DIGITAL VIDEO RECORDER

USER MANUAL

4/8/16CH DVR

For safe use of system and to prevent product failure or accident, please read this manual carefully before use.

Ver : HL.R1.00.ENG_1.3

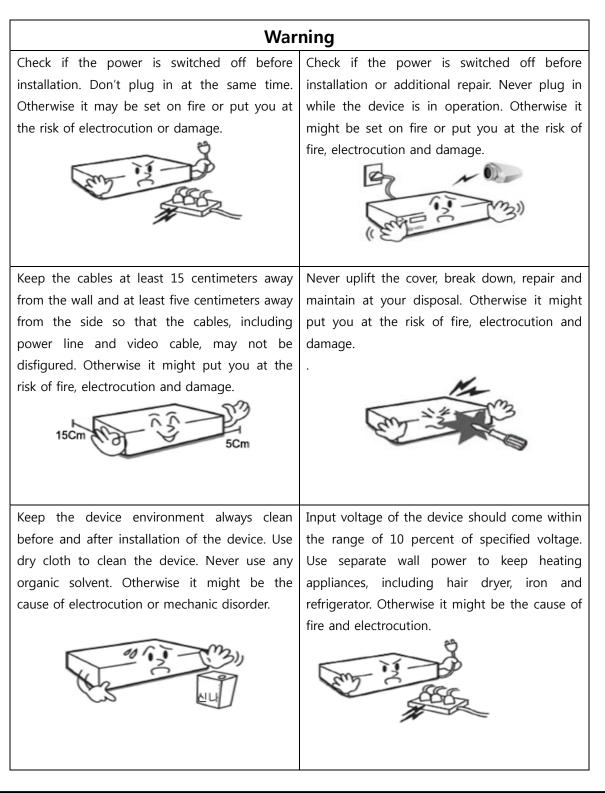
Before Usage

This product has been designed and manufactured to assure personal safety. Improper use can result in electronic shock or fire hazard. The safeguards incorporated in this product will protect you if you observe the following procedures for installation, use, and servicing. This product does not contain any parts that can be repaired by user.

[Note]

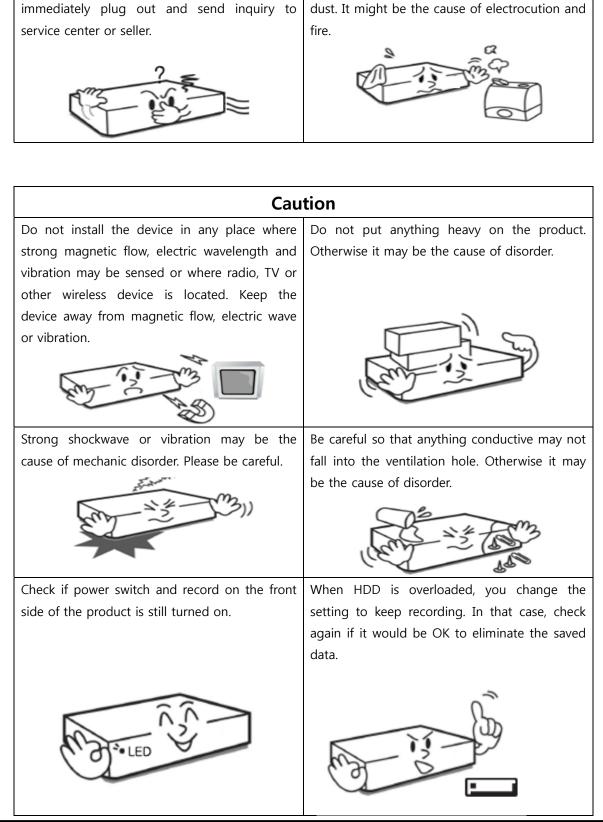
Some contents of this manual can be different due to function improvement. Photos for instruction can be different per channel.

Note of Caution



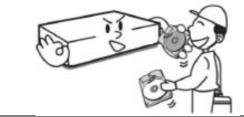
Do not install device in humid place filled with

When strange noise or smell is sensed,

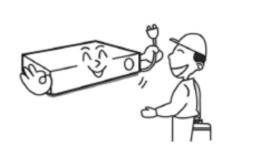


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When HDD saving data gets old enough, video data to be saved may suffer so much damage that it may be irreparable. If screen appears broken while regenerating data saved in HDD, it means HDD won't work any longer. Immediately contact service center to replace them.



When any abnormal sign is detected, immediately contact seller or service center.



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1 — Summary

Feature

This Stand Alone Digital Video Recorder is capable of high quality of video and audio data recording and provides various ways of data search by Calendar, Date/Time and event. Also the system allows remote user to access in order to monitor and control multiple local DVRs via TCP/IP / LAN connection.

Main features

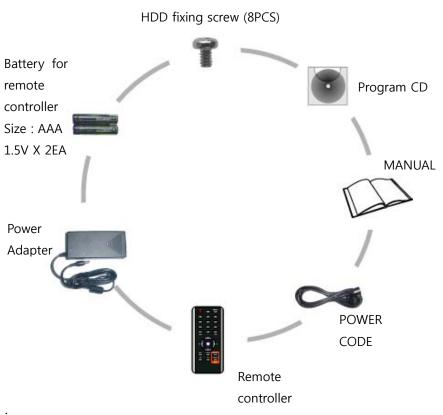
- (1) High resolution live display
- (2) Easy installation and operation
- (3) Motion detection record
- (4) Sensor and Alarm outputs
- (5) Reserved recording (Motion, Sensor/Alarm and time selected record)
- (6) Network control via Dynamic IP
- (7) NTSC / PAL compatible
- (8) Highest data compression of H.264 technology
- (9) Data backup to USB memory stick

Application

- (1) Bank, ATM unit, Supermarket, Convenient store and other public places.
- (2) Private homes, Apartment, Jewelry shop, Commercial compound and other places where it needs anti theft surveillance system.
- (3) Warehouse, Production line and other places where evidence is needed after any event happened and to analyze the situation.
- (4) Where to monitor sites remotely

2 — Installation

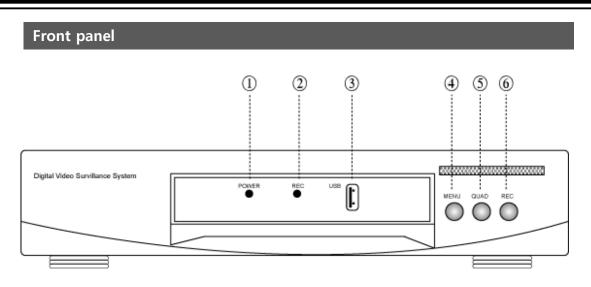
Contents



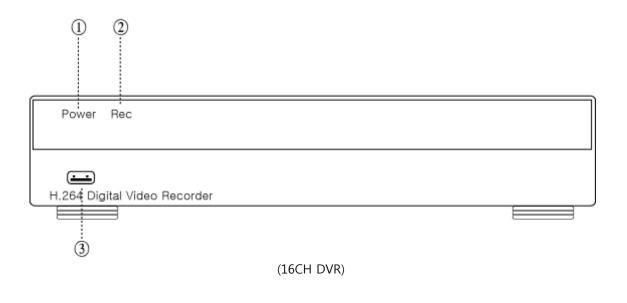
Accessories.

- Digital Video Recorder (1EA)
- HDD Fixing screw (8pcs)
- Program CD (1EA)
- Manual (1EA)
- Power code (1EA)
- Remote controller)
- Battery AAA (1.5V 2EA)
- Adaptor (1EA)

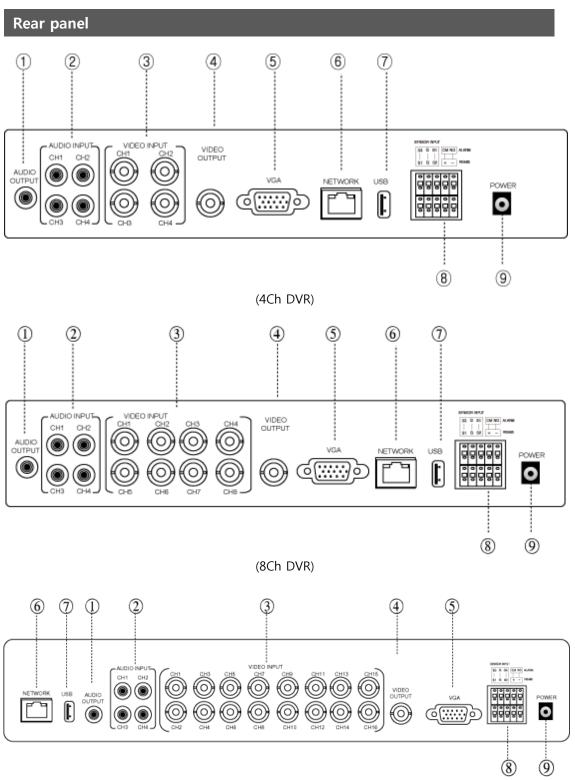
[Note] Check the accessories before use.



(4Ch / 8CH DVR)



[1] POWER LED[2] RECORD LED[3] USB Port[4] MENU Button[5] QUAD Button[6] REC Button (Emergency / Schedule)



(16Ch DVR)

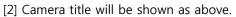
- [1] AUDIO OUTPUT
- [2] AUDIO INPUT
- [3] VIDEO INPUT
- [4] VIDEO OUTPUT (COMPOSITE)
- [5] VGA OUTPUT
- [6] ETHERNET PORT (RJ-45)
- [7] USB PORT (USB Drive / Mouse)
- [8] RS-485/ALARM/SENSOR
- [9] POWER (ADAPTER)

3 — System Operation

Icon

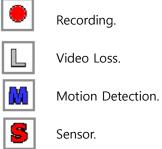
[1] The icons on the live screen indicate the status.





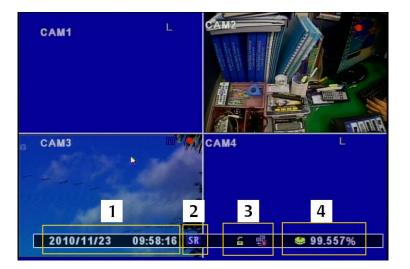


[3] Recording Status Icon



Video Loss.

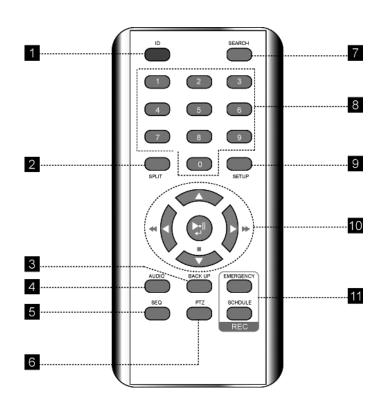
Sensor.



[4] Status Bar

- 1. Date / Time
- 2. Record mode : Emergency recording "ER", Scheduled recording "SR".
- 3. Key Lock / Network Connectivity status.
- 4. Hard Disk status.

Remote Controller



- [1] ID (Remote controller ID) : Press to select a remote controller ID in case of using one remote controller to multi DVRs.
- [2] SPLIT : Press to see split mode. Once press "▲" button, split mode can be changed and press "▶" button to change channel group.
- [3] BACKUP : Press to start recorded data archiving to external media.

[4] AUDIO : Select a audio channel.

[5] SEQ (Sequence) : Press to display each camera in sequence for specific duration.

- [6] PTZ : Call PTZ control menu.
- [7] SEARCH : Call search menu to playback recording image.
- [8] CHANNEL / NUMERIC BUTTON : Input the channel number to make full screen mode or the number in setup menu.
- [9] SETUP : Press to call setup menu
- [10] DIRECTION KEY / CONFIRM BUTTON / PLAYBACK CONTROL
- [11] REC : Select recording mode.

How to setup the remote controller ID

In order to use remote controller, the ID must be same both DVR and remote controller. By assigning DVR ID, it allows the user to control multiple DVRs with one remote controller.

System) 🧕 📫 🙏			
Information				
Remote ID	(O)			
Mouse Resolution	1			
Language	English			
Version	-			
Health				
Video Detect Mode	NTSC			
Vides Mode	NTSC			
Web Code	L4F7014400000068			
Mac Address	00:18:7b:f7:01:44			

[1] Check current system ID and can be changed by user. (Factory default ID: "0")
 Menu > System > Information > Remote ID (Range: 0 ~ 99)
 System ID must be configured on DVR system menu. It cannot change DVR system on remote controller.

[2] How to use remote controller

ID must be identified between remote controller and system. Otherwise remote controller cannot recognize DVR correctly.



- [3] Remote controller ID menu displays as above image when you click ID button of remote controller.
 - · Remote ID : It displays current ID of the system.
 - \cdot "00" : Input the same ID number of DVR and press "Confirm"

4 — System configuration



- Remote ID : Assign the ID of remote controller, so that user can separately control multiple DVR unit with one controller. (ID range: 0 ~ 99)
- [2] Mouse Resolution : Mouse sensitivity level can be adjusted at user's convenience.(Basic Level 1; Slow speed, Level 1 < Level 2 < Level 3 to increase reaction speed.)

- [3] Language : Select a language
- [4] Version : To show H/W Version and S/W Version
- [5] Health: Indicates storage status
 - HardDisk1 : Temperature of HDD.
 - Front USB : Temperature of external storage with front USB port.
 - Rear USB : Temperature of external storage with rear USB port.
- [6] Video Detect Mode : Select a video signal format. (NTSC / PAL)
- [7] Video Mode : Display video signal format
- [8] WEB Code : DDNS ID for DDNS connection.
- [9] MAC Address

Time/Date

🍎 💻 (m)	Q 📑 🙏
Time/Date	
Time	00:30:50
Date	2011/02/25
Date Format	YYYY-MM-DD
Daylight Saving Time	Off
Time Server	
Apply	

- [1] Time : Set the time.
- [2] Date : Set the date.

- [3] Date Format : Select a Time / Date display format.
- [4] Daylight Saving Time : It is commonly called as "Summer time". During the period, user can change system time 1 hour early or late.
- [5] Time Server : It helps time set of DVR automatically by synchronization of time server service.
- Time server : Input the URL of server (Default : kr.pool.ntp.org)
- Synchronize Period : Select the period to syncronize between DVR and time server
 - Power On : Try to sync once power on.
 - o 12Hour : Try to sync every 12 hours.
 - o 24Hour : Try to sync every 24 hours.
 - Off : Disable to sync.

[6] Time Zone : Select a GMT zone.

[7] Apply : Save and apply time / date setting.



(Channel display could be different per model 4ch/8ch/16ch)

- [1] ID : ID : Able to input max. 8 user's account. ("Admin" and "User1~7")
- [2] Password : Input the new P/W for the selected ID. (Max. 8 digit)

[Note] Default password of all ID is "11111111".

- [3] Function : Assign user's function on each account.
 - o Configuration
 - o HardDisk
 - o Search
 - o Backup
 - o PTZ Setting
 - Record Key
 - o Camera

Hard Disk

It is the HDD and ODD setup. Since it is closely related to the record, if the setup is wrong, it may cause the mal functioning.

System	((m))	۲	00	Â
Hard Disk				
Hard Disk List				
Total		44908M	B/237620N	18
Over write			On	
Erase Data		Ma	in Disk	
Auto Delete			Off	
Advanced				

- [1] Hard Disk List : It shows the HDD information
 - o Hard Disk1 : Capacity of hard disk drive
 - o Front USB : Capacity of external drive on front USB port.
 - Rear USB : Capacity of external drive on rear USB port.
 - Erase Data : Format the disk.
- [2] Total : Display total capacity of HDD (Used size / Available size)
- [3] Erase Data : Delete a recording date on selected disk.
- [4] Auto delete : The function is to keep recorded data in HDD during only for specified period. (Range: 1~120days)
- [5] Advanced : Select a purpose of each device among "Main Disk", "Mirror Disk", "RW Write" then "Apply" to reboot system.

[NOTE] "Mirro Disk" or "RW Writer" purpose is able to setup when the external device is connected with DVR via USB port.

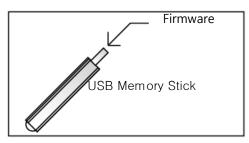


- [1] Default Setup : Except major configuration (Network, Password), parameters are initialized.
- [2] Factory Setup : All parameters are initialized.

Upgrade					
System Jose Upgrade US8		((₇))	٢	<u></u>	<u>^</u>
	ration BA ration LO				

[1] USB

In order to upgrade system firmware with USB memory stick, the firmware file must be saved in the USB storage first and then insert to DVR to start USB upgrade from the menu.



[NOTE] Do not turn off power or remove USB stick while the upgrade is in progress.

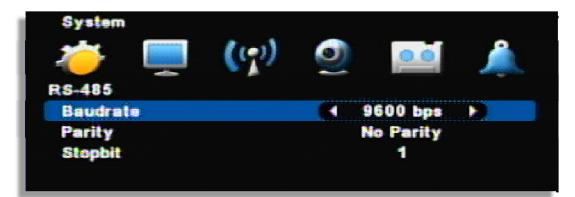
- [2] Configuration Backup : Save a configuration file of DVR.
- [3] Configuration Load : Upload a configuration file to DVR.



- Auto key lock : There is no key input during specific time, system locks the button automatically. In order to unlock, input the password. (10 sec. 30 sec. 1 min. OFF)
- Key Beep : If you select ON, beep sound occurs

RS-485

In order to control the PTZ camera or control keyboard, DVR supports RS-485 port.



✓ Baudrate /Parity /Stopbit : For using RS-485 port, refer to the manual of "Keyboard" or "PTZ camera".

5 — DISPLAY



- [1] Camera Title : ON / OFF
- [2] Status Bar : ON / OFF.
- [3] Multi screen Border : ON / OFF
- [4] Login Display : Select a login option
 - As Per Last Login : Display live image after system rebooting.
 - Cover All Camera : Do not display live image after system rebooting.
- [5] Log in menu : Select a log in option.
 - Always from boot : Input the password after rebooting.
 - Boot after lock : Auto login after rebooting.
- [6] Alphablending : Select the transparency level of menu background.

SPLIT MODE

Channel can be switched into another by selecting split mode or a channel. Channel display can be different per each model



Displayed in 4/8/16ch

Dispi			((₁))	٢	0		Â
plit N Aspe		atio		(6-S	plit	Þ
		2		8		3	14
		3	11	9		3	15
4	5	6	10 11	12	16	Ż	3
Grou	p1		Group2		Grou	ip3	

Displayed in 8/16

9 Split]						
Display						
100		(17)	۲	0.0	Â
Split Mode	*			~		
Aspect Ra	itio				9-Split	
	_	_		_		
1 2	3	10	11	12		
4 5	6	13	14	15		
7 8	9	16	1	2		
Group 1		Grou	p2			

Displayed in 8/16ch

.

2		ay			(17))		2	0.0	
Spli A:	t N spo	lode act	e Rati	io			(4	13-Split	Þ
Ē	2	3	4	5	15	16	1	2		
•	3			7	3			4		
1	1			9	5		4	6		
1	0	11	12	13	7	8	9	10		
G	OU	p1			Gro	up2				

Displayed in 16ch



Displayed in 16

[Note] Various split screen switch

If you press UP direction key in live mode, the split mode is changed. And if you press the RIGHT direction key, the split group is changed. (There is 1ch full screen and 4 split in 4ch DVR.)

Auto Sequence

*	📒 (m)	0	00	Ĵ
Luto Sequ	ence			
Auto Los	a Skip		Off	Þ
Display T	ime	C	H1 - CH16	
CH1	3 sec	CHI2	3 sec	
CHB	3 sec	CH4	3 sec	
CH5	3 sec	CH6	3 sec	
CH7	3 sec	CH8	3 sec	
CH9	3 sec	CH10	3 sec	
CH11	3 sec	CH12	3 sec	
CH13	3 580	CH14	3 sec	
CH15	3 sec	CH16	3 sec	-

- Auto Loss Skip : If there is no video input, it skip video loss channel.
- Display time : Select a display duration while sequencing (1 sec. ~30 sec.)



[1] Monitor : Output is fixed with 4:3 ratio.

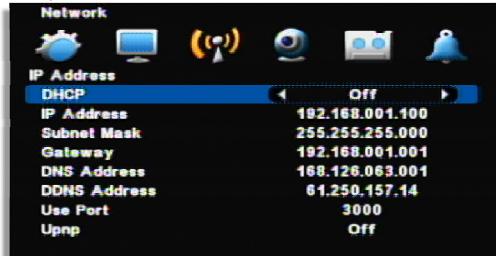
[2] Icon : Change the icon position.

- Small : When using small monitor.
- NORMAL : When using normal monitor
- VGA : When using the monitor for VGA

6 — NETWORK SETUP

IP Address

It is the system setup for remote monitoring or backup and it needs the network setup of DVR. The user must know whether their internet is dynamic IP(DHCP) or fixed IP. Please check it to your ISP before setup.



[1] DHCP : "ON" for dynamic IP user. "OFF" for static IP user.

[2] IP Address : Input the IP address.

[Example]

- IP address : 61.250.152.050
- Subnet Mask : 255.255.255.000
- Gateway : 61.250.152.001
- DNS Address : 164.124.101.002

[3] DDNS Address : Do not change the DDNS server IP (61.250.157.14)

[4] Use Port : Default port is 3000.

[5] Upnp : If a router supports Upnp, it automatically set port forwarding.

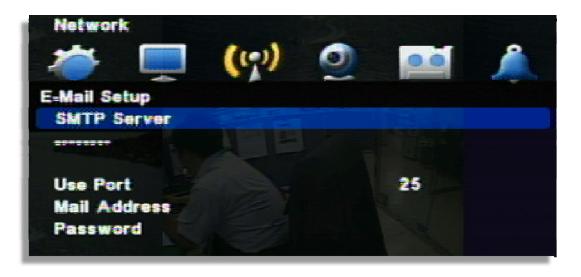
[NOTE] In case of using the router, the user should make port forwarding. The port forwarding function is described on the router manual.

Notification

When an event is triggered, it is notified to the user.

E-Mail Setup

It's a basic setup to send E-mail, so if it is not correct, e-mail couldn't be delivered. So be careful to make Setup correctly.



[1] SMTP SERVER : Designating the mail server sending a mail. Input the mail server address a user uses.

[2] Use Port : Mostly 25 is used to a mail server. Check the port when it doesn't work after Setup.

[3] Mail Address : Input the e-mail address of receipts (Available up to max 3 people)

[4] Password : When sending an e-mail in case ID & password input are necessary, set the ID & password.

Selecting E-mail Notification

Select which type of notifications you are going to use.

Network	((₁))	0		Â
Alarm			Off	
Sensor			Off	
Metion Detection			Off	
Video Loss			Off	
Power On			Off	
Password Modify			Off	
HDD ERROR			Off	

Notification type : You can select the type for E-mail notification.

- Alarm : E-mail is sent with still image when an alarm occurs
- Sensor : E-mail is sent with still image when triggering a sensor
- Motion Detection : E-mail is sent with still image when detecting a motion.
- Video Loss : E-mail is sent when video input is lost.
- Power On : E-mail is sent when power is on after off.
- Password Modify : E-mail is sent when the system password is modified
- HDD Error : E-mail is sent when HDD error happens

Web Server

Built-in web server make user can connect the DVR remotely on the Internet Explorer.



[1] ON/OFF : Select 'ON' to use remote N/W connection through web.

[2] USE PORT : Port for remote connection.

[Example]

In case of using IP 61.250.157.50 and Port 2001, type <u>http://61.250.157.50:2001</u> on the address input of browser.

Free DDNS

Free DDNS is used for remote connection through private DDNS service.

Firstly, go to <u>http://www.dyndns.com</u> and create an account. Then, if your system is installed with a router, you must make DMZ setting in the router setup for the IP your system has. DMZ is a function to open all the ports for the selected IP.

For example, here is the way how to create an account with the name of hongkildong.



[1] For creating an account, visit the website: http://www.dyndns.com

[2] After creating sub domain name(example:dvr-sample), select the main domain name using with free. A user can select any domain name convenient to oneself. Then, click the "ADD" button.

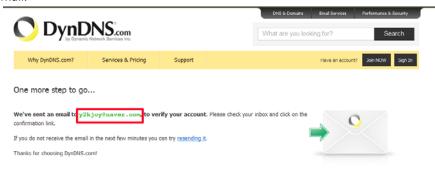


[3] Then, input the detailed user information. After filling in user name, password and email address, etc., then click "Create Account" button. For e-mail verification, receivable email address is required.

Create account or log in to continue checkout:

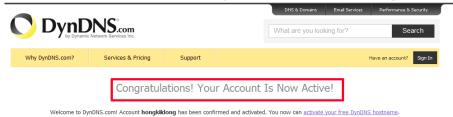
Username	hongkildong	Already Registered?
Password	•••••	Username
Confirm password	•••••	Password
Email	y2kjoy@naver.com	Log in
Confirm Email	y2kjoy@naver.com	Forgot your password?
Security Image	There the numbers from the above image:	
Subscribe to	 DynDNS.com newsletter (1 or 2 per month) Dyn Inc. press releases 	
	eed with the acceptable use policy (AUP) and privac eemant to the AUP is required before we can create ant	bunt.

[4] When you see that the e-mail has been sent to you for verification, then check the e-mail.



[5] After opening the verification e-mail, if you click the linked part, the verification is proceeded automatically.

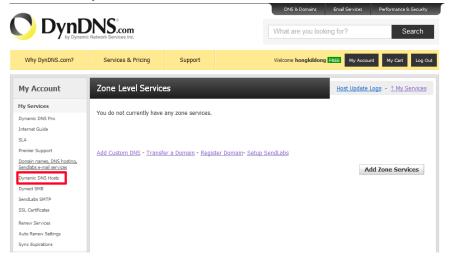
Your DynDNS.com Account 'hongkildong' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process: https://www.dyndns.com/confirm/create/7rlxBDm8xrjmarhmoJrJJA Our basic service offerings are free, but they are supported by our paid services. See http://www.dyndns.com/services/ for a full listing of all of our available services. If you did not sign up for this account, this will be the only communication you will receive. All non-confirmed accounts are automatically deleted after 48 hours, and no addresses are kept on file. We apologize for any inconvenience this correspondence may have caused, and we assure you that it was only sent at the request of someone visiting our site requesting an account. Sincerely, The DynDNS.com Team Dynamic Network Services Inc. [6] If the e-mail verification is completed, you are entered into following website.



[7] After log-in, click "My Zones/Domains" in "My Service" menu

DynD	NS.com	What are yo	u looking for? Search
Why DynDNS.com?	Services & Pricing Support	Welcome hong	tildong FREE My Services My Cert Log Ou
My Account	My Services	Billing	Account Settings
My Services Account Settings	View, modify, purchase, and delete your services.	Update your billing information, complete a purchase, and view	Update your email address, set preferences, and delete your account.
Billing	My Zones/Domains	invoices.	Change Email Address
A My Cart	Add Zone/Domain Services	View Shopping Cart	Change Password
Liten	My Hosts	Active Services	Change Username
	Add Host Services	Order History	Contact Manager
	Dynamic DNS Pro	Billing Profile and Vouchers	Mailing Lists
WE'RE HIRING	Dynect SMB	Renew Services	Move Services
	Internet Guide	Auto Renew Settings	Preferences
rowered by 🜔 Dyn	SendLabs SMTP	Sync Expirations	Close Account
	SSL Certificates		
	Support		
	Premier Support		
	Contact Support		
	DNS Service Level Agreement		

[8] Then, click "Dynamic DNS Hosts" in the menu on the left.



[9] Click the firstly registered domain(dvr-sample.dyndns-ip.com)

	Network Services Inc.			Domains E	imail Services	Performance & Security Search
Why DynDNS.com?	Services & Pricing	Support	Welcome he	ongkildong FR	E My Accou	nt My Cart Log Out
My Account	Host Services					<u>↑ My Services</u>
My Services				_		
Dynamic DNS Pro	Hostname		<u>vice Details</u>			t Updated
Internet Guide	dvr-sample.dyndns-ip.com	Host	Checkout to Active	ate M	ay. 03, 2011	2:55 AM
SLA	» Host Update Logs					Add New Host
Premier Support					1	
Domain names, DNS hosting, Sendlabs e-mail services						
Dynamic DNS Hosts						

[10] Input the public IP of installed router for IP Address. You can find the public IP of the router when you check the router setup. When you complete the input, click "Save Changes".

Hostname:	dvr-sample.dyndns-ip.com
Wildcard: only for DynDNS Pro users	create "*.dvr-sample.dyndns-ip.com" alias (for example to use same settings for www.dvr- sample.dyndns-ip.com)
Service Type:	Host with IP address WebHop Redirect (URL forwarding service) Offline Hostname
IP Address:	115.95.186.197 Your current location's IP address is 115.95.186.197
	IPv6 Address (optional):
	TTL value is 60 seconds. Edit TTL
Mail Routing:	☐ I have mail server with another name and would like to add MX hostname
Delete dvr-sample.dyndns-ip.co	Save Changes

[11] To activate the registered domain, click "Checkout to Activate."

	DNS.com		DNS & Domain What are you		Performance & Security Search
Why DynDNS.com?	Services & Pricing	Support	Welcome hongkil	dong FREE My Accor	nt My Cart Log O
My Account	Host Services				T My Services
My Services Dynamic DNS Pro Internet Guide	Hostname dvr-sample.dyndns-ip.com	Serv Host	ice Details Checkout to Activate	Las May. 03, 2011	t Updated 2:55 AM
SLA Premier Support Domain names, DNS hosting, Sendlahs e-mail services	<u>» Host Update Logs</u>			_	Add New Host
Dynamic DNS Hosts					

[12] Then, click "Proceed to checkout" button below.

Øpgrade Options		
Free accounts allow only two Dynamic DNS hosts. • to add more and enjoy additional benefits for only \$15.00 per year, <u>purchas</u> • to get Dynamic DNS for your own domain , use <u>Custom DNS</u> .	e Dynamic DNS Pro d	ð
Dynamic DNS Hosts		
dvr-sample.dyndns-ip.com	remove	\$0.00
	Order Total	: \$0.00
	Proce	ed to checkout •

[13] And click "Activate Services" below.

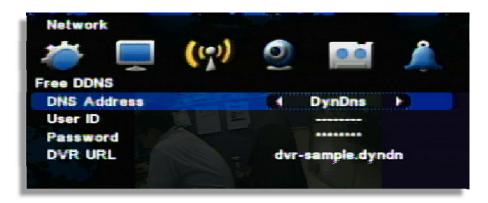
Once you have confirmed the contents of your cart your services will be instantly activated.

	\$0.00
	\$0.00
Sub-Total:	\$0.00
	Sub-Total:

[14] Then, selected domain IP is activated.

dvr-sample.dyndns-ip.com			
dvi sumple.dynuns ip.com	Host	115.95.186.197	May. 03, 2011 3:41 AM
» Host Update Logs			Add New Host

[15] Input registered information in DVR setup.



• DDNS address : Select the private DNS service name (Select DyDns)

• User name/ Password/ DVR Address : After creating an account in the relevant website, input the ID/ Password/ URL information allocated to DVR setup.

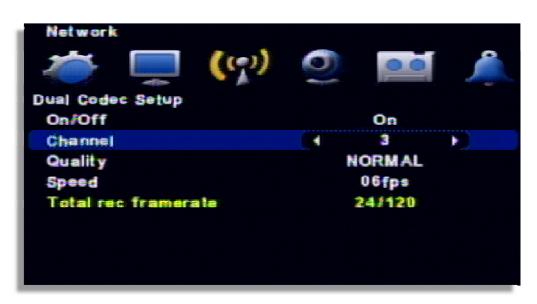
[16] If you input the registered domain in URL address of web browser, then the connection is made.



Note : After making new account, the relevant service would be available after $10 \sim 30$ minutes

Dual Codec Setup

It is a transmitting function through the extra network transmitting Codec.



- On/ Off : If you want to use it, set ON.
- Channel : Select the channel to set (Available to set per channel)
- Quality : Select the picture quality to transmit
- Speed : Select the frame to transmit
- Total Rec Framerate : Available to allocate per channel within 120FPS (total transmitting speed)

7 — Camera Setup

era				
Camera				
🦈 💻	(γ)	2	00	
Camera Setting				
Channel			3	
On/Off			On	
Brightness			50 %	
Contrast			50 %	
Saturation			50 %	
Hue			50 %	

- Channel : Select the channel to set
- On/Off : Select whether you use the channel or not
- Brightness / Contrast / Saturation / Hue : Adjust the image of the selected (Default : 50%)

Camera Title

Input a camera title



Multi-language keyboard is supported

PTZ Setting

Camera	(m)	0	00	Â
PTZ Setting Channel			4	
On/Off			On	
Model			NK-97CHE	
ID			0	
Advanced				

- [1] Channel: Select a channel
- [2] ON/OFF : Enable or disable to use PTZ.
- [3] MODEL : Select the PTZ protocol or, model
- [4] ID : Select the PTZ ID. (For more detail, refer to the manual of PTZ device.)

Camera Merced Advanced Reverse Control (Pan) Reverse Control (Tilt) Touring Mode Tour Tour

- [1] Reverse Control (Pan) : Set the Pan works reverse direction.
- [2] Reverse Control (Tilt) : Set the Tilt works reverse direction.
- [3] Touring Mode

Advanced

• Preset Touring : Use touring by DVR setting.

• Camera Touring : Use touring by camera setting. (PTZ camera built-in touring function is available only.)

[4] Setup Preset Touring

It is operable when you select the 'preset touring' from the touring mode' menu.



The touring number is selectable 1~16.

- [1] Touring number : Select the number.
- [2] Preset number : Select the preset number saved before.
- [3] Touring interval (/SEC) : Select the touring dwell time.

[NOTE] PTZ protocol selection

Protocol is PTZ moving driver. The protocol is registered as per the camera model name or protocol name. Please check whether you PTZ is usable for this DVR. The touring is supporting when the camera itself support the touring function.

How to use PAN/TILT

How to call the PTZ menu recall

- Mouse menu: Click the right button of mouse and select the 'PTZ'.
- Remote controller menu: Click the "PTZ" from remote controller.
- (1) Select PTZ Button on the remote controller

43 8					
			¥.		
	2011/02/12	21:50:30	6 5	₽ 98,619%	

- When you select PTZ button, + shape icon appear. Then move to the channel you want by the direction key.
- (2) If you moved to PTZ channel, then after pushing "SET UP" button, select the menu to operate.

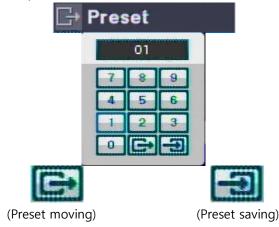


[PTZ control menu]

o PanTilt : Control the direction by the direction key in remote controller.



• PRESET = Input the preset number to be moved or saved and select this menu.



- Tour : It tours as per the saved preset number.
- MENU : It can recalls the PTZ camera OSD menu



Tour

Channel: It is for changing the PTZ channel from the multi channel viewing. Once you select the 'CHANNEL' menu, select the channel to apply the PTZ by moving the direction key and, if you click the CHANNEL again, the PTZ applied channel selection is completed(It applies only on multi split channel)



• Exit : Escaping the PTZ mode



8 — Record

Record setup

The record setup can be made as per the different channel such as different record frame and resolution etc.

Since the file size is different from the record setup, you have to be careful when you make setup.

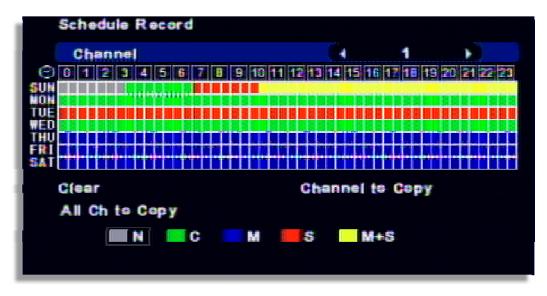


(Channel display could be different per model 4ch/8ch/16ch)

- [1] Channel : It selects the channel.
- [2] ON/OFF : It selects the RECORD ON/OFF of each channel.
- [3] Resolution : It selects the resolution selection.
- [4] Quality : It selects the record picture quality. (HIGHEST > HIGH > NORMAL > LOW > LOWEST)
- [5] Speed : It selects the record frame.
- [6] Post-Recording : It selects how long will be the record made after the event happen.
- [7] Audio Out : It selects the audio out ON/OFF.
- [8] Total Frame rate : It shows the sum of record frame on each channel

Schedule Record

For schedule recording, it can be setup as per the day/date/time and channel. The record schedule can be setup by an hour.



N : No record

- C : Continuous record
- M : Motion detected record
- S : Sensor triigered record
- M+S : Motion or sensor record

[How to setup]

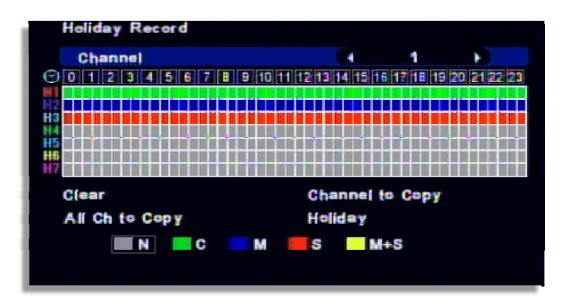
- Select the channel.
- Once you select the day and time, whenever press "Confirm" button, event color is changed in this order. (N-> C -. M -> S -> M+S)
- After select the other date or time and press "Confirm", event color changes.
- Clear : It clears the current date setup.
- Channel copy: Copy the current record setup to the selected channel. (Escape it by pressing "SETUP" button)
- All channel copy : It copies the current record schedule to all channel.

Holiday Record

Different record can be applied as per different holiday.

[1] 7 different holiday setup can be made.

After selecting the recording type from H1 \sim H7, set by mouse dragging or direction key of remote controller



[2] Select the Holiday from the menu and select the holiday type from H1~H7.

	201	1		02			
SUN	MON	TUE	WED	THU	FRI	SAT	
		1	2	3	4	5	
Ċ.	7	8	9	10	11	12	
13	14	15	16	17	18	19	
20	21	22	23	24	25	26	
27	28						

Once you click the date, every times you click, the holiday color will be changed, which means the different record setup.

9 — Event Setup

Sensor

It is for sensor setup.

Event) 🧕	00	Â
Sensor Sensor Input	6	1	
On/Off		On	
Input Type		N/Open	
Related Camera	1 2	3 4 5 6 1	7 8
	9 18 1	1 12 13 14 1	516

(Channel display could be different per model 4ch/8ch/16ch)

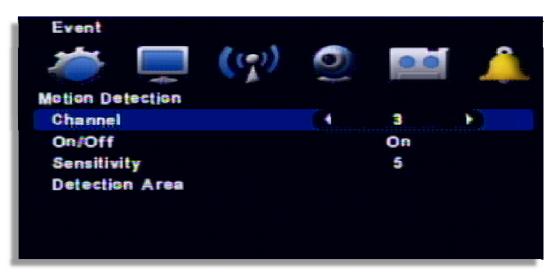
- [1] Sensor Input : Select the sensor input channel.
- [2] On/Off : Select the sensor usage.

[3] Input Type: Select the sensor input type.

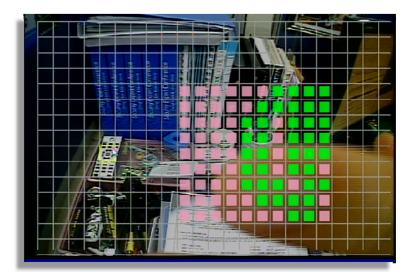
- N/Open (NORMAL OPEN) : The contact is normally opened but closed when the signal is generated.
- N/Close (NORMAL CLOSE) : The contact is normally closed but opend when the signal is generated.
- [4] Related camera: Select the camera to be related with sensor. Multi-selection is possible.

Motion Detection

It is the motion detection setup menu.



- ▷ Channel : Select the motion detection channel.
- \triangleright On/Off : Select the motion detection usage.
- > Sensitivity : Select the sensitivity of motion detection. Please apply it after the actual testing.
- $\,\triangleright\,$ Detection Area: Select the motion detection area. (1~5)



The cursor moving by the direction key and if press "enter", this block is designated for motion detection.

- MD selected area : Pink color
- MD non-selected area : Transparent
- If the movement is detected, the color of that area turns green.

[Apply to all] If you use the following key, you can apply or release in one button

"No1" button: Release all "No 2" button: Select all.

[Using mouse]

Locate the pointer on start point and click the right button then dragging to the ending point.

CAMERA TEMPER DETECTION

If there is the extra ordinary bright or, dark, it recognize as an event.

If it turns bright by opening the door/window or if somebody painted the camera, it detects as an event.

(This function is operating by using the dual monitor and output is made through VGA)

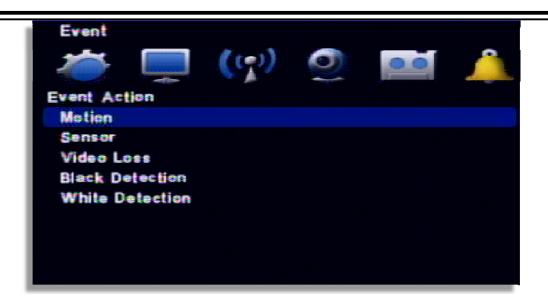


- [1] Channel : Select the channel to use.
- [2] White Detection : Detecting the brightening.
- [3] White Sensitivity : Detecting the sensitivity of brightening.
- [4] Black Detection : Detecting the darkness
- [5] Black Sensitivity : Detecting the sensitivity of darkness.

EVENT ACTION

Event record will be made as per the setup.

DIGITAL VIDEO RECORDER MANUAL



[1] Motion : It is the setup for PTZ, pop-up, relay out, buzzer in motion detection

- Channel : Select the channel to apply.
- Preset channel : Select the preset camera being applied for the event.
- Preset number : Select the preset number to move.
- Popup Channel : Select the usage Popup usage by ON/OFF.
- Popup Duration : Popup window floating time.
- Relay out : Select the alarm out
- Relay duration : Relay out duration.
- Internal buzzer : Internal buzzer usage.

[2] Sensor : It is the setup for PTZ, pop-up, relay out, buzzer in sensor triggering.

- Channel : Select the channel to apply.
- Preset channel : Select the preset camera being applied for the event.
- Preset number : Select the preset number to move.
- Popup Channel : Select the usage Popup usage by ON/OFF.
- Popup Duration : Popup window floating time.
- Relay out : Select the alarm out
- Relay duration : Relay out duration.
- Internal buzzer : Internal buzzer usage.

[3] Video loss : It is the setup for PTZ, pop-up, relay out, buzzer in video loss.

- Channel : Select the channel to apply.
- Preset channel : Select the preset camera being applied for the event.
- Preset number : Select the preset number to move.
- Popup Channel : Select the usage Popup usage by ON/OFF.
- Popup Duration : Popup window floating time.
- Relay out : Select the alarm out
- Relay duration : Relay out duration.
- Internal buzzer : Internal buzzer usage.

[4] Black Detection : It is the setup for PTZ, pop-up, relay out, buzzer in Black Detection evnt.

- Channel : Select the channel to apply.
- Preset channel : Select the preset camera being applied for the event.
- Preset number : Select the preset number to move.
- Popup Channel : Select the usage Popup usage by ON/OFF.
- Popup Duration : Popup window floating time.
- Relay out : Select the alarm out
- Relay duration : Relay out duration.
- Internal buzzer : Internal buzzer usage.

[5] white Detection : It is the setup for PTZ, pop-up, relay out, buzzer in white Detection event.

- Channel : Select the channel to apply.
- Preset channel : Select the preset camera being applied for the event.
- Preset number : Select the preset number to move.
- Popup Channel : Select the usage Popup usage by ON/OFF.
- Popup Duration : Popup window floating time.
- Relay out : Select the alarm out
- Relay duration : Relay out duration.
- Internal buzzer : Internal buzzer usage.

10 — SEARCH

Search

It supports the various ways of search mode such as Calendar, Date/Time, Event, etc.

[1] How to call menu : Select the "SEARCH" from remote controller and right button of mouse.

[2] Search mode selection



- · Calendar search: It searches by calendar.
- · Date /Time search: It searches specific Date/Time.
- $\cdot\,$ Event search: It searches as per the event.
- \cdot Go to first : It searches the first recorded data on HDD.
- \cdot Go to last : It searches the last recorded data on HDD.

Calendar search

It searches using by the calendar.

[1] If there is the recorded data on DVR, it shows red color on recorded date. Using the direction key, you can change the YEAR/MONTH/DATE.

DIGITAL VIDEO RECORDER MANUAL

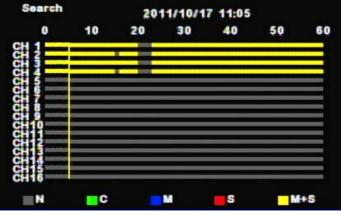
		n: 201	1-10-1	14 - R		
					Mai	in Disl
•	201	1			10	
SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

[2] If there is the recorded data, it shows red color so, press the enter button on selected date.

Searc	h			20	11/1	0/1	7 11	;00				
0	2	4	6	8	10	12	14	16	18	20	22	24
CH 1	_	_				-						
CH 3	_	_										
CH 5	_	_		_			_	_	_	_	_	
CH 7				_								
CH 9 CH10												
CH11		_					_	_	_	_	_	
CHI	=			_				_				
CHIE												

(Channel display could be different per model 4ch/8ch/16ch)

[3] The recorded data shows as a graph and select the minutes to search.



⁽Channel display could be different per model 4ch/8ch/16ch)

Date/Time search

If you know the specific date/ Time, input the time to search.

Record Begin Record End	2011/02/09 11:18:30
Kecola Ena	2011/02/25 02:10:37
Channel	
Play Begin	2011/02/09 11:18
Play	

- [1] Record begin : It shows the record began time.
- [2] Record end : It shows the record end time.
- [3] Channel : Select the channel to search.
- [4] Play Begin : Input the time to search.
- [5] Play : If you click "Play", it playback the selected time.

Event search

It searches event recorded data.



(Channel display could be different per model 4ch/8ch/16ch)

- [1] Select the disk to search
- [2] Day : Select the day to search.
- [3] Channel : Select the channel to search.
- [4] Event Type : Select the type of event(MD/Sensor/Video Loss / System/all).
- [5] Search : If you click "Search", it shows the event list and if you click, it playback the relevant image.

2011/02/25	02;12;13 Motion	'gt'
2011/02/25	02:12:05 Motion	'CAM2'
2011/02/25	02:12:05 Metion	'CAM4'
2011/02/25	02:12:03 Metion	'CAM4'
2011/02/25	02:12:03 Metion	'gt'
2011/02/25	02:12:02 Motion	'CAM2'
2011/02/25	02:11:44 Metjen	'gt'
2011/02/25	02:11:42 Metien	'gt'
2011/02/25	02:11:41 Metien	'gt'
2011/02/25	02:11:38 Metion	'gt'
4	1/183	8

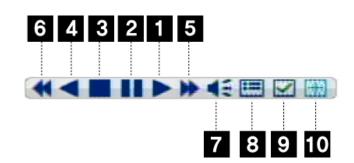
[6] If you select the event list from above, it shows playback.

Go to first / Go to last

It searches the first or last recorded image.

Search control

Description of search button



- [1] X1 playback
- [2] Pause
- [3] Stop
- [4] Reverse playback
- [5] Playback speed control
- [6] Reverse playback speed control
- [7] Audio during playback
- [8] Calendar search during playback
- [9] Mark In-Mark Out : If you click it during playback, it recognizes as a backup start time and if

you click it once again, it recognizes as a backup end time. After this, it moves to the backup menu automatically.

[10] Screen magnifying function in the full screen. (Use Emergency recording button on the remote controller.)

Audio

Audio can be listened in Live or Search.

1	Off	
\checkmark	CH1	
\checkmark	CH2	
	CH3	•
\checkmark	CH4	<i>u</i>
\sim	Auto	
	<u>0000</u>	
_		

[1] Menu recall : If you select the "AUDIO" during the live or playback, the audio out menu show up. The menu call is possible by remote controller or mouse.

[2] Mode selection

- OFF : No audio use.
- CH1 : Audio out only from CH1
- CH2 : Audio out only from CH2
- CH3 : Audio out only from CH3
- CH4 : Audio out only from CH4
- Auto : Only selected channel audio out.
- Volume control : If the length of bar increase, the volume louder.



11 — Backup

Backup

Selected image can be backup to the external device(USB). Connect the USB pen drive to the DVR and select 'BACKUP' button from remote controller or, click the right button of mouse.

[1] Select the recognized backup device. If it recognized normal, it shows the device capacity such as "XXX MB".

Media Check	
Front USB	
Memory Stick 843MB	
Rear USB	
None	
None	

[2] Select the date from Calendar.

Disk					Mai	n Disi	
	201	1		02			
SUN	MON	TUE	WED	THU	FRI	SAT	
		1	2	3	4	5	
6	7	8	9	10	11	12	
12	111	15	16	17	18	19	
20	21	22	23	24	25	26	
27	28						

[3] Select the time by double click.

Backup 0 2 4	2011/10/17 11:00 6 8 10 12 14 16 18 20 22 24
CH 1	0 0 10 12 14 10 10 20 22 24
H]	
CH 6	
EH 7	
čH j	
ČH12	
ČH I S	
CH16	
Camera	A 1 2 3 4 5 6 7 8 9 101112131411
Backup Start	

(Channel display could be different per model 4ch/8ch/16ch)

[4] Select the minute. Once you select "------", the time will be automatically input.

Backup 2 0 10 2	011/1 0	0/17 30	11:28 40	50	60
CH10 CH11 CH12					=
CH13 CH14 CH15 CH16					
Camera 2011/10/17 11:28 Backup Start	<u>a 1</u>		1567	0 9 10 11	1213141516

(Channel display could be different per model 4ch/8ch/16ch)

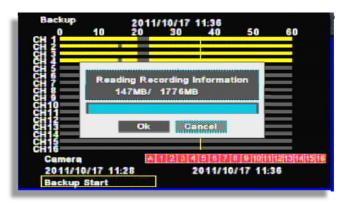
- [5] Backup end time selection
 - If the backup end time is the same hour, select the minute and click, "------", the time will be automatically input.
 - If the backup end time is the different hour, go back to the previous menu by right button of mouse or, "MENU" button. Then, select the hour/minutes and click "------" for automatic time input.

DIGITAL VIDEO RECORDER MANUAL

Backup	2011/	10/17 1	1:36		
0 10	20	30	40	50	80
CH 3					
CH 4					_
					_
CH 7					_
CH I					_
CH10					
CH11		_			_
2017		_			_
CH14					_
CH15	_	_			
CH16					rear rear la secto
Camera	IG [1	121914	007	1 3 1411	
2011/10/17 11:2	8	2	011/10	/17 11:	16
Backup Start					

(Channel display could be different per model 4ch/8ch/16ch)

- [6] Camera : Select the channel to be backup.(Selected channel will be shown as red)
- [7] Backup Start : If all setup is completed, click the 'Backup start' button then, backup starts. It shows the backup capacity/ USB pen drive capacity" so, if everything is OK, click 'OK'.



[8] Before backup, it shows the USB port, backup time then, select OPTION.

Device	Front US8
Record Begin	2011/10/14 20:33:45
Record End	2011/10/18 11:41:40
Backup Begin	2011/10/17 11:28:00
Backup End	2011/10/17 11:36:00
Log Backup	Off
Password	Off
Format Backup Disk	Video format
Backup Start	

- Log Backup : The log file will be backup together.
- Password : Backup data can be protected by the password.
- Format Backup Disk : Select whether the viewer program will be backup together with data file.
 - Executable format : Viewer program will b backup together
 - Video Format : Only data file will be backup without viewer program

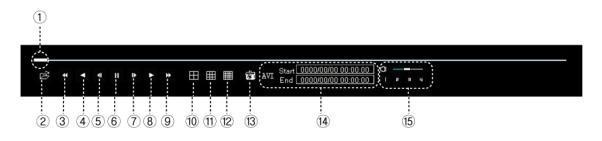
[9] Backup Start : The backup start after click 'OK'

evice	From	it USB
lecord Begin	2011/10/	14 20:33:45
lecord End	2011/10/	18 11:41:40
ackup		1:28:00
ackup Media	Writing	1:36:00
og Bac Remain:2min 1	1sec	
asswo		
ormat		hat
ackup Ok	Cancel	
ormat	Cancel	

[10] If the backup is completed, you will see the below icon as a file in USB stick. If you click it, playback starts.



[11] How to use the viewer program(If you click the backup file, it runs automatically).



DIGITAL VIDEO RECORDER MANUAL

- 1 Scroll bar : It shows the current location from the total playback volume.
- ② Open : To open the other backup file.
- ③ Fast reverse playback
- ④ Reverse playback
- (5) One step reverse playback
- 6 Pause
- O One step playback
- ⑧ Playback
- (9) Fast playback
- 10 4 split screen
- 1 9 split screen
- 10 split screen
- (13) Current image capture
- When you convert it to AVI. You can click the 'START' and 'END' time(circled space) during playback and if you click 'AVI', it converts to 'AVI' file.
- (5) If you click it, you can listen to the recorded audio of selected channel.

12 — Remote Connection-iPhone

12-1 Program Installation

Go to Apple Store website and search and download MPRMS. Then install the MPRMS.

12-2 Program Execution

When the installation is completed, the following icon is created.



Select the Icon and execute it.

12-3 Product Information Registration

Input network information in order to access the DVR a user has.

[1] New Registration

Execute the program on iPhone and click the new button for new registration.



[2] Input Reg Name



Any name is available to use for Reg Name.

[3] Model name selecting



If it is DVR you would use, select DVR.

[4] Log in

II. ollet	n ᅙ	12:32		75 % 🌫
Cance	N	ew DVI	R	Add
DVR	1			
Re	g Name : c	lemo		
	MODEL : [VR		>
	DVR ID :	Idmin		
PAS	SWORD :			
	DVR IP :			
DV	R PORT : 3	3000		
DDN	IS			
P	×		Q	?
View	Disconnect	List	search	Info

DVR ID : Input the user ID registered in the DVR Password : Input the password registered in the DVR (Note : You can check the user ID and password in the DVR Setup Menu)

[5] DVR IP input (Only for static IP user)

III olleh	\$	12:33		76 % 🎿
Cancel		demo	-	Save
PAS	SWORD : 0	•••••	•	
	DVR IP : (61.250.15	57.37	
DV	R PORT : ;	3000		
DDN	s			
DD	NS USE :			OFF
	DNS IP : (61.250.15	57.14	
DDN	S PORT : 2	2400		
C	DNS ID :			
Ģ	×		Q	?
View	Disconnect	List	search	Info

Dynamic IP user doesn't make DVR IP input. (Note) As for Static IP, input the IP address registered on DVR.

[6] DDNS IP Setup (Only for Dynamic IP user)

	olleh ᅙ	12:35		76 % 🎿	
6	Cancel	demo		Save	
	PASSWORD		•		
	DVR IF				
	DVR PORT	: 3000			
	DDNS				
	DDNS USE	:	ON		
	DDNS IF	: 61.250.15	7.14		
	DDNS PORT	: 2400			
	DDNS ID	: h6f605720	0001394		
	Uiew Discon		Q search	? Info	
St	atic IP u	ser sets i	t with	NO U	JSE
	DDNS U	SE :			OFF

Dynamic IP user sets it with USE



DDNS ID : Input the web code allocated to each DVR.

(Note : A user should keep their basic setting for DDNS IP and DDNS PORT.

[7] DDNS IP setup (Only for dynamic IP user)

olleh	?	12:35		76%
Cancel		demo	(Save
PASS	WORD : •	•••••	•	F
C	OVR IP :			
DVR	PORT: 3	000		
DDNS	;			
DDN	S USE :		ON	
D	ONS IP : 6	1.250.15	57.14	
DDNS	PORT : 24	400		
D	ONS ID : h	6f60572	00001394	4
P	×		Q	?
	Disconnect		search	Info

After completing all the inputs, push ADD button then the settings are saved.

12-4 Live Viewing

[1] Click the registered DVR name.

III olleh	<u> </u>	12:35		76 % 🏍
New		DVR		Delete
demo				۲
Ţ	\otimes		Q	?
View	Disconnect	List	search	Info

[2] Remote	connection
------------	------------



CH SELECT

For channel selection, click CH SELECT icon and select the number.



PTZ : Pan/Tilt/Zoom controlling



Remove Time, Resolution, channel info and etc. and display the video only.



It is a still image transmitting function. In case of video disconnection due to network load while transmitting, you'd better use this function.

Full screen view : If you turn iPhone on one side, it switches into full screen. (If you touch any part of the full screen, a menu is appeared.

12-5 Search

Select "Search" icon below.



[1] Select Date/Time

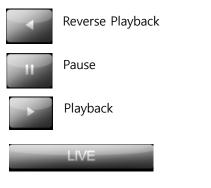


After selecting the date, click "Search" button.

[2] Search key operation



DIGITAL VIDEO RECORDER MANUAL



Return to Live



After clicking "CH SELECT" button, if you select a channel number, the channel is selected.

12-6 Relay out

Relay can be controlled remotely..





Time selection : Alarm output time selection. OFF : Alarm off Infinity : Unlimited alarm output

12-7 PTZ(Pan/Tilt/Zoom) Controlling

PTZ controlling is available on iPhone. The way how to control is the same with on CMS and DVR.





- (1) Select
- (2) Cancel
- (3) Automatic camera focus
- (4) Pan/Tilt menu call
- (5) Direction movement
- (6) Camera focus control
- (7) Camera zoom control
- (8) Channel selection
- (9) Relay out button (User can set relay out)
- (10) Pan/Tilt menu selection
- (11) OSD display ON/OFF button for live screen

13 — Windows Mobile Viewer

13-1 Program Installation

Copy the program, MPRMS and save it to the mobile phone.

13-2 Run Program

After save the program into the any folder, you can see the "MPRMS_Setup.cab" file as bleow picture.

☞ Please refer to the user's manual of mobile phone how to copy and save the application program.



Execute the "MPRMS_Setup.CAB" file then "MPRMS" icon will be created on the screen.



You can see the icon of "MPRMS".

13-3 Registration

In order to see a video on mobile phone, user must register the DVR network information properly. For network setting, please refer to the user's manual of DVR.

[1] Registration

Click the "Add DVR" tap to register a new DVR.



[2] Fill in the required information.



- NAME : Input any name of user's own accord.
- ID : Input the DVR's login ID.
- PASS : Input the DVR's login password.
- MODEL : Select a DVR model among H.264, MPEG-4 and MJPEG.



For Dynamic IP user, it supports DDNS service for mobile program.

- Use DDNS : Check on the "Use DDNS".
- ID : Input the "WEB CODE" of DVR. You can find the WEB CODE information in the DVR's System setup menu.

- ADDR : Do not change the dedicated IP address. (61.250.157.14)
- PORT : Input the port of DVR.
- SAVE : Save the information.

[4] STATIC (For Static IP User)



- Use STATIC : Check on the "Use STATIC".
- ADDR : Input the IP address of DVR.
- PORT : Input the port of DVR. (Basic : 3000)
- SAVE : Save the information.

13-4 Connect / Disconnect

[1] Connect



- Connect : Click the "CONNECT" tap to see the video.
- Info Setup : To modify the DVR information, click the "Info Setup" tap.
- I Only : In case of using low bandwidth, the "I only" helps to see the image which allows to transmit the I Frame only.
- [2] Disconnect
 - Disconnect : Click the "Disconnect" to disconnect.
- [3] Changing Channel.



- CH : Click the "▼" to change a channel.
- [4] Changing DVR



To connect the other DVR, click the "DVR" tap and select a registered DVR in the "DEVICE". After selecting a DVR, click the "CONNECT" to see video.

13-5 Search



To playback recorded image, click the "Search" tap then click the "Rec Info Req" menu to set the date and time for searching.

After setting the data and time, click the "START" to start playback.

(NOTE : It might be delayed to playback that is depending on network environment.)

13-6 PTZ Control



Click the "Pan Tilt" tap to control the PTZ camera. Press the direction button to move camera position. [NOTE : In order to stop moving, user must press the "STOP" button.]

- Left : Move to the left
- Right : Move to the right.
- Up : Move to the upper.
- Down : Move to the down.
- STOP : Stop movement. •
- Normal/Invert : Change direction.

13-7 Zoom / Focus



Click the "Zoom/Focus" tap to control zoom In / Out and Focus In / Out.

- ZOOM IN/OUT : Control zooming of camera.
- FOCUS IN/OUT : Control focusing of camera.

13-8 Preset



DIGITAL VIDEO RECORDER MANUAL

Click the "Preset" tap to set up the preset of camera.

- P1~P16 : Select a number.
- MOVE / SET
 - MOVE : After selecting a number among from P1~P16, press "SEND" to move camera location.
 - \odot SET : After selecting a number among from P1~P16,

press "SEND" to set a location of camera.

13-9 Alarm Control



Click the "Alarm" tap to control alarm output.

- Select a number (1~16) : Relay out port. (Default : 1)
- Time : Set a dwell time.
- ON/OFF : Press to start or stop.

(Example : If dwell time is set 5 sec., alarm output works for 5sec. when press "ON" button.)

14 — Remote connection- Andriod phone

14-1 Program installation

To install the program on Phone, execute the 'MARKET' program and download the 'MPRMS' and install it. If the installation is completed, you will see the 'MPRMS' icon on main SCREEN



14-2 Program execution

If you click "MPRMS" icon, it will be executed.



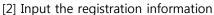
14-3 Product information registration

Please register the device to see it remotely





Click 'ADD' button to start registration.





(ORDER1) Input the Name, ID(User), Password.

Name : Input any name you want.

DIGITAL VIDEO RECORDER MANUAL

User : Input the USER ID. Password : Input the same password registered on DVR. (Notice : DVR 'MENU' → "SYSTEM" → PASSWORD → "USER ID" + "PASSWORD") IP : It is for Static IP user only.

- (ORDER2) If you check "DDNS Use", DDNS IP input space will be activated (Notice : It is for Dynamic IP user only)
- (ORDER 3) How to check the DDNS ID: DVR 'MENU' → "SYSTEM" → SYSTEM INFORMATION.
 Copy the 'WEBCODE' and input it to DDNS ID and save it.
 (DDNS PORT is automatically displayed as per the WEBCODE.)

14-4 Registered information 'Modify/ Delete'

If you want to modify or delete the information, click the reversed triangle icon.



Edit

When you change the information.



When you delete the information.



TOOL menu close (Dual function : Disconnection)

14-5 Remote connection

Select the registered list for connection.

Once you click the registered device, it shows information and if you click 'OK', it will connect DVR for monitoring.



(List selection)



(Detailed information)

14-6 Live

It shows the live image as a real-time.



- (1) Numeric button : To select the channel click the numeric button.
- (2) I frame : If the network environment is not good, you can see the 'i' frame only.
- (3) Show OSD : To display the channel name, date, time, event status etc.,

14-7 Main menu

ر Back

Channel

0

D

Q Search

On the bottom line of screen, there is the main menu. It is for the monitoring changes.

	Image: Search Relay Image: Search Relay Image: Search Relay Image: Search Relay
	Move to the previous menu or close the monitoring program.
4	Move to live mode(channel changing, I Frame, OSD display)
	PTZ mode
00	PTZ preset
	SEARCH mode



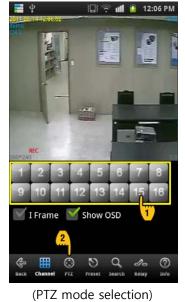
RELAY OUT



Registered information

14-8 PTZ

It is for the remote PTZ control.

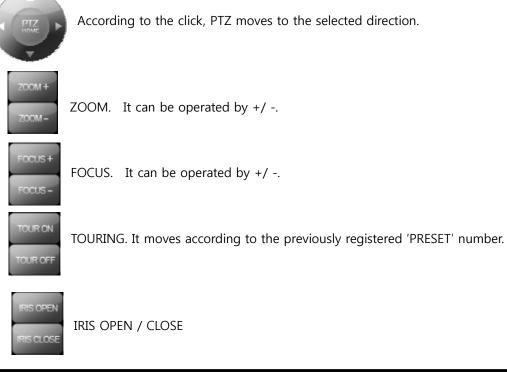




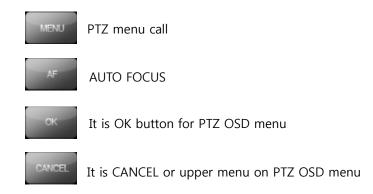
(1) Move to PTZ mode

Select the PTZ connected channel and click the PTZ button.

(2) How to control the PTZ



DIGITAL VIDEO RECORDER MANUAL



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📶 🚺 12:12 PM

14-9 PRESET

It controls PRESET on PTZ.



(PRESET MODE SELECTION)

(1) How to move PTZ mode

Select the PTZ connected channel and click the PRESET button.

- (2) How to move PRESET
 - Move : Once you select "Move", if you select the number, it moves.
 - Save : Once you select "Save", if you select the number, it saves the current location.

Move Save

(PRESET MODE SCREEN)

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14-10 Search

It is for remote search.



(1) SEARCH MODE : Select the SEARCH mode.

(2) Time Search : Click the "Time Search" button to search the time to playback.

(Notice : Return to LIVE, click 'To Live" button.)

(3) DATE/ TIME : Once you select the DATE, TIME, if you click "Start Search", it goes to Playback.



14-11 Relay out

Relay can be controlled remotely ...



- (1) Relay : Select the usages (on / off)
- (2) Number : Select the relay number.
- (3) Time : Select the relay out duration.
- (4) Execute : According to the setup 1~3, relay out operates

14-12 Information display

It shows the information of current connection.



20 3 [Information display]

It is the example of information.

- IP: 61.250.157.37: 2000 Via DDNS <- Connected IP information.
- MODEL : 16CH(63,ADT CAPS:0) <- 16Ch --- model
- WebCode : H6F6057200001394 <- Product ID(webcode).
- F/W : 84, N/W:21 <- F/W and network version.
- VSTD : NTSC <- VIDEO standard.

14-13 Disconnection

It disconnects the program.



(Back button selection)

(Yes YES button selection)

There are a couple of program termination mode.

- 1. If you click 'BACK', it asks DISCONNECTION then, you can click YES.
- 2. Or, you can choose the close button on the phone.

15 — Appendix

SPECIFICATION

ITEM		4CH	8CH	16CH	
Video Video format		NTSC/PAL			
	Video inputs	4CH	8CH	8CH	
	Compression		H.264		
	Video outputs	Composite (1) , VGA (1)			
	Playback	Split	Split	Split	
		Full screen	Full screen(1,4,6,9)	Full screen(1,4,6,9, 13, 16)	
Record	Speed	NTSC: 120fps,	NTSC : 240fps,	NTSC: 480fps,	
		PAL : 100fps	PAL : 200fps	PAL : 400fps	
	Frame	D1 (30 fps) / Half D1	D1 (60 fps) / Half D1	D1 (120 fps) / Half D1	
		(60 fps) / CIF (120 fps)	(120 fps) / CIF (240 fps)	(240 fps) / CIF (480 fps)	
	Event	Continuous, Schedule, Motion, Sensor, Motion+Sensor			
Audio	In/Out	4/1			
Alarm	In/Out	4/1			
Network	Communication	LAN [10/100, Ethernat (RJ45)]			
	CODEC	H.264 (Dual Codec)			
	Protocol	TCP/IP, DHCP			
Other	Remote access	CMS, Web browser			
	P/T/Z control	Yes(RS-485)			
	Backup	USB Pen Drive			
	USB 2.0	2 ports			
	support				
	HDD	(4/8ch DVR : Max. 1	1 x internal HDD) / (16ch [DVR : Max. 2EA HDD)	
Temp. Power supply Dimension		0°C ~ 40°C			
		DC 12V 3.5A, Adapter			
		4/8CH : 298mm(W) x 57mm(H) x 205mm(D)			
		16CH : 360mm(w) X 70mm(H) X 350mm(D)			
Unit weight		3.5Кд			

MEMO