click Search menu at "Function Keys" and the following Search menu will appear.



- There are three ways to search video, i.e., by date/time and by calendar.
 - Date/Time Search: search by inputting date/time.
 - Calendar Search: search by using calendar.
 - Event Search: search by event.

5.2.1 Date/Time Search

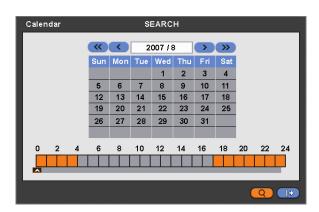
• Please click (+) Date/Time Search in SEARCH menu and the following input box will appear.



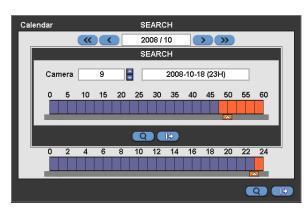
- Follow the procedure below to search video by date/time.
 - ① Click (+) the date and/or time whichever user needs to change and block the item. The designated item will be marked in a square.
- ② Click ▲, ▼ buttons on the right-hand side to adjust the values.
- Choose 'Search' to confirm the setting. Then, the selected video will be played back.
- Playback continues from the designated time until the last recording time.

5.2.2 Calendar Search

• Please click (+) Calendar Search in SEARCH menu and the following input box will appear.



- Dates and Time with recorded data available will be high-lighted.
- Follow the procedure below to search video by calendar.
 ① Select Year and Month by using the arrow buttons in the calendar.
 - **>>**: search subsequent 'Year'
 - **I**: search previous 'Year'
 - ►: search subsequent 'Month'
 - ◀: search previous 'Month'
 - ② Click (←) a date. The date will be displayed in black color.
 - ③ Click (\leftarrow) \blacktriangle symbol below the time indication bar. The date will turn to orange color and \blacktriangle symbol to \blacktriangle .
 - ④ Use \blacktriangleleft and \blacktriangleright keys to move the \blacktriangle symbol to the start time of the video playback.
 - ⑤ Click (↔) ▲ button to show pop-up window on the screen, If there is a recorded data.



- 6 The screen will show selected date/time.
- ⑦ Click ▲ ▼ button for selecting cameras.
- ⑧ Selected camera will show the time bar 0-60 and It will be marked on 2.5minutes basis during selected time zone.
- ⑨ Use ◀ and ▶ keys to move the ▲ symbol to the start time of the video playback.
- Click (←) Search to start playing back the selected video.
- Playback continues from the designated time until the last recording time.

(NOTE)

④ Click (+) search button for showing entire channel search based on different time frames.

5.2.3 Event Search

- Please click (↔) Event Search in SEARCH menu and the following input box will appear.
- This involves searching recorded video to playback the selected video of a specific date and time.
- Press SEARCH key on the viewing screen, or use the mouse wheel (central button) and the following Search menu will
 appear.



- 1 Designate Event Search start time.
- 2 Designate Event Search end time.
- ③ Select camera (video) to search data.
- (4) Check a check box (Motion / Alarm In / Emergency / Serial In) Check box.
- ⑤ Click on Search Index button to recorded search event data.

5.3 Playback

- This involves searching recorded video to playback the wanted video of a specific date and time in search mode.
- Press **SETUP** key or please press the mouse right button and click in Playback mode. Then, the following screen will appear.



- There are three ways to search video, i.e., by date/time and by calendar.
 - Date/Time Search: search by inputting date/time.
 - Calendar Search: search by using calendar.
 - Event Search: search by event.
- There are three other functions in playback mode;
 - Archive: The Archive function will allow user to copy the recorded video (moving images and still images) from a storage device (USB memory stick).
 - Exit Search: From playback display to live display.
 - Cancel: Hide menu in playback mode.
- Playback mode runs in the available maximum number of split screen format. To change the viewing mode, please press
 DISPLAY key or Camera Select key (1~16).



(NOTE)

Using a mouse: Double click to view the corresponding camera image in full view format and click one more time to back to Split Screen.

- Move the cursor of the mouse and the keypad control will appear at the bottom near the center of the screen.
- Every time user presses the **PLAY/PAUSE** key during playback mode, it is changed to '1X PLAY' and 'PAUSE'. The displayed sign on the screen also changes from ▶ to **II**.
- Following is the key usage found in playback mode. User may also use the keypad provided on the screen.

Go to Start		Go to start of recorded data			
REW	•	 Fast reverse playback (changes to x2, x4, x8, x16, x32, x64 and Extreme with each press) 			
BACKWARD	◄	ame-by-frame reverse still image playback			
PLAY	•	layback mode: 1X PLAY			
PAUSE	П	AUSE			
FORWARD	•	rame-by-frame forward still image playback			
FF	•	 Fast forward playback (changes to x2, x4, x8, x16, x32, x64 and Extreme with each press) 			
Go to End	►I	Go to end of recorded data			

• Press SEARCH key to stop playing back video.

5.4 One-touch Playback

• Press the **PLAY/PAUSE** key or click the mouse wheel (central button) in the viewing mode. Then, user will be able to view the wanted recorded video right away without going through the search procedure. The video plays back the recorded video from the last one minute. To stop playing back the video, please press **SEARCH** key.

5.5 Archive

- The Backup function will allow user to copy the recorded video (moving images and still images) from a storage device (USB memory stick).
- Please execute Backup Live or playback.
- Follow the backup procedure.
 - ① Press **ARCHIVE** key. In case of using a mouse, please press the mouse right button and click in Archive. Then, the following screen will appear.



- ② Click (↔) Format frame to select EXE or JPEG. Choose EXE for storing moving images; and JPEG for still images.
- ③ Click (+) the keyboard display on the right-hand side of FROM frame to set the storage start time.
- ④ Click (+) the keyboard display on the right-hand side of TO frame to set the storage end time.
- ⑤ Click (↔) Destination frame to select a storage device out of USB.
- ⑥ Click (↔) the keyboard display on the right-hand side of File Name frame to input a file name. User does not need to input extension (exe, jpeg). Please note that the file is not going to be stored unless user inputs a name.
- ⑦ Check ☑ a check box next to a camera with the video that want to store. User can archive multichannel at the same time.
- ⑧ Click (↔) the Calculator button is on the rightmost side of Format line to check the data capacity for backup. The capacity will show only for EXE Archive.
- ③ Click (+) Start button. Then, Progress bar will appear and the storage process proceeds. The progress bar does not show actual progress time. Depending on to the file size, it will appear again even after it shows 100%. It is important not to detach storage device until DVR displays "Archive Success" message.
- 10 If the storage is done properly, Archive Success message will pop up. Please choose 'OK' to confirm. If the storage fails, Archive Fail message will pop up. In this case, user must try again.

(NOTE)

PLEASE DO NOT USE JPEG FORMAT SELECTING WHILE ARCHIVING IN LIVE MODE.

(NOTE)

PLEASE DO NOT CHANGE THE SETTINGS BY DVR OR CMS, WHILE BACKUP.

(NOTE)

WHEN THE TARGET FILE SIZE IS OVER 2GB, PRESS " 💷 " BUTTON ON THE RIGHT AGAIN AFTER THE FIRST "ARCHIVE SUCCESS". AND DVR WILL CONTINUE TO ARCHIVE TO ANOTHER FILE WITH THE EXTENSION OF "-002" AUTOMATICALLY ADDED. IN CASE OF DVD MEDIA, CHANGE IT AFTER THE FIRST FILE IS FINISHED AND PRESS " TO CONTINUE TO THE REST OF PROGESS.

CAUTION

PLEASE DO NOT USE THE SPACE IN BACKUP'S FILE.

CAUTION

WHILE BACKUP, PLEASE DO NOT DETACH STORAGE DEVICE OR POWER OFF THE DVR. OTHERWISE, IT MAY CAUSE PERMANENT DAMAGE TO THE DVR OR THE STORAGE DEVICE. IN SUCH CASE, YOU MUST REBOOT THE DVR. IF THE DVR DOES NOT OPERATE PROPERLY, YOU MIGHT NEED FILE SYSTEM RECOVERY PROGRAM OR YOU MUST FORMAT HDD.

5.6 Color Control and Position

• Please click (↔) Color /Alarm in SEARCH menu and the following input box will appear.

(NOTE)

THIS FUNCTION IS ENABLED ONLY WHEN LIVE MODE AND 1 CHANNEL MODE



- If user clicks (**Default**), proper number of Color Control or HSTART/VSTART will appear automatically. Please choose 'OK' to confirm the setting.
- Click (←) ▲, ▼ direction buttons on the right-hand side of Brightness/Contrast/Saturation to set adjust color of the screen (i.e. 0 ~ 255)
- Click (←) ▲, ▼ direction buttons on the right-hand side of HSTART / VSTART to set adjust display poison.
- If user wants every camera to have the same mode, please click (↔) Copy to All Camera.
- Choose 'OK' to confirm the setting.

5.7 Alarm Out Control

• Please click (+) Color / Alarm in SEARCH popup menu or in front panel and the following input box will appear.

(NOTE)

THIS FUNCTION IS ENABLED ONLY WHEN LIVE MODE AND 4 SPLIT SCREEN MODE OR HIGHER.

(NOTE)

ONLY 4 ALARM CONTROLS ARE AVAILABLE FOR Type A MODEL.



- Check 🗹 a check box next to a alarm control user wants to on/off alarm out control.
- Choose 'Close' to confirm the setting.

Stand Alone Digital Video Recorder

CMS (Central Monitoring Station)

User's Manual



V2.08-0199 This document contains preliminary information and is subject to change without notice.

6. PROGRAM INSTALLATIONS

6.1 System Recommendations

- The followings are our recommendations for system configurations/specifications used with CMS.
 - Processor: Intel Pentium(R) (at 2.8GHz or higher)
 - Memory: 1.00GB or more
 - Video: 128 MB AGP VGA card, 1024 x 768 Resolution, 32-bit Color, DirectX® 8.1 version or later
 - HDD Space: 500 MB of space
 - Monitor: SVGA or XGA, 1024 x 768 Resolution, 32-bit Color
 - OS: Windows® 2000 (SP4) or Windows XP only

6.2 Program Installation Method

· Please follow the program installation procedures below.

① If an old version of CMS program was installed, completely remove or delete the old version.

CAUTION

YOU SHOULD COMPLETELY REMOVE CMS PROGRAM OF AN OLD VERSION BEFORE INSTALLING NEW VERSION TO REDUCE COLLISION.

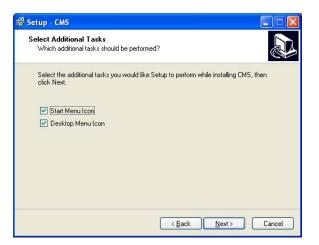
- 2 Insert CD in DVD-RW.
- 3 Run the CMSSetup.exe file.
- ④ When the following screen appears, click Next.

🕼 Setup - CMS	
	Welcome to the CMS Setup Wizard This will install CMS on your computer. It is recommended that you close all other applications before continuing. Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

(5) When the following screen appears, select folder and click Next.

Setup - CMS	
Select Destination Location Where should CMS be installed?	
Setup will install CMS into	the following folder.
To continue, click Next. If you wou	uld like to select a different folder, click Browse.
C:\Program Files\CMS	Browse
At least 9.9 MB of free disk space	is required.

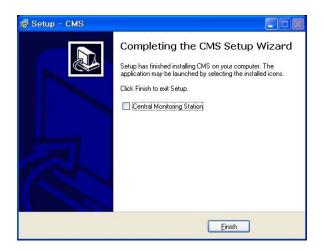
⁽⁶⁾ When the following screen appears, mark additional icons that wish to make and click Next.



⑦ When the following screen appears, click Install.

	ip - CMS	
	dy to Install	1
5	etup is now ready to begin installing CMS on your computer.	C
	lick Install to continue with the installation, or click Back if you want to review or hange any settings.	
C	Destination location: C:\Program Files\CMS	_
A	- Additional tasks:	
	Start Menu Icon	
	Desktop Menu Icon	
		~
1		2
	< <u>B</u> ack Install	Cancel

(8) When the following screen appears, click Finish to complete the installation.



6.3 Login

- After install CMS software, CMS icon below appears on desktop.
- \odot
- Please double click on the icon to execute the program.

7. FUNCTION AND INSTRUCTIONS

• Below lists are functions of the program.

ICON		WATCH MODE	SEARCH MODE	REMARKS
LOG		System Log		DVR System Log
РТZ		PTZ Control		DVR PTZ Control
Health Check		System Health Check		DVR System Health Check
Remote Search			DVR Data Playback	DVR Data Playback
Local Search			CMS(PC) Data Playback	CMS(PC) Data Playback
Remote Event			DVR Event Record Data	DVR Event Record Data
3	REMOTE WATCH		Changed to Watch Mode	
9	REMOTE SEARCH	Changed to Search Mode		
FT	LOCAL SETTING	Local Setting		CMS Setting
	REMOTE SETTING	Remote Setting		DVR Setting
9	ARCHIVE		Archive(Moving Image)	Playback Image Archive
	E MAP	View E map image		
+	DVR(Name)	DVR Activation		DVR Select
(U)	REMOTE CONNECT	DVR Connection		Network Connection
0	REMOTE DISCONNECT	DVR Disconnection		Network Disconnection
	Exit CMS	DVR Disconnection		Network Disconnection
•	INSTANT RECORD	Instant Record		Watch Screen Recording
	IMAGE PRINT		Print	Playback Image Print
	IMAGE SAVE		Save(Still Image)	Playback Image Save
		Full Screen		
		Quad Screen		
		9-Split Screen		
		16-Split Screen		
5 6		36-Split Screen		
64		64-Split Screen		
א א צ		Zoom Mode (Setup screen disappears and (Cancel: click the right mouse b		

8. WATCH MODE

8.1 Login Screen

• When user login CMS, the following screen will appear. This screen is of Watch mode.



- Because it is not connected to DVR, images do not show.
- Please do Local Setting first before connecting to DVR.

8.2 Local Setting

- Please click LOCAL SETTING button of Toolbar and the following screen will appear.
- This menu is for CMS (PC) and Network setup.

8.2.1 System Setup

• This menu is for CMS (PC) setup.

ALC: NOTE: NO				
Current Version	2,05,05	Language	English	•
Time Format				
Date / Time	2009-06-09 1	3:59:33		
Date Format	YY - MM - DD		-	
Time Format	24 Hours	•		
Display Option				
Default Division	16 DIVISION		ode VUY2 Mo	de(Default) 👻
FULL Emap Displa	y 🗖 FULL Scr		t In Display	□ DeInterlace Off
FULL Emap Displa Security Option Verify Login F Startup	Administrator		t In Display	
Security Option Verify Login		een Display 🦵 Tex	t In Display	C Deinterlace Off
Security Option Verify Login I Startup	Administrator	een Display 🦵 Tex admin	t In Display	
Security Option Verify Login IT Startup IT Setup	Administrator	admin	t In Display	

- CMS VERSION: displays current version of CMS.
- Time Format: displays current time and allow user to set date and time.
- Display Option:
 - Default Division: default displays division.
 - Display Mode: (Default: YUV2 Mode (Default)).
 - FULL E Map Display: full E Map displays (page 67).
 - FULL Screen Display: display in Full Screen depending on to the resolution of PC.
- Security Option: Set up user's ID, Password and attribution for login CMS.
 - Click Account and will display following.

Local Settin	9		
	Remote Site		
CURRENT	Account	× •	
Time Form Date	Manager User	USER ID	
Date		Password	
Time Display Op		T Remote Setup	
Defau		T Local Setup	•
		Instant Recording	
Security O Verify Logi		☐ Search	
🖂 Startu		Г РТZ	1
C Setup		F Health Check	
Save Optic		Add & Apply Delete Close	
		OK	Cancel

- Manager/User: allow user to authority.
- Save Option: allow user to select Drive(C, D) and folder to save data.
- Choose 'OK' to confirm the setting.

8.2.2 Remote Site

- This menu is for Network setup.
- Make CMS IP address and Port coincide with DVR.

ocal Setting System Setup Remote	Site						
Remote Site Connec	tion Setup						
Site Name	192, 168, 10, 13	•	Scan	DVR	Cam	nera Nam	ne
IP Address/Domai	n Name 192, 168, 10, 13						
Command Port	3320	_					
Streaming Port	5921	E Re-c	connect wh	ien abn	ormal di	sconnec	ted
Remote Site Login S	etup		Transfe	r Came	ra Selec	t	
Lasta ID			I		2 🔽	3 🔽	4
Login ID	admin					7 🔽	
Login Password	****					11 🔽	
	1			3 🗸	14 🔽	15 🔽	16
E-map Setup Map File Name				_	File	Open	
Popup Display Event Pop	up View 🔽	Beep	V	Cove	ert On		
		Add S	ite	Delet	e Site		
					0k		Cancel

Remote Site Connection Setup

- <u>Site Name:</u> input DVR site name to be displayed on the right-hand side of DVR icon. Please note that this name has nothing to do with the ID registered in DVR. User may create a name that is fairly easy to distinguish.
- IP Address/Domain Name: input IP address or Domain Name of DVR (check with SETUP>DEVICES>Network in DVR).
- <u>Command Port:</u> input Administrator's number among port numbers set in DVR (check with SETUP>DEVICES>Network in DVR).
- <u>Stream Port</u>: INPUT Video/Audio number among port numbers set in DVR (check with SETUP>DEVICES>Network in DVR).
- <u>Re-connect when abnormal disconnected</u>: When the CMS has abnormally disconnected, it automatically verifies the network condition, then tries reconnecting to designated site.
- Scan DVR
 - This function automatically detects and registers units currently connected to local networks.
 - Click "Scan DVR", then following will pop up.

OVR Scan				X
IP	Admin	Stream	MAC Address	
Scar	DVR	Add Site	E×it	

- Click "Scan DVR" button then IP address of DVR will be listed which is currently connected with PC in the network.
- Select the IP address and click "Add site" then the connected DVR is automatically registered in the CMS.

Camera Name

- It helps to set the camera name in CMS program other than DVR camera name.
- Click "Camera Name" then follow will appear

Camera name setup		
Current Site 192.168.10.173	•	
	○ by CMS setting	C Both
Camera Name		
Camera 1	Camera 9	
Camera 2	Camera 10	
Camera 3	Camera 11	
Camera 4	Camera 12	
Camera 5	Camera 13	
Camera 6	Camera 14	
Camera 7	Camera 15	
Camera 8	Camera 16	
Clear all names	[OK Save Cancel

- Select one site by clicking "Current Site".
- Choose camera name between DVR and CMS setting or both.
- By DVR setting : Display camera name of DVR.
- By CMS setting : Display Camera name of CMS.
- Both : Display both as [DVR name]-[CMS name].
- Type the name of each cameras in "Camera Name" item. It is not available when select displaying DVR name only.
- It is possible to erase all names by clicking "Clear all names".
- Click "Save" to save the setting.
- Save and close the setting panel by clicking "OK".
- Exit without saving by clicking "Cancel".
- Remote Site Login Setup: Input ID and Password.
 - Please do not input ID and Password if wish a popup window for logon ID and password to appear at the time of connection to CMS.
 - Please input ID and Password if wish to connect directly to CMS without ID and password verification.
 - ID and Password should be coincident with those of DVR. If Password for DVR has not been set up, enter ID only (check with DVR: SETUP>SYSTEM>Account>User in DVR).
 - Transfer Camera Select enables user to set the kind of channel(s) that show during the initial connection.
- Add Site: Click this button to add DVR site. User may be able to register up to 256 DVR site.
- Delete Site: use this button to delete the already registered DVR site(s).
- E-map Setup: Use this to upload saved E-map image file (see 10.2 E-map).
- Popup Display: Setup for beep and popup displays when event input.
- Beep: Beep when event occur.
- Covert On: Tick the box off, then it shows the covert screen.
- Please choose 'OK' to confirm the setting.

8.3 Live Video

8.3.1 Network Connection

- As the setup is completed, user should connect CMS to DVR over Network.
- Please click in REMOTE DVR on the screen.
- It will turn to blue, while being activated.
- Please click REMOTE CONNECT button.
- If a popup window for ID/Password appears, please input ID/Password. The window may not show up at all depending on Remote Site Login Setup.

(NOTE)

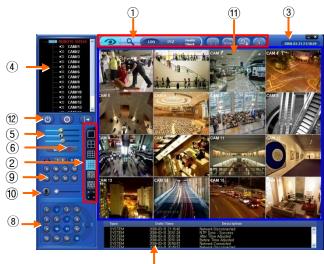
If there is no Admin Password set up in DVR, user may log-in to Admin for CMS and enter without Password. (NOTE) Before network connection, be sure that HDD is installed. Otherwise, the DVR will not be connected over network.



- If video does not display, please check Local Setting again.
- Site Tree of DVR will show with the video. Site Tree lists DVR sites being currently connected to the CMS.
- This is Live video of the connected DVR.
- User can connect maximum 16 sites simultaneously
- If user clicks Remote Disconnect, interface with a site is disconnected.

To connect another DVR, please press REMOTE DISCONNECT button to disconnect the current DVR and connect the new DVR.

If wish to exit CMS program, click on Exit CMS button.



• The list below describes functions of each part of the screen.

1	Tool Bar
2	Watch Mode
3	Date/Time LED
4	Site Tree (DVR and Channels)
5	Color Control Bar
6	Instant Record Button
7	System Log
8	Alarm Out Channels
9	Audio Channels
10	Two way Audio
11	Video Display Screen
12	Network Connect/Disconnect Button/Exit CMS

8.3.2 Watch mode

The first image (or the initial image) shows the available maximum split screen format, but user is able to select a watch mode among below modes.



36

- Full Screen Mode: Select a channel and click on FULL SCREEN button. Then, the corresponding channel will display in Full Screen.
- Quad Screen Mode: Click on QUAD SPLIT button and a quad screen will display. The quad screen is in combination of 1~4, 5~8, 9~12 and 13~16. If user selects Channel No. 7 and click the button, 5~8 quad screen will display. Similarly, if user selects Channel No. 16, 13~16 quad screen will display.
- **9-Split Screen Mode:** Click on 9-SPLIT button and 9-split screen will display. The 9-split screen is in combination of 1~9 and 8~16. If user selects Channel No. 9 and click the button, 1~9 split screens will display. Similarly, if user selects Channel No. 10, 8~16 split screens will display.
 - **16-Split Screen Mode:** Click on 16-SPLIT button and 16-split screens will display.
 - 36-Split Screen Mode: Click on 36-SPLIT button and 36-split screens will display.
- 64-Split Screen Mode: Click on 64-SPLIT button and 64-split screens will display.
- **Zoom Mode:** Click on Zoom button. Then, the setup screen will disappear and only the video image will be zoomed (scaled to fit the screen). To cancel, please press the right mouse button.

E Map: load and close E Map image program.

• Mouse Double Click: If user does double click of the mouse on a split screen, it will turn to full screen mode. Double click the mouse to back to the previous watch mode.

(NOTE)	
A selected channel is outlined in red.	



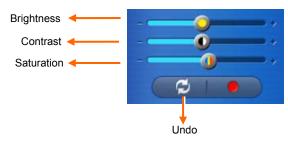
8.3.3 Multi Screen

- CMS supports multi remote site connections simultaneously.
- Server Drag & Drop: Drag & Drop Remote Site of site tree to any screen. Then all cameras of the site will display sequentially.
- Camera Drag & Drop: Drag & Drop a camera of Remote Site to any screen. Then the camera will display.



8.3.4 Screen Color Adjustment

- Adjust color of the screen using three bars (Brightness / Contrast / Saturation). Selecting a channel and dragging the bar(s) with a connected mouse. Color will change in about 7 seconds.
 - Click on UNDO button to return to the original colors.



8.3.5 Audio

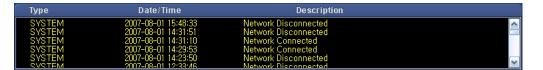
- Click an audio channel to listen to the corresponding channel.
- User may adjust the audio volume with a mouse.
- Click a MIC Icon to use to two way audio.



8.3.6 System LOG

LOG

Click on LOG button on Watch screen. This will allow user to check System Log of Remote Site (DVR).



8.3.7 Alarm Out

- This is for operating Alarm Out of a selected DVR from a remote distance.
- Click a channel number and Alarm Out of the corresponding channel will operate.
- If user sees an intruder, use this function to turn on a siren in an area where the DVR is installed.

1	2	3	4
6	6	1	8
9	10	11	(12)
13	14	15	(16)

8.3.8 One Touch Recording

Click on INSTANT RECORD button to save video of every channel in HDD of Local System (PC with CMS installation).

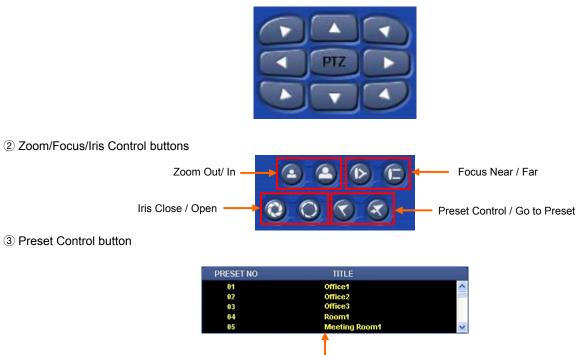
8.4 PTZ Control

- This is for the control of Pan/Tilt of DVR.
 - PTZ

Click on PTZ button in Watch mode and the following screen will appear.



- Buttons on the screen have the following functions.
- ① Up/Down/Left/Right direction buttons





• Click on Preset Control button and the following screen will appear. Please input Title and Preset Number.

Preset Control		X
		_
TITLE		
Preset NO		
	-	
,		
Delete		
Delete		
OK	Cancel	

- When user completes the inputting, please choose 'OK' to confirm.
- Press LOG button to go back to Live video.

8.5 Health Check

• This function allows user to check operating status of each unit in DVR connected to CMS.

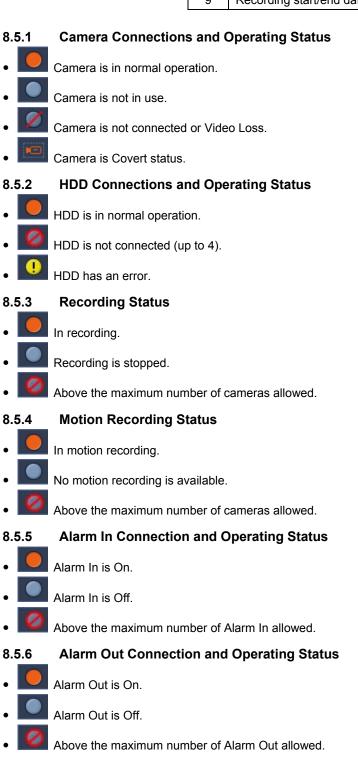
Health Check

Z Click on Health Check button in Watch mode and the following screen will appear.



• The list below describes functions of each part of the screen.

1	CMS connections (up to 4)
2	Camera connections and operating status
3	HDD connection and its operating status
4	Recording status
5	Motion recording status
6	Alarm In connection and operating status
7	Alarm Out connection and operating status
8	Version
9	Recording start/end date and time



8.6 Remote Setting

- User may change DVR's Menu setup through CMS.
- Remote Setting works only in Watch mode.



Click on REMOTE SETTING button in Watch mode and the following SETUP menu same as DVR's will appear on CMS screen.

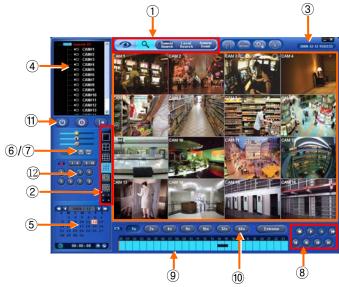


- The setup procedure is same as that of DVR.
- When the setup is completed, do not click Exit button on the SETUP screen, but click OK or Cancel button on the Remote Setup screen.

9. SEARCH MODE

9.1 Search screen

- This menu is for playing back recorded data.
- 0
- Click on REMOTE SEARCH button in Watch mode and the following Screen mode screen will appear.
- Search mode provides three search functions. One is for searching DVR video by clicking REMOTE SEARCH button and another is for searching video stored in CMS (HDD of PC) by clicking LOCAL SEARCH button and the other is for searching event recorded data stored in DVR by clicking REMOTE EVENT button.



• The list below describes functions of each part of the screen.

1	Tool Bar
2	Watch Mode
3	Date/Time LED
4	Site Tree (DVR and Channels)
5	Calendar
6	IMAGE PRINT button
7	IMAGE SAVE button
8	Playback control button
9	Time Select Bar
	Fast Forward/Backward & Playback
10	(Click to increase the speed by x1, x2, x4, x8, x16, x32, x64 and Extreme)
11	Network Connect/Disconnect button
12	Audio Channel (Display selected Audio channel)

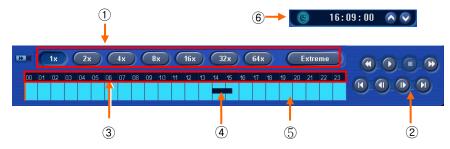
9.2 Remote Search

Remote Search

- The REMOTE SEARCH button allows user to playback recorded video of DVR.
- Select Date
 - In Calendar, dates with recorded data are marked in red.
 - Click the wanted date among the dates marked in red. In background of Time Select Bar, data recorded time is displayed in bar shape.
- Select Time
 - Click the time want to playback, then Time Select Bar will move. User may drag the Time Select Bar with mouse.

	1	20	07	17		
S	М	Т	w	Τ	F	S
1	2	3	- 4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
	30	31				
•	1	16:	09 :	: 00	ę	

•	Search previous 'Year'		
*	Search subsequent 'Year'		
◄	Search previous 'Month'		
•	Search subsequent 'Month'		



1	Fast Forward/Backward & Playback (Click to increase the speed by x1, x2, x4, x8,
•	x16, x32, x64 and Extreme)
2	Select Camera to be played back
3	Time LED (24 Hour)
4	Data Bar (Recorded data)
5	Time Select Bar
6	Start Time (Time for starting playback)

• When Date/Time search is completed, please click Playback control button to begin playback.

9.3 Local Search

Local Search

> Remote Event

- **Search** The LOCAL SEARCH button allows user to playback recorded data in CMS (HDD of PC).
- Date/Time search procedures are same as Time Search.
- When Date/Time search is completed, please click Playback control button to begin playback.

9.4 Event Search

The REMOTE SEARCH button allows user to search event recorded data of DVR.

- CAM/2						
CAM/3				Event Taxe	Cam	Dete:Time
- +0 CAM#4			6			
- *D CAM/5						
- +3 CAM/6						
- •E3 CAM#7						
CAM/B						
+CI CAM/9			-			
•D CAM/10						
- •D CAMP11						
- CAMP12						
- •D CAM/13						
			1			
0 0			-			
<u> </u>	Option					
	Event Type	Emergence @ manuf)			
	POSATM		Bernath C			
	PUSHIN					
	Event Camera	100000	0.0.0			
E						
	Start Term	2001-12-1:+ 2.8 300	-			
		200F15-1 5 X# 300				
	End Time	2008-12-1: 2.8 3.03	2-1 -			
fel number hofes		Activity - Min of				
7 8 9 18 11 12 13						
18 15 15 57 18 29 20	THE FR	70 (10) (10	1 (No.) (37x	(SHE)	Extreme	
					C. COMMON	

- ① Designate Event Search start time.
- 2 Designate Event Search end time.
- ③ Select camera (video) to search data.
- (4) Check a check box (Motion/Alarm In/Emergency/Serial in) Check box
- 5 Click on Search Index button to recorded search event data.

9.5 Playback

9.5.1 Playback Control Button

• Select time and click Fast Forward/Backward button.



- Click ▶ button to begin playback.
- Use the control buttons below while playback.



₹	Fast Backward Play
	Fast Forward Play
	Play
	Stop
∎	Go to the First Image
	Go to the Last Image
◄	Go to the Previous Image
	Go to the Next Image

CAUTION

Make sure that use control buttons after STOP button. For example, if you want to change from Play mode to Fast Forward Play mode, press STOP button first, select the speed and then Fast Forward Play button. This applies equally when you use other buttons.

9.5.2 Print

- This is for printing a selected image (within the red outline).
- Click IMAGE PRINT button and the following screen will appear.
- Choose 'OK' to confirm the setting. Then, the printing proceeds.

Print			? ×
Printer —			
<u>N</u> ame:	HP DeskJet 672C		Properties
Status:	Ready		
Type:	HP DeskJet 672C		
Where:	LPT1:		
Comment	:	Г	Print to file
Print rang	e	Copies	
⊂ <u>A</u> ll		Number of <u>c</u> opi	es: 1 🔹
C Pages	from: to:		3 I Collate
	ion		2 [™] Collate
		ОК	Cancel

9.5.3 Save

- This is for saving still image(s) in Bitmap or JPEG file.
- Click IMAGE SAVE button and the following screen will appear.
- Input the name of the file to save and execute Save.

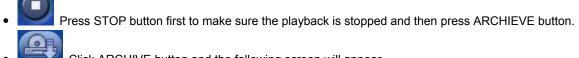
Save As					? ×
Savejn: 📃 My Co	mputer	- 🗈			
3½ Floppy (A:)					
(C:)					
Removable Disk ((E:)				
File name:	p				<u>S</u> ave
Save as type: BMP	Files(*.bmp)		•	0	ancel
				Op	otions

CAUTION

If images are not saved properly, click UNDO button and save again.

9.5.4 Archive

- This is to back up the DVR's moving image data to EXE file in PC(CMS).
- Work only in playback mode.



Click ARCHIVE button and the following screen will appear.

Archive	
From	2006-11-27 후 오전 4:21:17 후
То	2006-11-27 후 오전 4:21:17 후
File Name	Finename
Camera	
	9 10 11 12 13 14 15 16
Status	
	Start Cancel
Status	Start Cancel

1 Designate Archive start time.

- ② Designate Archive end time.
- ③ Designate file name.
- ④ Select camera (video) to save.
- (5) Click on Start button to begin Archive.

10. Others

10.1 Viewer

- The Format of archive file is .exe(executable file).
- Please double click on the icon to execute the program.



PLAY		Playback mode: 1X PLAY			
PAUSE	0	Playback mode: PAUSE			
BACKWARD		 Frame-by-frame backward still image playback 			
FORWARD		• Frame-by-frame forward still image playback			
REW		Fast reverse playback			
FF		Fast forward playback			
DEINTERLACE	Deinterlace	Deinterlace On / Off			

10.2 E MAP

- User can find emap.exe program following directory (Default: C:\Program Files\CMS\emap.exe).
 - .
- Please double click on the emap.exe to execute the program.



- Please click on the icon to load the image file.
 - Image: Constant of the second seco
- User can also rotate the icon.

- Please click on the icon and input the name of the E Map file to save and execute.
- Please click on the icon to exit program.
- Please click on CMS (PC) setup and select remote site tab and the following screen will appear.

Local Setting							(
System Setup Remote Site							
- Remote Site Connection Se Site Name IP Address/Domain Name	#4	Ţ	Scar	n DVR			
Command Port Streaming Port	5921	 Re-cor	nect when	abnorma	al discon	necte	d
-Remote Site Login Setup-			Transfer (Camera S	Select		
Login ID adm	n				☑ 3 ☑ 7	1	8
Login Password			9 13		11 1⊽ 15	ব	
E-map Setup Map File Name	J				File Oper	n	
Popup Display F Event Popup View	v E	Beep Add Site		Covert Oi Delete Sit			
			[Ok		Ca	ancel

- Please click on file open button and select the E Map file to load.
- Please click on OK button to exit program.
- Click button and user can use E Map function.
 (User cannot use E Map function in the Search Mode, Health Check Mode)
- To move an E Map image, just click the image after connected the DVR.

10.3 Watermark Check System

• Mouse double click WCS.exe program in the CMS program folder (Default: C:\Program Files\CMS\WCS.exe).

💩 WCS(Waterma	rk Check System) v1.0	X
	Load File	
	Check	
Result		
File Name:		
Result:		
	Close	

- To open the check .exe or .jpg or .bmp file just click Load File button.
- To click the check button, user will get following message;

Result:
Verification OK !
Corrupted or Modified

10.4 Estimator

- After the installation of CMS program, the application, Estimator will be installed together.
- The operation screen is as follows.

M	AX C	hanne	H(s) 16CH -	Vide	e Type	NTSC	: <u>*</u>		Disk Size(GB)	80	
GH	FP	s	Video Size	Video O	uality	CH	FP	s	Video Size	Video Q	ualit
1	7	•	360x240 💌	High	•	9	30	٠	720×480 -	High	
2	30	-	720×240 •	High	*	10	7	•	720×480 •	Standa	rd 🔻
3	7	-	720×480 -	Standa	rd 🔻		1	•	360×240 -	Standa	rd -
4	15		360×240 •	Standa	rd 💌		15	٠	720×240 •	Super	
5	15	٠	720x240 💌	Super	-	13	30	٠	360x240 •	Super	2
6	7	*	720×480 •	Super		14	15	•	720x240 💌	High	
7	30	-	360×240 -	High		15	7	-	360×240 -	Super	1
8	30		720×480 •	Super		16	30	-	720×480 -	Standa	rd •
ſ	Es	timat						0.4	34		

- At Setup>Record>Settings, by changing settings, user can estimate data size, maximum recording days in advance.
- Set DVR channel, video type, hard disk size of use.
- After setting FPS per channel, video size, video quality, click **Estimate** button. Then the maximum recording days and data size will show.

10.5 EXE to AVI Converter

- Users are able to convert Archived file(EXE format) to AVI format.
- Users will be required a converting codec between " Microsoft MPEG-4 codec" and "DIVX MPEG-4 codec" or able to use both.
- Both are able to download freely in many web-sites.
- Select "Start>Programs>CMS>EXE to AVI" to open the program

🏭 File Converter 1,0	×
	🗖 Camil 🔲 Camil 🗖 Camil 🗖 Camil
	🗖 Cam5 🔲 Cam6 🔲 Cam7 🔲 Cam8
	🗖 Cam9 🔲 Cam10 🗖 Cam11 🗖 Cam12
	🗖 Cam13 🔲 Cam14 🗖 Cam15 🗖 Cam16
	File Open Exe To Avi File Stop
	Video Encoder MicroSoft MPEG-4
	,

- Click "File Open" and choose an Archived file(EXE format)
- Click "EXE to AVI File" and select a directory to save the converted AVI file.
- Select a channel to convert (Only one channel can be converted at once)
- Select a Video Encoder between Microsoft and DIVX encoder
- Click "Save" then converting will automatically start.

Keyboard Controller

Keyboard Controller CP1200A

User's Manual

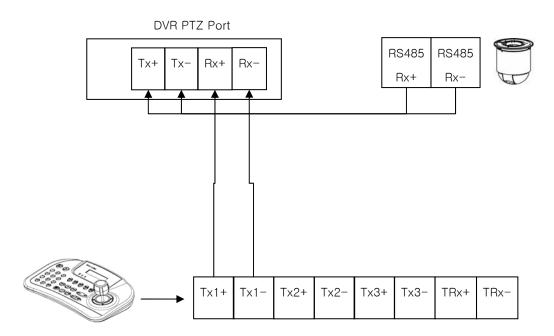


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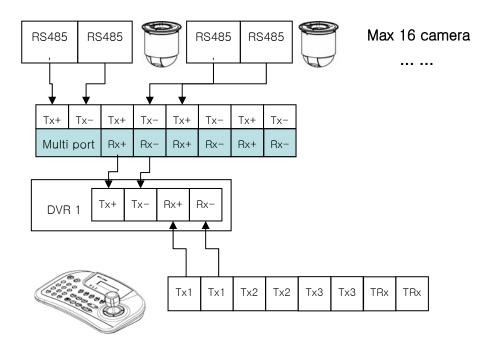
11.1 Connection

User may connect cameras and Keyboard through DVR in various ways. Below shows the major probable connection methods through RS-485;

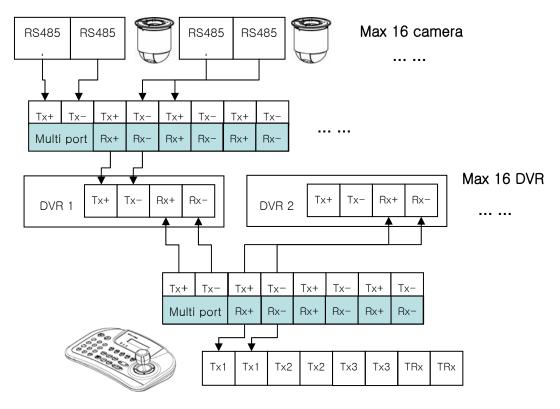
11.1.1 Configuration Diagram I – Single System Configuration (1 Camera, 1 DVR)



11.1.2 Configuration Diagram II – Multiple System Configuration (Multi Cameras, 1 DVR)



11.1.3 Configuration Diagram III – Multiple System Configuration (Multi Cameras, Multi DVRs)



Please make sure to connect "Tx to Rx "or "Rx to Tx" with positive polarity. (+ to +) and (- to -)

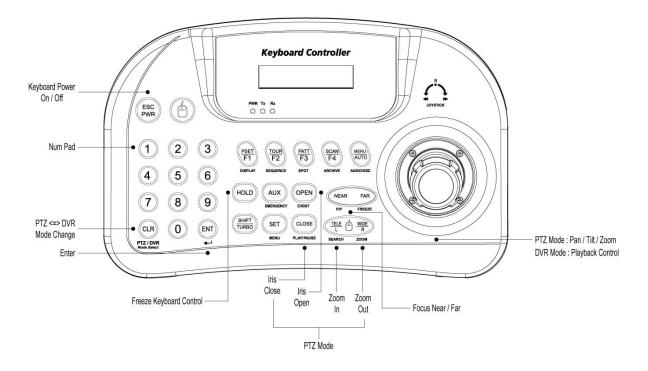
11.2 Keyboard Setup in DVR

- Enter "Setup>SYSTEM>Information: System ID" and define the ID of DVR
- When user connects more than two DVRs then each DVR has to have a different ID.

Information	SYSTEM	Information	SYSTEM
DVR Description	DVR1	DVR Description	DVR11
System ID	1	System ID	11
IP Address	192.168.123.210	IP Address	192.168.123.214
Disk Usage	10 GB remains / 244 GB Total	Disk Usage	10 GB remains / 244 GB Total
Language	English >	Language	English
Setup	Default Import Export	Setup	Difault Import Export
System Log	Export	System Log	Export
Status Version	Record	Status Version	Record
	(3)		

- Then move to "Setup>Device>Camera/PTZ: Keyboard" and select CP1200A
- Then, choose PTZ protocol and Camera ID

Camera	/PTZ		DEV	ICES				Car	nera	IPTZ		DEV	ICES				
No	Title		Cvt.	PTZ	Set.			N	•	Title		Cvt.	PTZ		Set.	10	
	CAM1	3000		PELCO-D 🖗]]				1	CAM1	200		PELCO-D	9		17	÷ Ħ
2	CAM2	3000		PELCO-D 😤]]	2	-		2	CAM2	2000		PELCO-D	2		18	
⊻ 3	CAM3	201101		PELCO-D 😤]]	3	-		3	CAM3	2009		PELCO-D	6		19	
	CAM4	2000		PELCO-D 🖗]]	4			4	CAM4	-		PELCO-D	2	1	20	
	CAM5			PELCO-D 🔮]]	5			6	CAM5			PELCO-D	1		21	
	CAM6	3000		PELCO-D 🖗]]	6			6	CAM6	-		PELCO-D	2		22	100
	CAM7	See.64		PELCO-D 🖗]	7	-		7	CAM7	2000		PELCO-D	2	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	23	
8	CAM8	311103		PELCO-D]]	8	-		8	CAMS	2000		PELCO-D	6		24	
						3	۲	۲	1/2			Keyboard		CP12	00A	B	
					(



11.4 Operation 11.4.1 DVR / PTZ Mode Conversion

- Press System ID number (For example, ID: 001 press Num Pad 1) with with button.
- OSD will show "KBD:1" in right-bottom side that the keyboard is on DVR mode as below picture;



• Then, user should be able to operate the DVR functions by the keyboard controller.

11.4.2 DVR Control Mode

- In DVR control mode, all buttons are operated according to texts written underneath of each button. The functions are same as Front buttons of DVR as follows:
 - DISPLAY: change channel split screens in sequence of 1>4>9>16>1.
 - SEQ: turn on/off Sequence function.
 - **SPOT**: change the channel of a screen connected to the Spot monitor.
 - ARCHIVE: pop up Archive window.
 - **AUDIO/ESC**: shut down window when Setup window appears. Otherwise, it activates the AUDIO function. Any setup changes during shutdown are not saved.(same as Cancel)

- **EMERGENCY**: turn on/off Emergency record function.
- EVENT: pop up a window to see System Log.
- **PIP**: turn on/off PIP screen in case of 1 channel screen. If PIP function is on, user **number key(s) + ENT** key to change the PIP channel. In case of 4 or 9 channel screen, it changes the screen to a next one in the sequence.
- FREEZ: freeze a current image.
- SETUP: pop up Setup window.
- PLAY/PAUSE: play/pause recorded data in play mode.
- **SEARCH**: pop up Search window, or switches play mode to search mode.
- ZOOM: zoom in a current image.
- JOYSTICK (REW): rewind in sequence of 2X, 4X, 8X, 16X, 32X, 62X, Extreme in play mode.
- JOYSTICK (FF): fast forward in sequence of 2X, 4X, 8X, 16X, 32X, 62X, Extreme in play mode.
- JOYSTICK(SETUP): operate with direction keys if Setup window is popped up. (up/down/left/right)
- ENT: view a channel in full screen (by selecting a number with ENTER button).

11.4.3 PTZ Control Mode

CLR

- Push source to exit DVR mode and turn PTZ mode.
- Press number keys + "ENT" (Hold for a while until double beep sounds) key to change to Camera ID that wish to control. If there is a corresponding Camera ID, a full camera image will show up and PTZ control is possible.
- It is able to control 255 devices.
- PSET: Preset save Number keys + PSET (Hold for a while until double beep sounds)
 Preset shift Number keys + PSET
- Joystick: PAN/TILT, Zoom In, Zoom Out
- TELE: Zoom Out
- WIDE: Zoom In

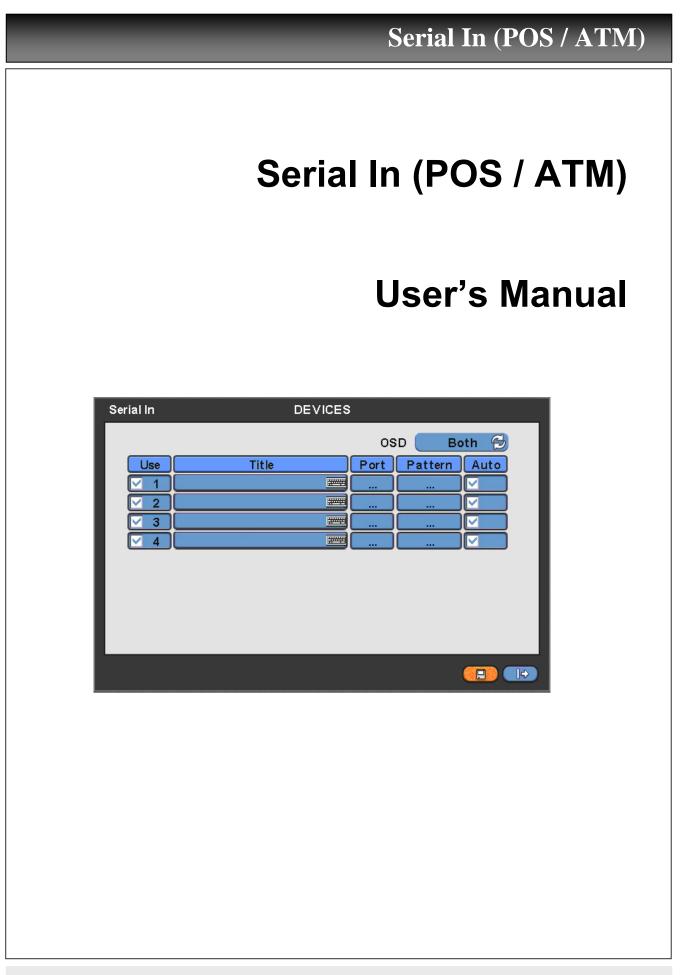
(Note)

When a Key does not Work after Set up

- If the communication speed of DVR and CP are not co-related, it may not work. Please make sure the Baud rate of Keyboard sets on 9.6kbps.
- Press the button to enter PTZ mode and switch to DVR mode again.
- Please reboot the DVR.

When Tx Blinks Continually on the LED Window

- If Tx blinks continually without any operation, it may be mistakenly set up for Joystick.
 - OFFSET of the Joystick may not appropriately set up.
 - Please touch the Joystick and position it on the center.



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12.1 Usage of Serial-In Function

- Enables to record/search/display all transactions on monitoring screen by connecting POS/ATM/Cash Register.
- · User can choose the data whether to record/display on their taste without limitedly designated protocols

12.2 Connection method

- This model has one ATM/POS channel and it is available to expand its connections up to four channels(Optional).
- Connect the RS232 port of Serial-in application to USB slot of DVR by using USB to RS-232 Converter Cable and it is available to connect up to 4 serial-in devices by using the converter.
- Applicable converters as follows
 - FTDI chipset included converter
 - Prolific PL2303 / PL2303X / PL2303HX chipset included converter
 - Winchiphead chipset included converter
- When use a converter, please connect USB slot of DVR first, then restart in order to the DVR recognizes the USB converter.
- When use a multi-converter, the port recognizes as Number 1 as its shortest line of converter consequently.
- When use both single and multi-converters, single converter is recognized as Port Number 1.

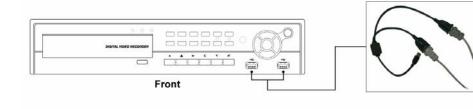


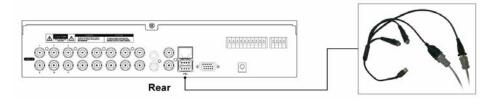
(Note)

It is available to connect 1 Serial-In application without additional option.

12.3 Connection Diagram

• Using USB: Connect RS-232 port to USB port at front/rear of DVR by using a converter

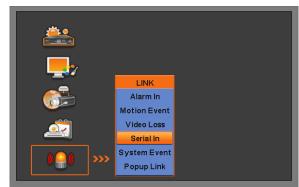




12.4 Link

12.4.1 Link Setup

• Click "Setup>Link>" then shows as below



(Note)

The above menu is only available on the DVR model with Serial-In function.

• Click "Serial In" to appear following screen.

Serial In	LINK
Serial In	Serial In 1 😁
Link Camera	Link Alarm Out Link Notification
✓ 1 9	No E-Mail, IP/Domain
2 10	
3 11	
4 12	
5 13	
6 14	
7 15] 🔽 7 🔽 15 🔊 📎 1/1
8 16	

- Select POS/ATM port by clicking 'Serial In' button.
- Assign the port to display/record channel by clicking a "Link Camera".
- Select "Link Alarm Out" item to run alarm output when the serial in events occur.
- Designate the E-Mail address or IP/Domain name at "Link Notification" box when the serial in events occur.

(NOTE)

E-Mail address or IP/Domain configuration is possible to set in 'Setup>Network>Notification' menu.

- Set other POS/ATM port as above.
- Click "OK" to save the configuration.

12.4.2 Schedule Setup

• Click "Record>Schedule>" then shows as below

Sch	ied	ule)								R	ЕС	or	D											
		Ca	me	- ra	-			1		Z						C	nn v	/ † (hΑ		am	iera	15		
	00	_	02		04	05	06			_	10	11	12	13	14					_	20	_	_	23	
s	С	С	C	С	С	C	С	С	C	С	С	C	С	c	С	С	C	С	С	C	С	С	С	С	
М																									
Т																									
W																									
Т																									
F																									
S																									
H	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	С	C	C	C	C	C	С	C	C	
	С	oni	tinı	ιοι	JS] /	٩la	rml	n			P	/loi	tio	n			F	Pre	Ala	ırm	1	
																							_		
																						8			٠

- Tick the box(
) item AlarmIn
- Click the Time/Date that wish to activate ATM/POS function on schedule.
- It is possible to activate all the time by clicking top-right side of table.
- Click "OK" to save the schedules.

12.5 Setup

• Please click (+) "System>Devices>Serial-In", then user will see the display below.



(Note)

This [Serial In] section does not show without additional Serial-in option.

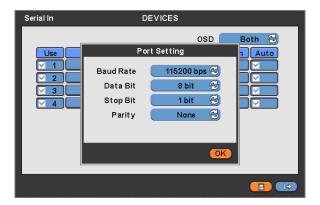


12.5.1 Title

- Click "Title" item then virtual keyboard will appear.
- Input the title then click (+) to save.

12.5.2 Port Setting

 Press (←) the "Port Setting" button in order to set up the port. Default values are Baud rate 2400 bps, Data Bit 5 bit, Stop Bit 1 bit, Parity None.



• When the setup is done, press enter (+) to save the setting.

12.5.3 **OSD** Display

- OSD items are to decide whether to display the information from the serial port connected to the rs232 port on OSD screen. They have 4 menus as followings:
 - None: displays nothing on the OSD screen.
 - Live: displays incoming information from the serial port in real time on the OSD screen.
 - Playback: displays the saved information on the OSD screen during replay.
 - Both: displays all the information on both Live and Playback mode.

12.5.4 Pattern Setting

- User can select the name of serial device if click (↔) the keyboard button of Title.
- When "Use" items of Numbers 1-4 are checked in Serial-In page, it receives the data from the applicable serial device. Check I the "Auto" item so as to capture automatically all the data which includes unnecessary dummy data out of serial
- device as below.



- Analyze among the automatically captured data which will be displayed or discarded then enter Pattern Setting. - Unless user checks "Auto" item, make sure to set up "Start Pattern" and "End Pattern" - "Discard Pattern", "Line Delimiter" and "MCPL" are utilized independently, not relation to "Auto" mode.
- It is possible to input and analyze the serial data by clicking "Pattern" after tick the "Auto" box(□) off.

Serial In	DEVICES
Pattern Set	ng Serial In
Start Pat	ern 📰
End Pat	ern 📰
Discard Pa	tern 1 🗧 🗕
Line Delin	ter 📰
м	PL 0 📰
	<u>ок)</u>

- · Each item explains below:
 - Start Pattern : Indicates the beginning of the new data when new designated data are received from a serial device.
 - End Pattern : Indicates the end of the data when designated data are received from a serial device.
 - Discard Pattern : Does not show the designated data on OSD screen. Sets up in order to designate
 - dummy data or characters which is not favorably to be displayed. Can be designated up to 64 of discard patterns in total.
 - Line Delimiter : Inputs characters to be used as delimiter between lines.
 - MCPL(Minimum Character Per Line) : Sets up the number of the minimum strings each line. Does not

show the characters on OSD screen if there is a character of which number is below the designated number in each line divided by the line delimiter.

Example)

• When it firstly connected, the data will be displayed as below

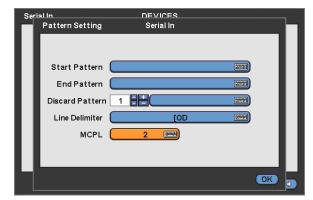


• Input a certain repeated string to "Line Delimiter".

Seri	ial In	DEVICES	
	Pattern Setting	Serial In	-
	Start Pattern End Pattern		
	Discard Pattern	1 2 -	
	Line Delimiter		
	MCPL	0	
			ok 🖯

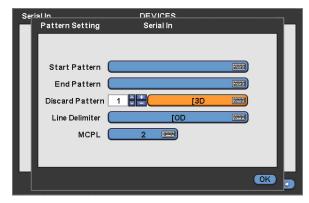


• Decide the number of minimum characters in "MCPL" item to hide data under the designated number of characters.



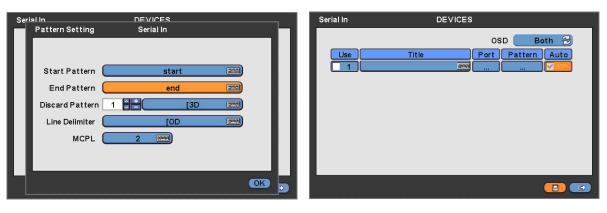


• Input the pattern of dummy data to Discard Pattern.





• Choose the data which willing to display and enter the Start Pattern and End Pattern.



• Then tick the Auto box off in order to make the DVR recognizes the data between the Start and End patterns.



· Finally, test again and adjust data to remove missed dummy data.

12.6 Search

- Using event search function.
- Please click (←) the "Search>Event Search" menu on the pop-up menu of the wallpaper, then user will see the following screen.

Event	SEARCH			
From	То			
2007/08/01/ 16:51:40	12 ~ 2007/08/02	13:10:17 12		
Camera	Time	Туре		
Camera 1 😔	2007/08/02 10:44:37	Espresso \$3.25		
Motion	2007/08/02 10:45:50	Cappuccino \$4.75		
Alarm In	2007/08/02 10:46:55	Caffe latte \$4.75		
	2007/08/02 10:48:10	Americano \$4.00		
Emergency	2007/08/02 10:56:21	Cappuccino \$4.75		
Serial In (POS/ATM)	2007/08/02 11:05:30	Espresso \$3.25		
(100//(111)	2007/08/02 12:10:17	Espresso \$3.25		
Coffee 📰	\land У 14	Search Index		

- It is possible to search the recorded data which is set up on Serial In and Linking pages.
- The keyboard button for setting up the characters to be searched activates only when the Serial In item is checked.

CMS Web Client

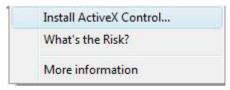
CMS Web Client

User's Manual



13.1 Setup and Login

- MS Explorer web browser is required for installation and using this program.
- Open a browser and type the IP address of DVR.
- It is required to install ActiveX in the first connection.
- Basically, Explorer limits automatic ActiveX installation.
- Click the message above in the screen, then following menu box will appear.



- Click "Install ActiveX Control..." and start installation.
- Installation box will appears and click "Install" for next step.
- After complete installation, Login panel will appear.
- Enter User ID and password of registered DVR then click

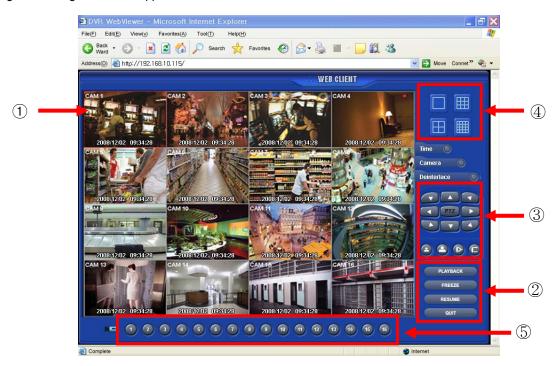
DVR WebViewer – Microsoft Internet Explorer			- X
File(F) Edit(E) View(v) Favorites(A) Tool(T) Help(H)			-
🜀 Back - 🕥 - 🖹 🛃 🏠 🔎 Search 👷 Favorites 🍪 🔗 - 嫨 📓 - 🛄 鑬 🦓			
Address(D) 🕘 http://192.168.10.115/	Move	Connet [»]	÷
WEB CLIENT USER ID PASSWORD	Internet		

(Note)

Before network connection, be sure that HDD is installed. Otherwise, the DVR will not be connected over network.

13.2 Live Display.

• After Login, following screen will appear.



- The screen contains following features:
 - 1. Display current live video
 - 2. Setting display mode
 - Playback : Transferring search mode.
 - Freeze : Pause current display.
 - Resume : Resume paused display.
 - Quit : Finish program and close browser.
 - 3. PTZ controller Must complete the control setting on its DVR and Cameras first.



- Pan/Tilt direction button.



D

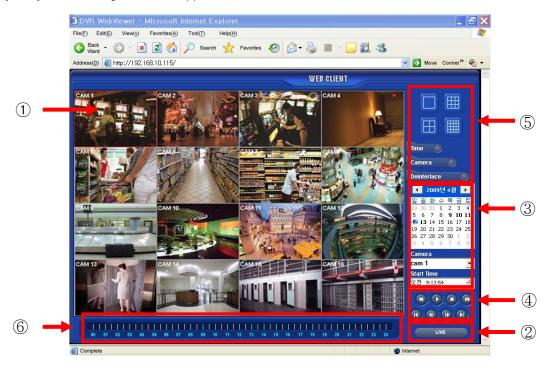
Zoom In / Zoom Out control button.

Focus Near / Focus Far control button.

- 4. Select display split mode. User can choose 1,4,9,16 split display consequently Check boxes for hiding/showing text from OSD.
- 5. Channel selection button available to check the channel (camera) number of current display.

13.3 Playback Screen

• Click [Playback] then following screen will appear.



• The screen contains following features:

- 1. Searched playback video displays
- 2. Transferring Live mode
- 3. Setting Date/Time to search
- Click a date in calendar, then recorded data will be showed up in Time bar
- Start Time : Setting start time
- Camera : Choosing camera number from 1~16 individually or all channels.
- 4. Play functions for playback .

	Fast Backward Play	
▶	Fast Forward Play	
•	Play	
	■ Stop	
	Go to the First Image	
►I	Go to the Last Image	
◄	Go to the Previous Image	
	Go to the Next Image	

- 5. Select display split mode. User can choose 1,4,9,16 split display consequently Check boxes for hiding/showing text on OSD.
- 6. Indicate the recorded data in Time bar figure.

Mobile CMS

Mobile CMS

User's Manual



14.1 Requirements

- OS : Windows Mobile 6.1 or higher version.
- ٠
- ٠
- Memory : 512Kb or Higher. Device : Smartphone Network : Available all wireless networking method. I.e. Wi-fi, HSDPA, Wibro. ٠

14.2 Installation

- Prepare ActiveSync program to user's PC.
 - Available download at following link.
- http://www.microsoft.com/downloads/details.aspx?FamilyID=9e641c34-6f7f-404d-a04b-dc09f8141141&DisplayLang=en _
- ActiveSync enable users manage documents, calendars, contact lists and email between their PC and mobile device _ through a Cradle or a USB connection.
- Connect mobile device to PC then double click "Setup_MobileCOM.exe" to start installation.
- The following screen will appear:

MobileCMS
Pocket PC installation MobileCMS will be installed on your Pocket PC now
USE: Smartphone : WinCE 6.0 / WinCE 6.1
< Back Next > Cancel

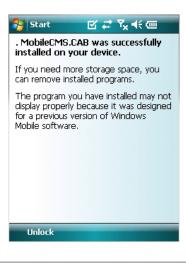
• Click "Next" button.

MobileCMS	
License Agreement Please read the following license agreem	ent carefully.
MobileCMS program	*
 I accept the terms in the license agreem I do not accept the terms in the license a 	
	< Back Finish Cancel

• Click accepting the license agreement, then click "Finish" button.



- Installation box will appear
- Click [OK] to start installation.
- When installation completed, following pop-up will appear.
- Click [OK].
- If following message appeared, it has successfully installed.



(Note)

Depending on mobile device, successful installation message may not appear. Click [OK] when license agreement message appear.

• Move to [Programs] page to check whether CMS has installed.

😚 Settings 🛛 🗹 🗮	Y _X ∢€ ok
Remove Programs	
Programs in storage memory:	
. MobileCMS	
	Remove
Total storage memory available:	27842K

14.3 Site configurationStart CMS, following screen will appear.



Add

• Click [Add] to appear following screen.

😚 mobiledlg		⊠ #	Ÿ_× €	ok
Site Name	IP Addr	ess/Do	main N	ame
•				•
Connect Ex	it	Add	Edit [Del
Ok				
UK				

- Fill in correct information.
 - Site Name : Insert the name of site.
 - IP/Domain : Insert the IP address or Domain name of the site. _
- ID : Input the registered ID of the site. _
- _ Password : Input the password of the registered ID.
- Command Port : Insert Command Port of the site. _
- : Insert Stream Port of the site. Stream Port
- Click [Save] then following screen will appear with registered site.

nobiledlg	🗹 🗱 🎝 🕂 🔤
Site Name	IP Address/Domain Name
office	192.168.10.135
Connect Ex	it Add Edit Del
Ok	

Edit

• Select a site and click [Edit] then following screen will appear.

矝 mobiledlg	⊠ # 7 _× 4€ ok		
Site Name	office		
IP/Domain	192.168.10.135		
ID	admin		
Password	****		
Command Port	5920		
Stream Port	5921		
Sav	e Cancel		

• Correct items then click [Save].

Delete

- Select a site and click [Del].
- Confirmation message will pop up.

🔗 mobiledlg	⊠ # 7 _× €
Site Name	IP Address/Domain Name
office	192.168.10.135
MobileCM	S
? Ar	e you sure to delete?
Y	es No
•	
Connect Ex	it Add Edit Del
Ok	

• Click [Yes] then the site information will be removed.

14.4 Connect

• Select a site then click [Connect].

🎊 mobiledlg	⊠ # Ÿx ◀€ ok
Site Name	IP Address/Domain Name
office	192.168.10.135
4	
Connect Ex	it Add Edit Del
Ok	

- Live display screen of the site will appear if it is successfully connected.
- Users are able to select a camera by clicking camera button.
- Click [Disconnect] then, live display screen will be closed and Site list box will appear.

14.5 Uninstall

- Move to [Program Menu> System] then click [Remove Programs].
 The currently installed list will show up.

😚 Settings 🛛 🐼 🎝 😽 💀	
Remove Programs	
Programs in storage memory:	
. MabileCMS	
Remove	
Total storage memory available: 27842K	

• Choose Mobile CMS on the list and click [Remove].

😚 Settings 🛛 📰 🏹 📢	-		
Remove Programs			
P Remove Program			
The selected program will be permanently removed. You may reload it from your desktop computer. Are you sure you want to remove it? Yes No			
Remove			
Total storage memory available: 27842K			

- Confirmation message will pop up
 Click [Yes] to complete uninstall then program will be removed.