STANDALONE DVR v2.2

Standalone DVR USER MANUAL

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Limitation of warranty

We warrant that Standalone DVR series will be free from defects in materials and workmanship under normal use and service for all parts excluding hard drives for a period of one year after the date that the customer purchased the product.

If such a defect occurs, you should contact where you purchased and return the product to us accompanied with the proof of purchase, we will either repair or replace the product through our inspection. It is your exclusive remedy for breach of this warranty. However this warranty shall not apply on repairs or replacements necessitated by any cause as listed below.

- 1) improper installation
- 2) acts of nature
- 3) accident
- 4) lack of proper maintenance
- 5) voltage fluctuations
- 6) unauthorized repair or modifications.

For more details on the limitation of warranty, refer to entire limited warranty as appendix at the end of this manual.



- To avoid additional defects, do not attempt to repair this unit by yourself. Please contact a Standalone local dealer/distributor/certified installer to get service from authorized technician. Unauthorized repairs will void the warrantee, may result in fire, electronic shock or other hazards.
- All shipment for repair should be prepaid and properly packed with a note outlining the defect.
- Send the product with purchase number or other related documents obtaining from Fore Tech or its agent as proof purchasing the product.

Chapter 2 🚫 Product Information

Features

- Enable integrated video monitoring and system management by networking with maximum 1000DVRs systems through CAMS(Central Automated Monitoring System) interface.
- High quality video display and system stability through embedded operating system with hardware H.264 video compression chip.
- ♦ Support the max D1(720*480) quality resolution video display and 480FPS recording.
- ◆ 16 CH video input and 16CH audio input.
- ◆ X-Triplex multitasking for video recording, playback, transmission and backup.
- Easy operation using remote-controller, full-page panel, GUI support.
- Network transmission of 30 different types of system error management information per system.
- High-speed transmitted video monitoring of ST DVRs up to 64 channels through CMS software network.
- High-speed network video monitoring by internet explorer through WEB CMS server within the system.

• System Design

- ◆ Watchdog function for hardware & software error
- Robust design for physical impact and temperature
- ♦ Generating 30 different types of network massages for system errors.
- ◆ Application of low power and low heat features for industrial environment

General Specifications

- ◆ Advanced hardware H.264
- Embedded O/S ROM
- ♦16 Camera input
- ◆ Auto-sequence screen division and PIP/POP function.
- Real time display
- Recording : 480fps-NTSC (PAL 400fps)
- ♦ 4 CH audio recording and two way audio communication.
- CD, DVD RW, USB external saving devices
- Ethernet 10/100Mbps, RS-232C network support
- ◆ Maximum 16 ports sensor input and 4 port alarm output
- ◆ X-plex multitasking, recording, playback, backup and network.
- ◆ STATIC, DHCP, PPPOE support

- Firmware upgrade using network and USB port.
- ♦ Remote upgrade using CMS
- ◆ Free alarm (max 30secs), port alarm (max 120secs) recording
- Watermarking
- Private backup viewer
- ◆ E-Map's layout mapping
- ◆ able to install maximum 4 HDDs or 1 ODD and 3HDDs(NS-80XX series only)





FRONT CASE BUTTON Description

8004(4ch)



REAR PANEL I/O Description

8004(4ch)







Remote Controller Button Description

(NSDVR 8004/8008/8016)

1) Rec/Stop button			2) DVR-ID button	
Records/stop images	\times		Set DVR-ID	
	REC / Stop	DVR-ID		
		3		
3) Numeric buttons				
and select channel	4 5	6		
	7 8	9		
4) Audio button				
Generates audio through speaker	+10 0			
			7) Z/F button	
5) Menu button	РЛ		Operates Zoom/Focus camera	
Shows the menu. Moves	Audio Z/F	Backup		
complete setup			8) Backup button Backup saved images to	
6) P/T button	Menu	OSD	backup media	
Operates Pan/Tilt camera				
10) Move button	ENTER)		9 Division rotating surveillance button	ı
Moves to setup and menu. Operates PTZ camera.			1 division or 4 division rotating surve	illance
			Inputs setup value	
12) Search button	Search	Log 1	3) Log button	
14) Blow backward button			Shows DVR system logs	
Max. x 128 play backward .			Stops playback and converts to survei	llance mode
15) Pause button			Max x 128 play forward	
Pause / playback the image	SPOT PIP POI	PSEQ	Frame by frame play forward on play	yback
18) SPOT button			20) POP button	
SPOT monitor setup				
19) PIP button				
			21) SEQ button	
		$\langle \rangle$		
			Λ	
22) 1ch division button	DVR		24) 9ch division button	
23) 4ch division button			25) 16ch division button	

Power on/off



Power on

Press the power button at the back to be 'ON' to turn it on after connecting the power cable.

* If you use this model with adapter, there is no power switch.

Power off

- ① press 'Menu' button [menu → system → shutdown]
- 2 select 'Shutdown' and press 'ENTER/OK' button.
- ③ select 'ENTER/OK' button after the message " system will shutdown". Press 'ENTER/OK' button.
- ④ press the power switch at the back to be 'Off'.

System Login



Input password

Input the password using number buttons at the password box.

The default value is '0000'.





MODE(Screen setup)

CLICK right Mouse button(Only for 8ch/16ch product)



• Full screen mode



press this button.



shifts to next channel each time you press this button.

• Quad screen mode



press this button.

shifts to the next channel each time you press this button.

- If you press a channel number button on remote-controller while being displayed in the current quad screen, the selected channel turns full screen.



-If you press another channel number that is not being displayed in the current quad screen, it turns another quad screen including the channel you selected.



• 9 division screen mode - press this button

•16 division screen mode

press this button

POP screen mode *only for 8Ch & 16Ch products

-press 'POP' button, it will display a certain channel larger than other channels.



OSD mode

- press 'OSD' button, icons and channel status phrases will appear or disappear.









•PIP screen mode

You can monitor 2 screens at the same time with small screen inside of one screen.

(1) press 'PIP' button on the remote control.

(2) press 'PIP' button one more time the display channels will be exchanged.



(3) If you press a channel number button on the controller, the channel will be displayed in small screen.





(4) you can move the small screen using arrow buttons.



• Sequence playback screen mode

- If you press 'SEQ' button, full screen or quad screen will be displayed in sequence.
- you can setup duration time at system menu.

SPOT screen

Display real time screen of another screen-mode in different monitor using 'SPOT OUT' port at the back of product.

▶ Press 'Function' button and select 'Spot' to set up 'SPOT' screen.

(1) type

1 single channel

▷ playback only one selected channel in full screen mode.



2 sequence single

- ▷ playback each channel in full screen mode in sequence.
- ▷ you can setup duration time at system menu.

3 sequence quad

▷ playback channels in quad screen mode in sequence.

No.	Camera
1	Camera 1 ~ Camera 4
2	Camera 5 ~ Camera 8
3	Camera 6 ~ Camera 9

[NS-8008]

Quad No.	Camera
1	Camera 1 ~ Camera 4
2	Camera 5 ~ Camera 8
3	Camera 9 ~ Camera 12
4	Camera 13~ Camera 16

[NS-8016]

 \triangleright you can setup duration time at system menu.

Digital zoom

- press (ZOOM) button in full screen mode to active digital zoom.
- zoomed area moves as you press arrow buttons.
- size of zoomed area gets bigger and smaller as you press Z/F (ZOOM) button one more time.
- press 'ENTER/OK' button, it shows the selected area bigger like the images below.





Recording

• press 'REC' button to start recording.

Check before recording !!

- (1) Check if hard disk is formatted.
- (2) Check the camera output.
- (3) Check if each channel names are correct.
- (4) Set each channel's recording quality.
- (5) Set each channel's recording frames.

Search

• press 'SEARCH' button. Then you can see the 'Search' menu like below.



• Search by time

(1) input the date and time to search. Press 'ENTER/OK' button.

•Search by calendar

- (1) you can see 'calendar' menu like below if you select 'Search by calendar'.
- (2) select the date and time using arrow keys. Press 'ENTER/OK' button.
- (3) lastly, select 'ENTER/OK' and press 'ENTER/OK button'.



- Search by event
 - (1) you can see the menu like below if you select 'Search by event'.
 - (2) input the beginning date/time and ending date/time to search.
 - (3) select channels to search.
 - (4) select events to search.
 - (5) lastly, select search and press 'ENTER/OK' button.



Go to first playback from the beginning part of recorded. Go to last Go to last

playback from the recent part of recorded.



Playback

- press 'Playback' button to start playback from the recent part of recording.
- you can choose various playback screen modes by screen mode buttons.

	Rewind Frame playback	- Rewind during playback. - Playback by frame during pause.	
	Playback	Playback and pause the recorded screen.	
•	Fast forward Frame playback	-Fast forward during playback. -Playback by frame during pause.	
	stop	Stop the playback.	

Backup data protection with virtual password

• backup data using USB Memory stick. There are two ways to backup.

- A. How to back up the original data for all or some channels .
 Backup file can be run as a backup viewer in this way.
 To back up, you should input a back up password.
- B. AVI back up

AVI back up must use USB memory. Also you can only back up for a single channel. You can play for Window system on your PC as for AVI backed up file. You do not have to input a back up password when you back up for AVI.

Note: When you play AVI backup data, some the PC s need H.264 codec.



(2) Press 'Function' button and select 'Backup'

(3) Select options from menu.



✓DEVICE – select the device to backup.

- ✓ MEDIA TYPE- select media 'CD', 'DVD' etc to backup.
- ✓FORMAT format the media before backup.
- ✓ CHANNEL select channels to backup.
- ✓ FROM input the date/time to start backup.
- $\checkmark {\rm TO}-{\rm input}$ the date/time to finish backup.
- (4) Select 'BACKUP' and press 'ENTER/OK' button.
- (5) Backup password window will show up and ask you to input the password. You must remember this password, and you will be asked to input this password when you playback the data.
- NOTE: 1) Both Admin and user can backup the data with this function. Admin can backup and playback the hidden camera data, but user can't access to backup the hidden camera data.
 - 2) Backup password is not related with DVR password, you can input the virtual password for backup only, and it must be 4 digit numbers.
 - 3) This function is available from the DVR firmware version, 090427-q2g8 and BackupViewer V1.0.9.420.



• Note : If NS-20XX model, Data backup must be used USB memory stick and back panel's USB port.

- 1) You can backup a hidden channel while logged in as an Admin.
- 2) If logged in as a general User, hidden channels cannot be backed up.

•NOTE: Do not remove USB device during Backup!.



Checking backup file size

Note: If back up size is small, you cannot view progress rate.



2) File storage display



3) Copy files progress



4) Back up complete

• Backup viewer



(1) open file : Load the backup data.

- (2) AVI: save the selected channel to avi during playback Select channel → click this icon(start) → click again(finish)
- (3) save : save the playback images as bmp file.
- (4) Print screen image
- (5) watermark : check if there is any modification of data.
- (6) playback : playback the backup data. (playback, pause, speed playback, playback by frame)
- (7) division : 1 division, 4 division, 9 division, 16 division
- (8) status box : display the status of backup viewer.

• Open file





- (1) Click 'Open file' button from the main screen.
- (2) Select files to playback.
- (3) Input **backup password**



(4) After it completes to load the backup file, you can playback it, and save it as bmp files.

- NOTE: 1) Both Admin and user can backup the data with this function. Admin can backup and playback the hidden camera data, but user can't access to backup the hidden camera data.
 - 2) Backup password is not related with DVR password, you can input the virtual password for backup only, and it must be 4 digit numbers.
 - 3) This function is available from the DVR firmware version, 090427-q2g8 and BackupViewer V1.0.9.420.

• Audio playback



- (1) Load files with audio data.
- (2) Select and playback the channel, which audio is saved, it playbacks audio data at the same time.

am 1	Cam 2	Cam 3	Cam 4
NO SIGNAL	NO SIGNAL	NO SIGNAL	NO SIGNAL
am 5	Cam 6	Cam 7	Cam 8
NO SIGNAL	NO SIGNAL	NO SIGNAL	NO SIGNAL
am 9	Cam 10	Cam 11	Cam 12
NO SIGNAL	NO SIGNAL	NO SIGNAL	NO SIGNAL
	Cam 14	Cam 15	Cam 16
NO SIGNAL	NO SIGNAL	NO SIGNAL	NO SIGNAL
Please open backup file		· · · · ·	i. i i







Image of saved bmp file as 9 division screen

- (1) Save backup data.
- (2) Select screen division.
- (3) Click 'save' button.
- (4) Name the 'Bmp' file and save.

Watermark



- (1) Load files to check watermarking
- (2) Click 'watermark check' button.
- (3) Click playback or speed playback button.



(4) It shows the image with error message if there is any modification of data. It shows 'ENTER/OK' in the status box if there is no modification of data.

NOTE: If you play to recording file from watermarking OFF, you can view this message as above while the file header part and audio part are checking. So this message is not for modulation data.

PTZ(FUNCTION)

•PTZ operation

press PTZ button to display in full screen and you can operate PTZ cameras.

press 'ENTER/OK' button in PTZ mode, you will see 'PTZ-ADVANC' menu.

PTZ general movement

- (1) moves pan/tilt camera from up/ down and right/ left using arrow keys.
- (2) enlarge or reduce the screen size by Z- /Z+buttons while using zoom camera.
- (3) can move to other channels by number button on remote controller.



(4) preset

- ① scanning
- 2 shortcut

NOTE: you can set 'Preset' at System menu. [Menu \rightarrow camera setup \rightarrow preset]

> you can set 'Scan list' at System menu. [Menu \rightarrow camera setup \rightarrow scan point]

SPOT(FUNCTION)

•SPOT Operation

Select "SPOT" after clicking "FUNCTION" on DVR system .





Note: Refer to page 30 in 'User Manual' to select Spot out channels. *Screen display setup – spot sequence scanning (full screen) *Screen display setup – spot sequence scanning (quad screen)

Audio(FUNCTION)

- Turn on/ off audio.
- You can only playback audio in full screen mode.



ON : Turn on audio MUTE : Turn off audio

Log View(FUNCTION)

• search the system event log.





• select 'Search' and press 'ENTER/OK' button to start log search.

Remote –controller ID
Remote-controller ID
(1) can use to operate several DVRs at one site with one remote-controller.
(2) can operate a certain DVR according to the registered ID value.
DVR ID
11 MENU 2010/04/01 15:45:56 R:05 4%

- It will turn yellow if remote controller's ID matches with DVR ID. Then you can operate the DVR.
- It will turn red if remote controller's ID does not match with DVR ID. Then you cannot operate the DVR.
- you can set the DVR IDs at System menu.
 [menu → system → miscellaneous]
- setting up remote-controller ID
- (1) press 'DVR-ID' button on the remote-control.
- (2) it will beep. Then you can input 'Remote-control ID'.
- (3) press the DVR ID to operate using number buttons.



SEQUENCE(FUNCTION)

• Show each channel sequentially.







Before setting up system

• Starting system menu

- (1) press 'Menu' button.
- (2) input administrator's password in password box.
- * Menu type may vary different according to model.

NOTE: default value: 0000

Menu format



• How to use Menu

- ✓ you can move menu cursor using arrow buttons.
- ✓ press 'ENTER/OK' button to activate the selected menu or to go to sub menu.
- ✓ press 'Menu' button to close system setup or go to the previous menu.



• Saving/Canceling menu setup

- > saving menu setup : select 'ENTER/OK" button.
- > canceling menu setup : select 'Cancel'' or 'Menu' buttons.



• Text input box

- (1) select letters/symbols using arrow buttons.
- (2) press 'ENTER/OK' button to select the letter/symbol.
- (3) the selected letters/symbols will show on the top text box.
- (4) click "CAP" to convert case sensitive.



• Moving to the next menu page



Setting up screen display

Screen display setup – On Screen Display



✓ Camera name – Display each channel of camera name.

- ✓ Camera number Display channel number.
- ✓ Camera border Display each channel's border.
- ✓ Language Choose menu language.
- ✓ OSD HIDE Turn on or off on OSD screen.
 - ALL: All display

- STATUS BAR: status bar can be hidden after a certain time.

- ✓ Left margin Adjust the OSD's left margin.
- ✓ Right margin Adjust the OSD's right margin.
- \checkmark Top margin Adjust the OSD's top margin.
- ✓ Bottom margin– Adjust the OSD' bottom margin.

* VGA: VGA monitor margin setting, TV: TV output margin setting



•Screen display setup – live sequence scanning (single screen)

Setup duration time for live sequence scanning in full screen.

NOTE : can input maximum 99 second.

•Screen display setup – live sequence scanning (quad screen)

Setup duration time for live sequence scanning in quad screen.



NOTE : can input maximum 99 second.

Default

Quad screen number	camera
1	Camera 1 ~ Camera 4
2	Camera 5 ~ Camera 8

[NS-8008]

Quad screen number	camera
1	Camera 1 ~ Camera 4
2	Camera 5 ~ Camera 8
3	Camera 9 ~ Camera 12
4	Camera 13~ Camera 16

[NS-8016]
•Screen display setup – spot sequence scanning (full screen)

This function does not apply to some models.

Setup duration time for spot sequence scanning in full screen.

NOTE : can input maximum 99 se						
	DISPLAY -	SPOT-SEQ(F	JLLJ			
	1000					
SEQ	СН	TIME	SEQ	CH	TIME	
1	81	44	9	89	82	
2	82	82	10	18	82	
3	83	82		11	82	
4	84	33	12	12	82	
5	85	82	13	13	82	
6	86	44	14	14	82	
7	87	82	15	15	82	
	00	122	16	16	an	
9.	00	94	10	AN I	94	
DEFAULT	CH AL	L TIME 82		ок	CANCEL	

•Screen display setup – spot sequence scanning (quad screen)

This function does not apply to some models.

NOTE : can input maximum 99 second.

Setup duration time for spot sequence scanning in quad screen.

SEQ	CH1	CH2	снэ	CH4	ПМЕ	
	81	82	83	84	83	
	85	86	87	88	83	
	89	18	11	12	83	
	13	14	15	16	83	

◆[Default]

camera
Camera 1 ~ Camera 4
Camera 5 ~ Camera 8

[NS-8008]

Quad screen number	camera
1	Camera 1 ~ Camera 4
2	Camera 5 ~ Camera 8
3	Camera 9 ~ Camera 12
4	Camera 13~ Camera 16

[NS-8016]



• Screen display setup – miscellaneous

• Deinterlace

prevent screen twittering during playback of image which is recorded in low frame rate and 720X480 or 720X576 resolution.

●VGA frequency

setup the frequency of connected VGA monitor.

- 800 * 600
- 1024 * 768
- 1280 * 1024

Camera Setup

•Camera setup - general

- ➤ title input channel names.
- > COVERT on/off show or hide channels.
- ➤ audio select connected audio channels.

PRATRIPETER ST						
E 📷 ca	MERA - GEN	ERAL				
CH	TITLE		COVERT		AUDI	PILLE THEY MEANING COLORS.
	CAM01		COVERT OFF	-	CH-01	
R 1/2	CAM02	Λ_{L}	COVERT OFF	• V	<none></none>	
Duena Vista	CAM03	VC	COVERT OFF	- V	<none></none>	- iena Vista
4	CAM04		COVERT OFF	-	<none></none>	
5	CAM05		COVERT OFF	-	<none></none>	
R 1/6	CAMOS		COVERT OFF	▼ 10/	<none></none>	
Quena Vizta	CAM07	Vu	COVERT OFF	₹ V	<none></none>	- iena Vista
8	CAMOB		COVERT OFF	-	<none></none>	
RISTRIBUTES BT	RENTROWN	7710 .0				PATRIBUTY'S ST
E 1-8	9-16				ок	CANCEL
TILM THEY PRESENT OF A CO., 197.						PILM DISTRIBUTION CO., INT.

• Camera set up – PRIVATE ZONE

- ➤ Zone set up Censor the selected Cell zone.
- ➢ Clear all − Clear the selected Cell zone.



The on- screen image will be censored as above picture.

•Camera setup – PTZ

- > ID input camera IDs.
- > protocol select the registered protocol.
- ➤ baud select the registered baud.

		AMERA - Ph			
Sale -	CH	ID	PROTOCOL	BAUD	Western
	1	002	PELCO D	4800	
-	21	000	PELCO D	4800	and the
	3	000	PELCO_P	4800	
	4	000	SK2161	4800	
	5	000	CNB102	4800	STATE OF
	a i	000	PELCO_D	4800	nor the
	7	000	PELCO_D	4800	
	8	000	PELCO_D	4800	MILLION CONTRACT
					a line h
	- 4	10000000000			KCAL IS SHOW

- ➤ The supported protocol type's DVR
- PELCO-D
- PELCO-P
- SCC641
- SK2161
- CNB102
- ADTECH
- 15-CD51M
- COP1
- COP2
- DSC230
- LININ
- CYNIX
- NITRO
- PTC-400C
- TeleEye
- TecVoz
- Communication speed(bps)
- 1200
- 2400
- 4800
- 9600
- 19200
- 38400
- 115000

•Camera setup – preset

NOTE : system will record according to preset positions of camera. check if camera supports preset function before setting up. can setup 64 preset positions for each channel.

man!	2	-	2	-		2	
1	CAM	IERA - PR	ESET				
	CAMERA	1		PAGE	1		
#	NAME		-	# NAME	and the		
A COL	PTZM	SET	CLE	B PTZOS	SET	CLE	
2	PT202	SET	CLE	PTELO	SET	CLE	
30	PT203	SET	CLE	HI PT211	SET	CLE	
- 4	P 1204	SET	CLE	12 PT212	SET	CLE	
	PTZ05	SET	CLE	13 P1213	SET	CLE	
6	PT206	SET	CLE	P 1214	SET	CLE	
74	PT207	SET	CLE	15 P 7215	SET	CLE	
	P T202	SET	CLE	16 PT216	SET	CLE	
	CLEAR AL	L			ок	CANCEL	
	PP2	The second	a straight				2

- ✓ camera select cameras to setup preset positions.
- ✓ page move to the next page.
- \checkmark clear all clear all the setup values.
 - (1) Select camera.
 - (2) Select 'Set' button.
 - (3) Then the channel turns PTZ mode.
 - (4) Move the camera to get the position you want.
 - (5) Press 'ENTER/OK' button to save the preset.



Camera setup – TOUR

NOTE : you can move camera to follow the path by saved preset positions for each channel. You can set 4 scan point list for each channel.

- > camera select a camera to set scan point.
- \succ list select a list to save scan point.

NOTE : you can setup total 4 lists. one scan list is consist of total 16 preset position.

- > preset select preset position you want.
- \succ clear all clear all setup values.

,	CAMER	A - T(OUR				
c	AMERA	1			LIST	1 -	
	PRESE	T	SEC		PRESET	S	EC
	OFF	F	03		OFF	•	3
	OFF	• -	03	10	OFF	- 0	3
	OFF	•	03	11	OFF	- 0	3
	OFF	-	03	12	OFF	- 0	3
	OFF	•	03	13	OFF	- 0	3
	OFF	•	03	14	OFF	- 0	3
	OFF	•	03	15	OFF	- 0	3
	OFF	•	03	10 - 10	OFF	•	3
(CLEAR ALL				ок		CANCEL
	-	9				-	

Ex)

Camera 1 will move following the path as below.

 $\mathsf{PTZ01} \rightarrow \mathsf{3sec} \rightarrow \mathsf{PTZ09} \rightarrow \mathsf{3sec} \rightarrow \mathsf{PTZ04} \rightarrow \mathsf{3sec} \rightarrow \mathsf{PTZ15} \rightarrow \mathsf{3sec} \rightarrow \mathsf{PTZ01} \rightarrow \ldots \ldots$

•Camera setup – COLOUR

- > camera select a camera.
- > bright adjust color brightness.
- > contrast adjust color contrast.
- ➤ color adjust camera color
- > default value set it as default value.



•Camera setup – position

- camera select a camera
- > right/left move the camera to right and left.
- default value set it as default value.

CAMERA - POSITION	CAMERA
Papa	
DEFAULT	OK

Record setup

•Record setup – Property

CH	RESOLUT	ON	EVE	NT		R	NOR	MAL		-	h
1	720x480	-	NORMAL	-	8	-	NORMAL	-	8	-	
2	720x480	-	NORMAL	4	8	-	NORMAL	4	8	-	
- 10	720x480	•	NORMAL	4	8	•	NORMAL	•	8	- 6	
- 4	720x480	-	NORMAL		8	-	NORMAL	4	8	-	
6	720x480	-	NORMAL	-	8	•	NORMAL	•	8	-	
6	720x480	-	NORMAL	-	8	-	NORMAL		8	•	
7	720x480	-	NORMAL	-	8	•	NORMAL		8	•	
8	720x480	-	NORMAL		8	-	NORMAL	-	8	- 0	Ē.
-	A		-	1	Г	R	H		-7		h
ALL	360x240	-	NORMAL	-	30	-	NORMAL	-	30	-	

> resolution – set recording resolution for each channel.

NTSC	PAL
720 x 480	720 x 576
720 x 240	720 x 288
352 x 240	352 x 288

> quality – set recording quality for each channel.

Recording quality	Display quality	HDD capacity needed
Basic	Low	Small
Normal	Normal	Medium
High	Good	Large
best	Very good	Very large

➤ Frame rate

set frame rate for each channel.

•Record setup – schedule

- > system records according to set schedule.
- \succ see below to see how to set up schedule.

С	Continuous recording
E	Recording when even occurred
I	C(continue)+E(event)
(Blank)	Not recording

- (1) Select a channel to set up schedule.
- (2) Select day/time to record and press 'ENTER/OK' button.
- (3) it shifts to different type as you press 'ENTER/OK' button.

_								ł	1						1	ſ	1						1	-
	1		R	CC	RD	- 5	SCH	ED	ULE			_												
ALL	0		Π		1	5		Γ	Γ	Γ	10			-		15			Г	1	20	Γ		ſ
SUN																								
MON					0			C		e					•	0	-	c		e		0		
TUE				6	0	0	6	C			•	8	•	0	0			le i	0	10				Γ
WED			12	c	0	x	10	•	ic.	6	10		¢.		a	c	c	C		10 -1		0		
THU			6	0	0	0	0	0		-		0				6	6	-	0		0			
FRI			0			n		0	0	C			6		0		C	c			D	10	Ţ	
SAT																					Γ	Γ		Γ
		1														10.01								
	5							1								C:C	ant	Inu	ous	HE:	Eve	int	H(C	ŧ
CH	AN	IEI	A	1		Ŧ												OK	R	1	6		CE	

•Record setup – miscellaneous

- > overwrite erase previous video data and record over it when HDD is full.
- > auto delete automatically delete data after set date.
- > continuous record you cannot stop recording while it is in process as it continuously records.
- > watermark activate watermarking function.

	RECORD - MISC		100
-	OVERWRITE	ON OO DAYS (0-99)	-
-	REC MODE		
			OK CANCEL

Note) when setting as 'ON' for 'Water Mark' option, all recording files are applied with watermarking, this recorded file can be checked at Backup Viewer if someone is altered or edited recorded file with intentional purpose.

(please check out Backup-watermark section of user manual.)



SCHEDULE: Record according to schedule setting. CONTINUE: Continuous recording for all day / time. EVENT: Only recording when the event occurred. Event recording time PRE/POST only records during recording setting time. (In reference to event setup-misc set up page.46)

Event setup

NOTE : you have to set it as 'Even recording' at 'Schedule record setup' to use this function.

When the event (sensor/motion/video loss) is detected on DVR side, DVR alerts by message pop-up, beep sound or E-mail notification. You must setup event recording on schedule record setup to use this function.

• Event Setup - Motion

СН	MOTION-AREA	SENSITIVITY	ALARM-OUT	
	ALL 🔽	5 🔽	NONE	
2	OFF	0	NONE	
3	ALL	0	NONE	
4	OFF	0	NONE	
5	OFF M		NONE	
6	OFF 🔽	0	NONE	
7	OFF 🔽	0	NONE	
8	OFF 🔽	0	NONE	

- Motion area select detecting area.
 - (1) all detect the whole camera screen.
 - (2) part detect motion detection area.



(3) off – no motion detection.

Sensitivity – select a level of detection sensitivity. level of sensitivity : 0 < 1 < 2 < <9</p>

>Alarm out – activate alarm on motion detection.

•Event setup - sensor

- > Record select camera to record on sensor detection.
- ➤ Type select sensor type.
- > Alarm out activate alarm out on sensor detection.



If you choose 'multi' in the previous record menu, you can record all channel or specific channel.

Click channel you want to choose after unchecked "All".



• Event set up – VLOSS

≻ ALARM-OUT – Select Alarm port.

NONE: Alarm port does not output. PORT 1: Beep occurs to the specified Alarm port. Multi : Beep occurs to the selected Alarm port. (Some models do not apply.)

- Ai	di.	A	di.
EV	ENT - VLOSS		
			1 1 A
CH	ALARM-OUT	CH ALARM-O	TUT
ali a 1	PORT 1	NONE	
Sar 2	NONE	10 NONE	- SAR
	PORT 1	NONE	
4	NONE	12 NONE	
A	NONE	13 NONE	
A 6	NONE	NONE	
7	FORT	15 NONE	
8	NONE	16 NONE	
di	di	di	-
-		ок	CANCEL
and the local date of the		a second s	

•Note:

- 1) Alarm output port can be specified by the overlap.
- 2) Alarm port number can be different according to model.

- Event setup E-MAIL
 - EVENT E-MAIL(OFF/ALL_TIME/Schedule)): Choose an e-mail sending function. If you select 'schedule', you can receive e-mail which is desired day/time as setting 'E-MAIL SCHEDULE'.

EVENT - E-I	MAIL
EVENT E-MAIL	ALL TIME
EVENT TYPE	OFF CALL TIME
E AN E	12 VLOSS

- Choose EVENT TYPE
 - MOTION(ON/OFF): When motion is detected, you can notice by e-mail.
 - POWER ON : When power is on or booting, you can notice by e-mail.
 - SENSOR(ON/OFF): When sensor is detected, you can notice by e-mail.
 - HDD error: When Internal HDD fails, you can notice by e-mail.
 - VLOSS(ON/OFF): You can notice about camera input down/up.
- > DVR NAME: E-mail as selected DVR-Name.
- > E-MAIL ADDRESS: You can specify up to 3 recipient.





EX. E-mail notification you would receive.

DVR@dvr	COM EVENT MESSAGE 2000 05 14 /E) 0.74 0-	10 100	17
DVR@dvr.	com EVENT MESSAGE 2009-05-14 (목) 오전 9: com EVENT MESSAGE 2009-05-14 (목) 오전 9:	18 4 KB	1
글 날짜: 어제			
0 J	RE: program release for HSB system upgrade 2009-05-13 (수) 오후 7:	12 296 KB	P
J	RE: NORTHWOOD POS DVR and Technical Upgrade i 2009-05-13 (수) 오후 6:	41 85 KB	Y.
DVR@dvr. 보낸 날짜: 없 받는 사람: al	com 18 nyryu@fare2000.com		170
DVR@dvr. 보낸 날짜: 없 받는 사람: ai	COM 18 nyryu@fore2000.com /14 09:18:48] [MYDVR141/192.168.000.141] VLOSS Video input	ch 8 down	
DVR@dvr. 보낸 날짜: 없 받는 사람: ai [2009/05/	.com 18 nyryu@fore2000.com /14 09:18:48] [MYDVR141/192.168.000.141] VLOSS Video input	ch 8 down	
DVR@dvr. 보낸 날짜: 압 받는 사람: al	.com 1음 nyryu@fore2000.com /14 09:18:48] [MYDVR141/192.168.000.141] VLOSS Video input	ch 8 down	
DVR@dvr. 보낸 날짜: 입 받는 사람: ai [2009/05/	.com 18 nyryu@fore2000.com /14 09:18:48] [MYDVR141/192.168.000.141] VLOSS Video input	ch 8 down	
DVR@dvr. 보낸 날짜: 읍 받는 사람: al [2009/05,	.com 1음 nyryu@fore2000.com /14 09:18:48] [MYDVR141/192.168.000.141] VLOSS Video input	ch 8 down	

[Example for received email]

•Event setup – E-MAIL SCHEDULE

- EVENT E-MAIL SCHEDULE ALL SUN MON TUE WED THU FRI SAT OK N CANCEL
- > You can set up schedule for 24 hours a week.

This schedule setting is for received e-mail from Saturday to Sunday at 8:00pm~6:00am. You can notice event happening by an e-mail while you don't work.

• Event setup – ALARM SCHEDULE

> You can set up schedule for 24 hours a week.



This setting is for alarm from Friday to Monday at 09:00am-5:59pm. You can recognize any events by alarm during working.

• Event setup – MISC

- \succ pre-recording time setup pre-recording time on the selected event detection.
- > post-recording time –setup post-recording time on the selected event detection.
- > ALARM buzzer enable alarm buzzer on the selected event detection.
- > alarm out time setup duration to activate alarm out on the selected event detection.
- > EVENT POPUP select 'on' to enable message pop-up on the selected event detection.
- > POPUP OUT select type of video out for message pop-up ; VGA or SPOT.
- > POPUP Sequence time setup POPUP sequence time. (1~10sec)

	ENT - MISC			
- Buy	PRE-REC TIME	04	SEC (0-30)	Lun
Frei P	POST-REC TIME	010	SEC (0-120)	Sur P
Same Chora	ALARM BUZZER	ON	- aniora ford	Annale Contraction
- Court A	LARM OUT TIME	005	SEC (0-120)	- Level
For C.	EVENT POPUP	OFF	C	Su Co
Kat a	POPUP OUT	NORMAL	I marge the	And a state
POPUP	SEQUENCE TIME	103	SEC (1-60)	- and
Real	1 Sim		S	8 -

• HDD Failure – alert by E-mail notification

When HDD fails, the system alerts by error message pop-up, beep sound as well as E-mail notification.



Storage

• Storage – HDD format

>You must format HDD when you install HDD.



All saved data will be removed after HDD format process!

• Storage – AUTO-BACKUP

Format: Format HDD the connected USB TYPE.View: Display file info the connected USB TYPE's External HDD.Password: Backup file is a temporary password.

(Only use back up view.)

TYPE	OFF 🚽	
USB-1	OFF	SHOW
USB-2	NONE	SHOW
USB-3	NONE	SHOW
USB-4	NONE	SHOW

• STORAGE- HDD SMART

You can check HDD's temperature and if temperature is higher than setting , you can set the alarm.



- (1) HDD1, HDD2 : Inform the current temperature and displays for installed HDD.
- (2) SMART ON/OFF: If temperature is higher than setting, you can also set the alarm or not.
- (3) TEMPERATURE THRESHOLD: You can set up when SMART menu is ON.
- (4) INSPECTION CYCLE: Set up inspection cycle .
 - EVERY 10 minutes : Check up each 10 minutes.(00, 10, 20, 30,40,50)
 - Hour : Check up regular time.(00 hour, 01 hour, 02 hours,.....22 hours, 23 hours)
 - Daily : Check up every days as a fixed time.

Example) If you set up 09a.m, Check up every 09:00 a.m.

'REFRESH' button: Display HDD's current temperature as refresh.

• STORAGE- AUTO-BACKUP

> Auto-Backup function with internal HDD and external HDD to prevent Data loss.

	TYPE	OFF	MA A
-	USB-1	OFF EXTEND	SHOW
Termina I	USB#2	MIRROR SATA MIRROR	SHDW
the state	USB-3		SHOW
	USB-4	NONE	SHOW
	058-4		

EXTEND: User can use EXTEND backup through connected USB external HDD.

Data(which is need to be deleted) will be send to USB external HDD if Main HDD is full. **MIRROR:** User can use MIRROR backup through connected USB external HDD.

Main HDD and external HDD will save same data at the same time.

SATA MIRROR: Save same data on 2 separated HDD.(with internal HDD)

• STORAGE- MISC

- > Beep sound setting for warning message form Disk error.
 - OFF: No beep sound and activate error message.
 - ON : Beep sound on and activate error message.

Network

- Network setup
 - NETWORK SETUP TYPE STATIC P ADDRESS 192.168.000.102 OATEWAY 192.168.000.001 255.255.255.000 MAC ADDRESS 00-0E1B8/02.7E17E PPPOE ID PASBWORD 00.0E1B8/02.7E17E OK CANCEL
 - static Input static IP address and gateway, net mask.

DHCP – System automatically recognizes IP address. Click "OK", after selecting DHCP. You will have IP address.



>PPPOE – ADSL only, input registered ID and password.



• NETWORK- STREAM

If CMS or web CMS access, Dual stream function offers in order to reduce the load on the network.(default rate is ON.)

		DUAL	STRE	AMING ON	-		-		
(CH	RESOLUT	ION	NOR	MAL	-	-		
	1	360x240	-	NORMAL		8	-		
	2	360x240	-	NORMAL	-	8	-	R	
	3	360x240		NORMAL		8	-		
aller a	4	360x240	•	NORMAL	-	8	-		- And
	6	360x240	-	NORMAL	-	8	-	-	
	6	360x240	-	NORMAL		8	-		
	7	360x240	-	NORMAL	-	8	-		
	8	360x240	•	NORMAL		8	-		the second
A	ULL.	360x240	F	NORMAL	-	8	-		

(1) DUAL STREAM

- ON: Transmit to each channel's setting value.
- OFF: Transmit according to DVR Set's recording setting value.
- (2) Resolution: You can choose 3 kinds of resolution.
 - 720x480 / 720x240 / 360x240.
- (3) Normal: You can choose 4 kinds of video quality.
 - Basic / Normal / High/Best
- (4) Frame : You can choose the number of transmitted frame for each channel. The total number of frame can be different according to model.
- (5) If you want to apply all channels, select "All".

Note: If DUAL STREAM is "ON ", network can take the load.

Please use properly this function according to network status.

Network - DDNS

NOTE : We have own our DDNS Server.(DDNS.FTDVR.COM)

- SERVER select registered server.
- SERVER-URL indicate registered server URL
- ➤ USER ID input ID registered to server.
- > PASSWORD input password registered to server.
- > GROUP ID input group ID registered to server.
- > STATUS indicate operation status of DDNS.
- > TEST- try to connect with ID and password registered to server.



Client

- Client port select port to connect.
- > Web port select web port to connect to web browser.
- > Bandwidth limit transmitting data capacity through the network.
- > DVR-Name input DVR name to connect CMS S/W.

	ETWORK - CLIENT				
		7620-76	24		25/54
	WEB-PORT	0080			
2000	BANDWDTH	UNLIMIT	ED		ala ar
-	DVR NAME	102			-
10	10.000			ок	CANCEL
Carrier-	1.20				

• Access list

- > System can limit remote-PC, accessing network.
- > Able to register Static IP and only remote-PC with registered IP can access system.



NOTE : the system restricts all the other IPs, those are not registered if you once register an IP. If you want to access with all IP addresses, do not register any IP.

• Server

- > CC IP input connection info of CAMS CC.
- > PORT input connection port of CAMS CC. (default value: 6500)
- ➤ CMM IP input connection info of CAMS CMM.
- > PORT input connection port of CAMS CMM. (default value:7600)

	Section 1	The section of	The state of the		
	IETWORK - SERVER				
Con Chi		No Cont			
-	CC IP	000.000.000.000			
1 1 AR	PORT	0000		710	
- Com	States and	And States		- min	
and the second second	CMM IP	000.000.000.000			
	PORT	0000		ALC.	
Rent				2	X
and the second					
			ок	CANCEL	
The second		1000	3	100 CT	

System

•System – Configuration info

NOTE : you can save the set values for menu to USB storage.

>Load configuration – loads saved configuration information.



Save configuration – save the values set in the current menu.



>Default value – set it as default value.



•System – Time management

	CURRENT TIME	2010/04/01 18:05:19	1		
	DATE FORMAT	YY MM DD	-		
	TIME FORMAT	24HOUR	-		
	TIME ZONE	+09:00 Seoul			
	TIME SYNC	OFF	-		
	SERVER IP			TEST	
	10 55	12 55	- 12		
-				4 3	

- > Current time indicates current time of system.
- > Date format select date format to display.

classification	display
YY/MM/DD	2008/03/03
MM/DD/YY	03/03/2008
DD/MM/YY	03/03/2008

> Time format – select time format to display.

classification	display
AM/PM	01:39:01 PM
24 HOURS	13:39:01

- > Day Light Saving Day light Saving Time area sets up automatically.
- Time zone Select the time different from standard time of Time-Server then check automatically the check-box of on/off option.

CURRENT TIME DATE FORMAT TIME FORMAT TIME ZONE	ME 2008/12/30 15: 57: 44 YY/MM/DD 24HOUR +09: 80 Seoul GMT Greenwich Meau, Time		SYSTEM - T	ME
SERVER IP	GMT Casablanca, Monrovia +81:88 Belgrade, Bratislavi +81:88 Brajevo, Skopje, ' +81:88 Brussels, Copenha •81:88 Brussels, Copenha	TEST	CURRENT TIME DATE FORMAT TIME FORMAT TIME 20NE	2888/12/38 15: 58: 84 YY/MM/DD
CHANGE TIME	ОК	CANC	DAY LIGHT SAVING TIME SYNC SERVER IP	

Time synchronization

When using TIME SYNC Function, please select "SNTP". And then, System can Automatically connects to internet time-server to check current time.

> Server IP – input time-server IP address.

Omit 'www'. Select 'ENTER/OK' and check if time-server works. example) time.kriss.re.kr → correct input www.time.kriss.re.kr → wrong input

Change time – change system time.

NOTE : be cautious when you change system time. Because if you set the system time earlier than the time originally set, the saved data after changed system time will be deleted.

• SYSTEM – MISC

		a mar	a made
SYS	TEM - MISC		1
- The second			The state
500	SYSTEM-ID 05		5000
Contraction of the second	HEYBOARD NON		Color
	KEY-TONE ON	Tweller'	Calibra 187
A CONTRACTOR	CQ	Q.	- Sec
2		ок	CANCEL
	- Sec		392

- > SYSTEM- ID To use RS-485 or remote control, you must input SYSTEM ID.
- > KEYBOARD You can use keyboard controller.

Supported keyboard controller as follows.

- WONWOO
- CHUBB
- HISHARP
- Key -TONE : When you use a mouse, front keyboard or remote control etc, you can turn on/off the sound.

-					
	SYSTEM - USER	2			j.
USER	PASSWORD	SETUP	REC.F	NETWORK	MONITOR
ADMIN	****				2
NETUSER	****	NR -	Less		Pro-Later-
USER1	****				
USER2	****				
USER3	****				2
USER4	****		- Leve	State -	Part Provide State
\bigcirc	C		REC.F : RE	C + PLAYBAC	K + BACKUP
TIME OUT	OFF	05 (min			
3				ок	CANCEL

• System – USER/Password management

- > ADMIN password change the administrator password.
- > NETUSER password from network user password by CMS.
- > USER password change the USER and user password for CMS.
- > SETUP check set whether to input user password or not before accessing system menu.
- > REC.F check set whether to Record + Playback + Network and Backup.
- > NETWORK check via network user by CMS.
- > MONITOR check Monitor this DVR system.
- > TIME OUT If there is no input during schedule time, automatically logout.

• System – Software

- Show current software version.
- > Upgrade firmware software.

				CORD SC
and the second second	ENC. FIRMWARE			
	DEC. FIRMWARE			
	BOOTLOADER	cs1648.0.3		
1215	KERNEL	2.6.15 cs3	205	1-1215*
NH C	APP. VERSION	cs1648-ft_16-v3	5_4-100331	
	UI	5.9.2		
	DB	2.11.0		
136	RECORDER	1.6.1		*
AN A	PLAYER	1.7.12		
	NETWORK	1.11.2		
INSTRUME AND ADDRESS				

•System – System shutdown

Select "System shutdown". If you see the message "system will shutdown", you can shutdown system.



Note: To protect your computer system, If you want to you turn off on your computer's power, you must turn off after selecting shutdown on system menu.

If you don not follow up, your computer can be damaged firmware or can be occurred a fatal error in the system.



Chapter 5 S Firmware Upgrade



NOTE : There are two ways to upgrade firmsare.

- (1) USB upgrade upgrade system using USB memory stick.
 - (2) NETWORK upgrade upgrade system by internet connection.

USB upgrade

(1) Copy the provided firmware file to USB memory stick.

NOTE : The firmware file should be saved in route directory of the USB device.

- (2) Connect USB memory stick to system USB port.
- (3) Press 'Menu' button and move to the next software. [menu) system) software]
- (4) You will see a new box if you select 'Upgrade'
- (5) You will see menu like below if you select 'USB upgrade'.

SYSTEM - SC	OFTWA	RE				
ENC. FIRMW	ARE					
DEC. FIRMW	ARE				A second s	
BOOTLOA	DER	cs1648.0.3				
KEI	RNEL	2.6.15 cs3				
APP. VER	SION	cs1648-ft	16-v3_5_4-10	00331		
	UI	5.9.2				
UPGRADE	PB	2.11.0				
USB UPGRADE	ER	1.6.1		1 00-		
NETWORK UPGRADE	ER	1.7.12			USB OFGRADE	
	ŧК	1.11.2		Device	/dev/sdb	
UPGRADE				File List	flash-480-ft_16-08	0725-84
			11-10		OK	EL

- (6) Device select USB device with firmware file.
- (7) File list select the right firmware file.
- (8) Select 'ENTER/OK'. System automatically upgrades. System will reboot after upgrade is completed.

Network upgrade

Network upgrade

- (1) Press 'Menu' button and move to the next software.[Menu) system) software]
- (2) You will see a new box if you select 'Upgrade'.
- (3) Select 'Network upgrade'.

March 1	N. S.L.		State.		L. States
SYST	TEM - SOFTWA	RE			1
ENC	. FIRMWARE	9		9	
DEC	FIRMWARE	-	1251.4	14	Margaret Margaret
	the second second	ETWORK UP	ORADE		
6.48	SERVER IP	smart-dvr.c	om		6,30
M. Hickory	FILE NAME	480-ft_16.ta	r.gz		Margare 1
w. are an	We de	ок	CANCEL		a complete
			successive of the local division of the loca		the second se
Contra -	PLAYER	1.7.12	COVE		
Millional	PLAYER	1.7.12	ul Minu		
UPGRADE	PLAYER	1.7.12 1.11.2	J. King	ок	CANCEL

- (4) Select 'Server IP' with firmware file and file name. then select 'ENTER/OK'.
- (5) You can manually input server IP and file name if the system appointed server IP and file name is different.
- (6) System will automatically reboot after upgrade is completed.

NOTE : Network upgrade function is an upgrade method by using internet. It depends on network place or internet status, user cannot be accessed.





User Interface



Search : search saved image by remote or local search.

Setup : setup on CMS system.

E-Map : Monitor DVR sites, Camera, Sensor, and Control through E-MAP.

Log Viewer : can check or print 'Log file' in the CMS system.

Log out : Log in/out

SEL

Start : can execute overall CMS functions such as log in/out, Setup, Search.

Display screen

- DXR #1 [CANOII] : It represents site code, screen number, and camera name.
- **I**: "R" It represents this image is saving on CMS.
- 🚺 : It represents this image is with audio data.
- C10-18 16:41:15 : It represents the time of data transmitted.

"10-12 16:30:14" DVR System time

- E-Map : Olick this button to enable 'E-MAP'.
- Print : O Click the button to print the image.
- Snapshot:

Click the button to save the appropriated image. (Location for saving - C:\CMS_2KV3\Image)



E-Map, Print, Snapshot button shown on one division screen.

• Screen Switch on Display mode : put the mouse on the screen, and click right mouse button and drag to the desired screen to display.


- Full Screen Mode : Only normal main screen is available to apply full screen mode in CMS function.
 - Normal Mode \rightarrow Full Screen Mode
 - Double click right button of mouse on normal main screen.
 - Enter ID and password and click "OK".



(Full Screen Mode)

■ Full Screen Mode → Normal Mode

- Double click right button of mouse on full screen mode.
- Enter ID and password and click "OK".



• PTZ Controller: can control PTZ from the remote site of CMS via network.

- Preset Setting: after selecting Preset, click SET button.



		P	age 01		-		
Pres	et Name			Preset	Name		
1	PTZ01	Set	Clear	9	PTZ09	Set	Clear
2	PTZ02	Set	Clear	10	PTZ10	Set	Clear
3	PTZ03	Set	Clear	11	PTZ11	Set	Clear
4	PTZ04	Set	Clear	12	PTZ12	Set	Clear
5	PTZ05	Set	Clear	13	PTZ13	Set	Clear
6	PTZ06	Set	Clear	14	PTZ14	Set	Clear
7	PTZ07	Set	Clear	15	PTZ15	Set	Clear
8	PTZ08	Set	Clear	16	PTZ16	Set	Clear

User move PTZ on the direction of up, down, left & right, with Zoom In & Out to the position which user want to move, and then click Set Button.

Preset setting can be available up to 64 times.

-Preset Operation: select Preset at PTZ Main controller, and then input Preset number at Number, if click RUN Button, move to Preset position which was input number.

- ScanPoint Setting: after selecting ScanPoint click SET Button.

Point	Preset	Time	Point	Preset	Time
1	01 💌	05 💌	9	09 💌	05 💌
2	02 💌	05 💌	10	10 💌	05 💌
3	03 💌	05 💌	11	11 💌	05 👻
4	04 💌	05 💌	12	12 💌	05 💌
5	05 💌	05 💌	13	13 💌	05 💌
6	06 💌	05 💌	14	14 💌	05 💌
7	07 💌	05 💌	15	- •	03 💌
8	08 💌	05 💌	16	- •	03 💌

According to the order of the left image menu, select Preset number & dwell time.

ScanPoint can be set up to 4 times per camera.

- ScanPoint Operation: Select ScanPoint at PTZ Main controller, input ScanPoint number on number, and then click RUN Button, can be operation for Scanpoint function.

Connection list & Sensor/Control & Screen Division



Connection list

- There are two ways which are Pre-Memorize and DVR list on the connection list.
- Pre-Memorize

show the information for each DVR site on the list.

Screen list:

can change the position of camera after selecting screen or list.



♦DVR list

Monitor each screen in order without extra display setup.

- Single / Multiple Mode : Click the button to activate single or multiple mode as pre memorize access.
- Connection : Click the button to connect or disconnect to DVR.
- Remote Setup : Click the button to use remote setup for selected DVR.
- Remote Search (1): Click the button to use remote search for selected DVR
- •.E-map () : Click the button to use E-MAP for selected DVR.
- Status : It represents the information and the status of accessed DVR.



Sensor/Control

- Select the registered site name, then, click each button of sensor and control to activate.

Screen Division

- Various surveillance modes available through division buttons.

Status

•Status List : It represents the event message of CMS program.

 ${\it Status}\ {\it List}$: Click the button to check the details of event message.

Status List 17:12:23 (SITE) Sensor is detected by NS #1. 17:12:23 (SITE) Control is detected by NS #1.			
	Message Board		
	Tirre	Message	
	3 10-13 15 29:50	User administrator is logged on	
	🐌 10-13 15 37:17	DVR Control #1 is detected	
	🐌 10-13 15 37:19	DVR Control #1 is detected	
	🐌 10-13 15 37:23	DVR Control #1 is detected	_
	🐌 10-13 15 37:27	DVR Control #1 is detected	
	20 10-13 15 37:28	DVR Control #1 is detected	
	3 10 13 15 37:30	DVR Control #1 is detected	
	2010-13 15 38:00	DVB Control #1 is detected	
	2010-13 15 38:01	DVR Control #1 is detected	
	2010-13 15 38:16	DVR Control #1 is detected	
	X	NUMBER FRANKER FRANKER	<u> </u>

• Save Disk List : Select the drive to setup save disk for the data from each DVR site. Save Disk List : Free space of and the status of each drive can be checked.

:₩ 30% Free	Save drive	(s) list :		
	DVN	Ο.	Clave drive	Remaining Dr
	NSCVT	×	ZANSDVE	9.050GD
	DVE	Π	ZADVE	9.358GB

• 2WAY AUDIO : Audio communication between CMS and DVR available.

Click 'AUDIO CHAT' button on CMS, and select DVR name to talk, then, click 'Talk' button to send

* request to DVR site: Audio chat button will be flashed on/off on DVR site by requesting audio communication from CMS.

· · · · · · · · · · · · · · · · · · ·		
Lype	II*Address	status
NS-DVR	192.168.0.76	Disconnect
NS-DVII	192,160,0,192	Disconnect
DVR		
NS-DV	'n	
152.16	an 102	
(Second		
Discur	inicol	
	DVR NSDVR NSDVR NSDVR NSDVR NSDVR NSDV 10210 Discor	1)954 11*4459931 NG-VVF 122:158,076 NG-VVF 122:102.072 122:102.072 122:102.072 122:102.072 122:102.072 122:102.072 122:102.072

• Setup the port for 2way audio communication. Control the setup and volume of

microphone by volume button.

CD Player	Microphone	Line In
Balance: D 4	Balance:	Balance:
Volume:	Volume:	Volume:
	✓ <u>S</u> elect	Select

Digital-Clock : 2005-0-28 / HU 23

It represents the date of CMS system. Display format can be changed.

System Utility

b Search

Search : access to various search mode, general search, special search (real time, multi time, day search), object search etc.

🗕 Setup

•Setup : Setup on CMS system.

💣 E-Map

• E-Map : Monitor the position of DVR, Camera, Sensor, and Control through E-MAP.

🙀 Log Viewer

• Log Viewer : Check 'Log file' in the CMS system by clicking the button.

👌 Log out

Logout : log in or out, shutdown, EMC Standby , cancel the program.

Default User ID : administrator / Password : 1234 Ask administrator or dealer if you forgot ID or PW.

CMS – Setup Mode



Setup

CMS Setup (v4, 1, 10, 101	4)				
CMS Setup (v4, 1, 10, 10) Image: Constraint of the setup	4) Registeric user ist ADMINISTRATOR	Vy I nage.	User name Password E-mail User gloup Pivlege	Administrator	[Aa-22, U-9]
			Nogister m	5// USCI	Close

•USER : make the user group with different privilege. Default is 'ADMINISTRATOR'.

- Registered user list : It represents the group of registered users.
- Register new user : Register new user : click this button to add new user, and click 'Apply'.
- Privilege : you can assign different privilege to each user.
- My image : change the image with that you prefer such as company logo.

CMS Setup (v4, 1, 10, 101-	4)			
	DV/D Satura			
	DWIJeup			
	Registered DVR list (2 DVR)		IP address of my computer	192 168 0 123
			-Туре	,
UVH Setup	DVR name	DVR IP	DVR name	NSDVR
3		192 168 0 76		
DISPLAY	野_DVH	192.168.0.132	DVR Info	STANDALONE DVR_NS
			Data port	7621
			Stream purt	7622
Save drive			Device	ETHERNET
🧕 ЕМС			Device name	Realtek RTL8139 Family PCI Fast Ethernet NIC
			Connect by Ethernet –	
			C DOMAIN	
			OVR IP	132 . 168 . 0 . 76
	Conn. Setting	Name 1/0		Edit DVR
	DVR Info	Version	Add DVR	Delete
				Close

• DVR Setup : setup the network connection.

• Registered site list : It represents registered DVR LIST.

• IP address of my computer : It represents IP information of CMS System.

•DVR Info : Input the information of Network connection as DVR is registered.

Add site : Input Site name, DVR Type, PORT, and Site IP.

DVB name	1.41
Divitinging	Tear
DVR Type	STANDALONE DVR_NS
DATA PORT	7621
STREAM PORT	7622
Device	ETHERNET
Device name	Broadcom NetLink (TM) Gigabit Etherne Packet Scheduler Miniport
Connect by Etherne	
Connect by Ethernel	
Connect by Etherne	192 , 168 , 0 , 141
Connect by Etherne C DOMAIN C DVR IP	1 192 , 168 , 0 , 141 Edit DVR

- **Delete** : click it to remove the registered site.
- Edit site : edit setup information.
- Conn. Setting : it is for modem connection setup. You should setup Modem on OS, and this button will be enabled. Adjust the time for retrying connection. If there is no response from the site system, the system will retry connection as you set up.

Retrying count	3	•
Retrying interval	8	•
No response interval	30	•

• Name I/O : you can change the name of sensor and control. Double click 'Enter name', and it will be enabled to put the name.

ensor name		
Sensor name	Sensor	^
Enter name	Sensor #1	
Enter name	Sensor #2	
Enter name	Sensor #3	
Enter name	C	
E	Sensor #4	~
ontrol name	Sensor #4	~
ontrol name Control name Enter name	Control	~
ontrol name Control name Enter name Enter name	Control #1 Control #2	~
ontrol name Control name Enter name Enter name Enter name	Control #1 Control #1 Control #3	~

MS Version		SITE Version	Send site-version	
	Version		Version	1
Calendar.dll	2, 1, 6, 905	Calendar.dll	2, 1, 6, 905	T
ClientRes.dll	3, 1, 6, 1009	CPTZ.dll	1, 1, 6, 926	
CSocket2.dll	2, 0, 6, 706	cRs232.dll	1, 0, 6, 221	
DDvpe.dll	1, 0, 4, 521	CSocket2.dll	2, 0, 6, 706	
DVRCODEC_Interface.dll	1, 0, 5, 1021	CVidFilter.dll	1, 0, 4, 216	
DVRDiskI0.dll	3, 0, 6, 922	DVRBoard.dll	3, 0, 6, 1010	
LangRes.dll	1, 1, 6, 920	DVRCODEC Interface.dll	1, 0, 5, 1021	
Datal0.dll	3, 0, 6, 911	DVRDiskI0.dll	3, 0, 6, 922	
DVRSETUP MANAGE	3, 0, 6, 1011	DVRSETUP MANAGE	3, 0, 6, 1010	
iil20.dll	2.0.15.47	LangRes.dl	1, 1, 6, 920	
EMapSkinRes.dll	2, 0, 5, 420	LogoRes.dll	1, 1, 2, 1024	
EMV_DLL.dll	2, 0, 6, 907	PtzRes.dll	3, 0, 6, 926	
CPTZ.dll	1, 1, 6, 926	SiteSkinRes.dll	3, 0, 6, 1009	
PtzRes.dll	3, 0, 6, 926	DVR Site.exe	3, 0, 6, 1009	
DVDWriter.dll	2, 0, 1, 1210	audio.dll	3, 0, 6, 922	
GDIPlus.dll	5.1.3102.2180	cooker.exe	1.0.5.1222	
		cookerDil dil	1001	1

• **Show versions :** shows the version of CMS currently using, click 'Send site version' to show the information of site version.

• **DVR Info.:** shows the information of connecting site, program version, time, capture card type, the number of sensor and control.

SITE-100 Info.	
Version	1.0.6.6
Site timezone	GMT+09:00 Korea Standard Time
Board Type	32 channel 480 FPS Rev. 1.255.0
Sensor	16
Control	16

Display

N50%R N50%R N50%R N50%R N50%R N50%R N50%R N50%R N50%R N50%R N50%R N50%R N50%R N50%R N50%R N50%R N50%R N50%R D50%R 0%R 0%R 0%R 0%R	Can 011 Can 02 Can 02 Can 03 Can 05 Can 05 Can 06 Can 07 Can 08 Can 09 Can 09 Can 01 Can 12 Can 13 Can 13 Can 13 Can 13 Can 14 Can 01 Can 03 Can 03 Can 03 Can 04 (Van selec)	Nane DVR Group1	Pre-memorize Pre-memorize †000 Pre-memorize †000
N 30V-R N 30V-R D 0V-R 0V-R 0V-R 0V-R 0V-R 0V-R 0V-R 0V-R	(ran 02) Can 03) Lan 041 Can 051 Can 051 Can 051 Can 071 Can 071 Can 091 Can 091 Can 091 Can 091 Can 31 Can 31 Can 31 Can 041 Can	Name DVR Group1	Pre-memorize Pre-memorize 1000
N DVH N DVH N SDVH N SDVR N SDVR DVR DVR DVR DVR DVR DVR DVR DVR DVR	Can 00] Lan 04] Can 06] Can 06] Can 07] Can 08] Can 09] Can 01] Can 30] Can 30] Can 31] Can 03] Can 04] (Non select) (Non select)	Name DVR Group1	Pre-memorize Pre-memorize 1000
N-30%H N-30%R N-30%R N-30%R N-30%R N-30%R N-30%R N-30%R N-30%R N-30%R N-30%R N-30%R D-0%R D-0%R D-0%R D-0%R D-0%R D-0%R D-0%R	Lan U4, Can 05, Can 07, Can 07, Can 08, Can 09, Can 09, Can 09, Can 10, Can 11, Can 12, Can 3, Can 4, Can 04, (Van selec) (Van selec)	Name DVR Groupt	Pre-memorize Pre-memorize +000
N 50V-R N 50V-R N 50V-R N 50V-R N 50V-R N 50V-R N 50V-R N 50V-R N 50V-R 0V-R 0V-R 0V-R 0V-R 0V-R 0V-R 0V-R	Can 06 Can 07 Can 07 Can 08 Can 09 Can 09 Can 09 Can 10 Can 31 Can 31 Can 31 Can 31 Can 31 Can 01 Can 02 Can 03 Can 03 Can 03 Can 03 Can 04 (Van select) (Van select)	DVR Group1	Pre-nemorize +000 Screen #UI
N50VR N50VR N50VR N50VR N50VR N50VR N50VR N50VR N50VR N50VR N50VR DVR DVR DVR DVR DVR DVR DVR DVR DVR	Can 06 Can 08 Can 08 Can 09 Can 09 Can 01 Can 12 Can 12 Can 3 Can 3 Can 6 Can 6 Can 02 Can 03 Can 04 (Non select) (Non select)	Screen Into	Screen # UI
N 20VR N 30VR N 50VR N 50VR N 50VR N 30VR N 30VR N 50VR N 50VR D VR D VR D VR D VR D VR D VR D VR D	Can 07] Can 08] Can 09] Can 09] Can 10] Can 11] Can 11] Can 12] Can 31 Can 4] Can 6] Can 01] Can 03] Can 03] Can 03] Can 03] Can 03] Can 03] Can 04] (Van select) (Van select)	Screen Intc	Screen #UI
N 30VR N 30VR N 30VR N 30VR N 30VR N 30VR N 30VR N 30VR N 30VR D VR D VR D VR D VR D VR D VR D VR D	Can 08 Can 09 Can 10 Can 11 Can 2 Can 3 Can 3 Can 4 Can 5 Can 6 Can 01 Can 03 Can 03 Can 03 Can 04 (Nor select) (Non select)	Screen Inte	Screen # UI
N 20VR N 30VR N 30VR N 30VR N 30VR N 30VR N 30VR D VR D VR D VR D VR D VR D VR D VR D	Can 09 Can '0 ≡ Can '12 Can '2 Can '2 Can '3 Can '4 Can '6 Can '6 Can 01 Can 02 Can 03 Can 04 (Van selec) (Van selec)	Screen Inte	Screen # UI
N30VR N30VR N30VR N30VR N30VR N30VR N30VR 0VR 0VR 0VR 0VR 0VR 0VR 0VR 0VR 0VR	Can '0 = Can '1 Can '2 'Can '3 Can '4 Can '4 Can '6 Can 0 Can 00 Can 03 Can 03 Can 03 Can 04 (Noriselect) (Non select)	Screen Into	Screen #UI
N30VR N30VR N30VR N30VR N30VR 0VR 0VR 0VR 0VR 0VR 0VR 0VR 0VR 0VR	Can '11 Can '21 Can '31 Can '41 Gan '51 Can '61 Gan 011 Can 021 Can 031 Can 041 (Van select) (Van select) (Van select) (Van select)	Screen Inte	Screen # UI
N30VR N30VR N30VR N30VR DVR DVR DVR DVR DVR DVR DVR DVR DVR D	Can * 2] Can * 3] Can * 3] Can * 4] Can * 6] Can 01] Can 03] Can 03] Can 03] Can 03] (Von select) (Von select) (Von select)	Screen Into	Screen #UI
N50VR N50VR N50VR DVR DVR DVR DVR DVR DVR DVR DVR DVR D	Can '3] Can '4] Can '5] Can '5] Can 0] Can 02] Can 03] (Can 03] (Can 04] (Non select) (Non select)	Screen Into	Screen #UI
N 20VFI N 50VFI DVFI DVFI DVFI DVFI DVFI DVFI DVFI D	Can '4 Lan '5 Can '5 Can 01 Can 02 Can 03 Can 04 (Vorselec) (Vorselec) (Vorselec)	Screen Into	Screen #UI
N 50%H N 30%R DVR DVR DVR DVR DVR DVR DVR DVR DVR DV	Lan '51 Can '61 Can 021 Can 021 Can 03 Can 04 (Norrsetec) (Non selec) (Non selec)	Screen Into	Screen #UI
NB0VR DVR DVR DVR DVR DVR DVR DVR DVR DVR	Can 16 Can 01 Can 02 Can 03 Can 04 (Non selec.) (Non selec.) (Non selec.)	Screen Into	Screen #UI
DVR DVR DVR DVR DVR DVR DVR DVR DVR	Can 011 Can 021 Can 031 Can 041 (Vori selec.) (Vori selec.) (Vori selec.) (Vori selec.)	Screen Into	Screen #UI
DVR DVR DVR DVR DVR DVR DVR DVR	Cam 02 Cam 03 Cam 03 (Cam 04 (Non seleo:) (Non seleo:) (Non seleo:)	Screen Into	Screen #UI
DVR DVR DVR DVR DVR DVN DVN	Cam 03 Cam 04 (Num seleut) (Num selent) (Num selent) (Num selent)	Screen Info	Screen #UI
DVR DVR DVR DVR DVR DVR	(Cam 04) (Norriseled) (Non selent) (Non select) (Non select)	Screen Into	Screen #UI
	(Non selec.) (Non selec:) (Non selec:) (Non selec:)	Justini	Screen # UI
DVR DVN DVR	(Non select) (Non select) (Non select)		Screen #UI
DVN DVR	(Non select) (Non select)		Scieen # OI
DVR	(Moniselect)		
AL US	(401100100.)		
VVH	(Non selec:)	LWB name	MSDVB
DVH	Non selec:	o minano	
DVR	(Non selec:)		C (())
DVR	(Non selec:)		CHAR
DVR	(Non selec:)		PTZ info
DVR	(Non selec:)		
DVR	(Non select)		
DVR	(Nun selec.)	Camera	Com Of
(Non select)	(Non select)	Como a	carror
(Non seect)	(Non selec:)		
(Non select)	(Non select)		
(Non select)	(Non solee:) 👿		
	DVR DVR DVR DVR I (Non seet) (Non seet) (Non seet) (hon seet)	DVR (Von selec) DVR (Von selec) DVR (Von selec) DVR (Von selec) DVR (Von selec) (Non seect) (Von selec) (Non seect) (Von selec) (Non seect) (Von selec) (Non sect) (Von selec) (Non sect) (Von selec)	DVR (Non selec) Camera (Non selec) (Non seet) (Non selec) (Non seet) (Non selec) (Non seet) (Non selec) (hon seet) (Non selec) (hon seet) (Non selec)

• **DISPLAY** : It represents CMS DISPLAY SCREEN and setup information on the LIST.

• Setup Pre-Memorize : Display list can be generated by clicking "+" and "-" after setup display.

• SCREEN Info : Select DVR name and camera after selecting Display List to monitor the appropriate image.

• PTZ info Check the information of PTZ setup of each DVR.

OTTE TOO			
PTZ connecti Camera #	on info PTZ Name(Address)	Baud rate	Protocol
camera 14	AMERICANDYNAMI	4800	RS485

♦ SCHDULER

DVR Setup TEST N ISPLAY PINNALLEM N BS CHEDULER PINALEM N Sove drive PIP044 PIP044 PIP044 PIP044 PIP044 PIP044 PIP044 PIP044 PIP044 PIP044 PIP044 PIP044 PIP044<	USER USER	SCHEDULER DVR name																	мор	E						1	
ALL 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 22 23 24 22 24 <t< th=""><th>DVR Setun</th><th>TEST NI-S100</th><th><u> </u></th><th></th><th>DVR</th><th>name</th><th></th><th></th><th></th><th></th><th></th><th>S</th><th>ITE-1</th><th>100</th><th></th><th></th><th></th><th></th><th>F</th><th>1</th><th></th><th></th><th></th><th></th><th>_</th><th></th><th></th></t<>	DVR Setun	TEST NI-S100	<u> </u>		DVR	name						S	ITE-1	100					F	1					_		
DISPLAY P1-04-2 P1-04-2 P1-04-2 P1-04-2 P1-04-2 P1-04-2 P1-04-2 P1-04-3 P1-04-4		PINNACLEM NS-5016	ALL	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	2
VOLGAN P1:04-3 P1:04-4 P1:04-4 P1:04-4 P1:04-4 P1:04-4 P1:04-4 P1:04-4 P1:04-5		IP1-04-1 IP1-04-2	MON,	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
SCHEDULER IP:2041 IP:2043 Save drive IP:2044. IP:2044. Save drive IP:2044. IP:3042 IP:3044. IP:3044. IP:3044. IP:4022 IP:3044. IP:4022.1 IP:4022.1 IP:4022.2 IP:4022.1 IP:4022.1 IP:402.1	DISTERI	IP1-04-3	TUE,	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
SCHEDULER SITE 1000 IP2044.3 IP2044.3 IP2044.4 IP3044.1 IP3044.1 IP3044.1 IP3044.4 IP4022.1 IP3044.4 IP4022.1 IP3044.4 IP4022.2 IP3044.4 IP4022.1 IP3044.4 IP4022.1 IP402.1 <t< td=""><td>1</td><td>IP1-04-4</td><td>WED,</td><td>R</td><td>R</td><td>B</td><td>R</td><td>B</td><td>B</td><td>B</td><td>R</td><td>R</td><td>R</td><td>R</td><td>B</td><td>B</td><td>B</td><td>R</td><td>B</td><td>R</td><td>R</td><td>R</td><td>R</td><td>B</td><td>B</td><td>B</td><td>B</td></t<>	1	IP1-04-4	WED,	R	R	B	R	B	B	B	R	R	R	R	B	B	B	R	B	R	R	R	R	B	B	B	B
Save drive IP20444 IP3042 IP3042 </td <td>SCHEDULER</td> <td>SITE-100 IP2-04-3</td> <td>THU,</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>B</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>B</td> <td>R</td> <td>R</td> <td>B</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>R</td> <td>B</td> <td>B</td> <td>B</td>	SCHEDULER	SITE-100 IP2-04-3	THU,	R	R	R	R	R	B	R	R	R	R	R	B	R	R	B	R	R	R	R	R	R	B	B	B
> Save drive IP3042 IP3043 IP3043 SAT. B	1	IP2-04-4	EBI.	B	B	B	B	B	B	B	B	R	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
EMC 0THER () 0THER () 0THER	Save drive	IP3-04-2	SAT.	R	R	B	R	R	B	B	R	R	B	B	B	B	B	B	B	R	B	B	B	B	B	B	R
EMC P4021 P4022 N1-200	Ϋ́	IP3-04-3 IP3-04-4	SUN.	R	R	R	R	R	B	R	R	R	R	R	B	R	R	R	B	R	R	R	R	R	R	R	R
	OTHER	■ IP4-02-2 NI-200																									

- **DVR list** : shows a list of registered DVR.
- Recording Schedule : setup save schedule for the selected DVR from the DVR
 - Select DVR to save from DVR List.
 - Drag or click to select the date/time to change the schedule.
 - Click 'R' (Recording), 'N' (Not Recording) buttons to change the schedule.

SAVE DISK

CMS Setup (v4, 1, 10, 1014)					
Sa USER	ve Drive - Installed drive(s) list :				
DVR Setup	N	ame	Type Remaining	Drive Spac	 C Network Drive
bisplay					Network Drive Add
Save drive	Add Disk	Delete Disk			
ЕМС	Save drive				
OTHER	N	ame Ren	naining Drive Spac	Working-on	
	D E F	₩ ₩	72 5 19	U X X	
					I✓ Recycle drive
					Close

- Install drive(s) list: shows a drive list of CMS system.
- Save drive: shows the list of drives to DVR data, transmitted to CMS.

Setting up 'Local Drive'

- 1) Select a drive to save data from 'Installed drive(s) list'
- 2) Click 'Add Disk' button to add it as 'Save drive'.

you can use 'Recycle drive' function when you added more than 2 drives.

Setting up 'Network Drive'

- 1) Checkmark 'Network Drive' and click 'Network Drive Add' button.
- 2) 'Network Drive' will be generated. Then, Click 'Add Disk' button to add it as 'Save drive' from the list.

You cannot use 'Recycle drive' function.

HISEB	DVB name	Enable	EMC Auto pop-up
U COLLI	153	Sensor/C	ontrol Monitorina screen
	121	0.000 500 500 500 500 500 500 500 500 50	X X
DV/P Colum	154	Sensor/Control/N	1otion Monitoring screen
Unit occup	155	h	fotion Single screen
		Sensor/E	iontrol X
	HANIL		-0
DISPLAT			^^
SCHEDULER			
Save drive			
🏹 емс			
OTHER	155 : 192.168.0.155 (ETHERNET No save drive exists.)	
	EMC camera #1 #2 #3 #4		
	Finable EMC		
		Auto pop-up	Enable alarm sound
	Sensor or Control	C Monitoring screen	
		g	🚔 *.wav
	I Motion	Single screen	

EMC (Emergency Management Center)

- **EMC mode** : when the emergency event happen on the site, the event image is sent to CMS system automatically with multiple or single screen.
- Enable EMC : checkmark to enable EMC. Select the event mode either by motion or by sensor or control.
- Auto pop-up : when EMC is activated by motion or sensor/control, the event will come up with monitoring screen or single screen.
- Enable alarm sound : checkmark to enable alarm sound when EMC is activated. Open the

folder and select wave file.

• EMC activation : after setup is completed, go to monitoring mode. Click 'log out' button, and you can see 'EMC standby' button. Select it, it will go to EMC mode. EMC icon will be generated on the right corner of the bottom.

When EMC mode is activated by motion or sensor/control, the event screen will automatically pop-up, and the icon will be turn in red.

Log-Out User administrator is logged on. Logon Date : 2006-10-12 23:45:0 (connecting time : 0-0-1 65512:53:8) Log Out Exit Shutdown EMC Standby Cancel	Log out			
User administrator is logged on. Logon Date : 2006-10-12 23:45:0 (connecting time : 0-0-1 65512:53:8) Log Out Shutdown EMC Standby Cancel	Log-O	ut		
Shutdown EMC Standby Cancel		User administrator is Logon Date : 2006-10	logged on. I-12 23:45:0 (connecting time	e: 0.0-1 65512:53:8)
Shutdown EMC Standby Cancel	100		Log Out	Exit
		Shutdown	EMC Standby	Cancel
				innononononononononononon



•EMC single screen pop-up : automatically pop up with site name and camera number.

Open monitorin	g screen
Open event me	ssage box
Close EMC	

Setting up OTHERS

CMS Setup (v4, 1, 10, 1014)		
	F OPTION F Todlig Todlig	Restore setting value from fatest registry backup, the
	Digiclock display format	
	O MYCL (rear womn usy) O MYCL (rear womn usy) ODMK AMYY (Day - Mrnh - Year) ODMK AMYY (Day - Mrnh - Year) Oddel Seup Sourceson	Sand list moscage to recycle bin
SCHEDLLER		Beckup Lon
Save dive		Logexput
🌺 емс	- Auto Reconnection	- Awlo Logen
	No response interval : 10 - (soo) Retuying count : 1 - Trme	Auto Cennot Pio Norroizo Auto Full Statem Auto Full Statem Auto Full Statem Auto I ogon As edministrator
	_	
	Serisar	C Dees
		Close

- Tool Tip : shows function explanation if you put the mouse on the function key.
- Digi-Clock display format : select display format of digital-clock.
- Motion Detection Setup: shows the motion detected area if the transmitted dada is motion Event.
- **Restore :** in case of system shutdown, changes in system setting value or other functions, you can restore the latest setting value.
- Send list-message board to recycle bin : send the all messages on 'Message board' to recycle bin.
- Log export : shutdown all the generated log files.
- Auto reconnection : if network is unstable and disconnect for a period of time, CMS retry connection with site system. Adjust waiting time and retrial count.
- Auto Logon : Connect to Pre-Memorize data automatically when user Log in on CMS. (Log in account must be selected)
- Alarm : Beep out or specified wav file output when sensor or motion detected.

Remote Setup

♦ Camera

OUR Less Pre-memoize #000 Image: Carnesa in the second se	Camera name CAMO1 Audio Mapping NONE Noim Dated Selic Motion Area C All @ Part Sensitivity 5
DVR Tps::: 101 DVR Tps::: 15AIDALONE.NS IP-Addres: 192:182 2101 Connecting status: Connected Connes Court: 16 Senso Court: 16 Control Cour	Hue U P/T/Z BigHtness 0 P/T/Z PELCO_D V PTZ address. 1 PTZ Baudrate 95LU V /ppl/

- Camera list : shows camera list installed on the site, and you can make the setup on the network. Select a camera to setup.
- Camera name : change the camera name, and adjust color, brightness, contrast of the camera.
- Use Motion : select the full or part of motion area, and also control motion sensitivity.
- Color : control color, bright, and contrast.
- Use PTZ : select PTZ and put the address and PTZ Baudrate.

Record speed

[DVR] Remote a	setup										
CAMEBA	F REC.	PEED									
PROPERTY		CAMERA IMAGE SIZE EVENT REC NORMAL								IAL REC	_
SENSOR		CAMERIA	IMAGE S	512E	QUALITY		FRAME RATE	QUALIT	ſY	FRAME RATE	
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		CAMERA 02	FULL	-	BEST	•	30 💌	BEST	-	30	•
		CAMERA 03	FULL	-	BEST	•	30 💌	BEST	-	30	•
		CAMERA 04	FULL	-	BEST	•	30 💌	BEST	-	30	•
		CAMERA 05		-	-	7	_		-		-
		CAMERA 06		-	·	-	-		-		~
		CAMERA 07		-	·	-	-		-		-
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		CAMERA 11		-		~	-		-		~
		CAMERA 12		-		~	-		-		~
		CAMERA 13		-	,	7	-		-		*
		CAMERA 14		-	,	7	-		-		v
		CAMERA 15		-		-	_		-		*
		CAMERA 16		-		-	_		-		*
									-		1
										Apply	
									Г	~	
									L	Close	

1) Image size : select image size for recording.(EVENT REC / NORMAL REC)

2) Individual camera recording setup : select image size, quality, frame rates for each camera.

101] Remote setup CAMERA REC.SPEED SCHEDULER SENSOR SYSTEM SCHEDULER CAMERA 01 CAMERA 02 CAMERA 03 CAMERA 04 CAMERA 05 CAMERA 06 CAMERA 07 CAMERA 08 CAMERA 09 CAMERA 10 CAMERA 11 CAMERA 12 CAMERA 13 CAMERA 14 CAMERA 15 CAMERA 16 Select Al 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 SUN MON TUE WED 1 THU FBI SAT احتواد والاتواج والاتواج والاتواج والا NONE CONTINUE EVENT Apply Close

♦ SCHEDULER

1) Recording schedule : select a date of a week, and setup recording schedule. Selected value will be shown in red mark. Click 'All' to apply the same setup for all cameras.

♦ SENSOR



• Map sensors to cameras, and select the sensor type.

♦ SYSTEM

[DVR] Remote se	etup
CAMERA PROPERTY	OTHER
SCHEDULER SENSOR	DVR name DVR
SYSTEM LOGILIST	Version 100915.tovi_c04
	C Setup Import Export
	NETWORK
	DVR IP 192 . 168 . 0 . 132
	Subnetmask 200 . 200 . 200 . U
	Baud rate unlimited
	Net liser User name(D) NetUser
	USER2 USER2 USER3 Password
	USER4
	Register new user Delete Change password
,	CAMS Setup Time setup Apply
	Close

- DVR info : shows the connected DVR information such as DVR name, program version.
- Network info : shows network connection information such as IP address, subnet mask, gateway.
- User info : shows user list of the connected DVR. You can change password, register new user, and delete user.
- Network Transmission Speed : Setup Network transmission speed.
- CAMS Setup : setup for CAMS monitoring.
- Time setup : setup for DVR time (Manual input input the time manually. Client time setup – synchronize the DVR time to CMS server time)

♦ LOG LIST

CAMERA PROPERTY SCHEDULER SINSOR Select Date 2010-10-18 SYSTEM LOG LIST Image: Constraint of the select of the sele			
CAMERA PROPERTY SCHEDULER Select Date STSTEM Image: Control of the second			
PROPERTY SCHEDULER SCHOULER SYSTEM LOG LIST Select Date 2010-10-18 Select Date 2010-10-18			
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Search			
		Fuport	
		Close	

- LOG LIST : search for DVR event log.
 (System, HDD, Record, DB, Process, Network, Motion, Sensor, V-loss, Blind)
 - Select data on the calendar.
 - Select event type and click "Search" button.
 - Event search result will show up on log list window on the right side.

CMS – Search Mode



Search Mode



• Playback screen : displays playback image of the screen.

• **Digi-clock/ Calendar :** digi-clock shows current system time. The date which has save data is shown with different color. Select the date to search, and then, system will start to load data.

• Search : select a folder to search data.

•**Time table :** after data loading is completed, the data save location will be shown on the time table. You can select camera and time to playback.

• System Utility buttons : access to 'Special Search' and 'Save' function. 'Special Search' provides 'real player', 'multi time player', 'day search', 'object search'. Click 'OPEN', it provides more search conditions. Therefore, you can do more detailed search effectively.

• Screen division/Playback scroll : it provides various screen divisions, and 'playback scroll' shows the progress of data playback.

• Audio playback speaker : playback Audio data.

• **Camera number :** when you use 'special search', this camera number bar will show up. Click any camera you want to playback.

Playback Screen

• **C10(Camera 10) :** 'C10' is screen number, 'Camera10' is the camera name of save data.

• x 1: shows how many times the picture zoomed in. Move the mouse on a screen, and double click the right mouse button to select. You can playback the single screen or zoom in the image up to 5 times (x5). If you want to go back to the 16division mode, double click the right mouse button.

• **00:00:00:093 :** hour: minute: second: millisecond (recording mode) .

• (M): Indicates event mode. Please see below event mode for the each letter.

(C): Continuous Recording (M): Motion detect Recording(I): Intelligent Recording (S): Sensor detect Recording

Digital-Clock / Calendar

- Digtital-Clock : displays the current time of the system.
- Calendar : the date has save data is showed in orange color. If the date is selected, it is shown in white square box.
- **i** indicates today's calendar.

Search

•SEARCH : Select the button to search the saved data.

Select the folder.

🖕 Search			
	Viewer		
	Change PW	Browse for Folder	? 🛛
	Password :	Choose a folder	
	OK Canc	Image: Constraint of the second se	
^r De	efault password is <u>1234</u>	<u>і4</u> . ј ок са	incel





Time table

• When you click 'Search' button, the system is loading the save data, and the data save location will be shown on the time table with different color of the event. Double click each cell to playback the data.

	. 00	05 10 15 20
-	5 10 15 20 25 30 35 40 45 50 55	03 10 13 20
Camera 1		
Camera 2		
Camera 3	Beeee	
Camera 4		ind i <mark>ncons</mark> ind ini

- Camera zone : displays all cameras installed on the system.
- Hour zone : select hour from 00 to 23.
- Minutes zone : select minute from 00 to 59.
- Event data cell : each event data cell indicates different recording mode, so you can find the event mode easily on the time table.
 - : (Blue), Instant recording
 - : (Light blue), Pre-Recording : (Violet), Intensive/sensor
 - recordina
 - I: (Brown), Intensive/motion recording
- : (S- light red), Audio recording
 : (Pink), Sensor recording
- : (Red), Continue recording
- : (Yellow), Motion recording

Screen division buttons / Playback scroll bar

•You can select the screen division button and control bar as below.



System Utility buttons

Speed, Zoom in/out,

Speed : Playback speed controller (from 1 to 5 levels.)

Zoom : Playback Zoom in/out controller

Brightness : Screen brightness controller



Playback control buttons :



Special search : click 'Special search' button, and open the 'sub menu' to access to the
 advanced search tool, Real time player, Multi time Player, Day search,

Object Search.

•General search : you can set as 'continue, motion, sensor, instant, pre-recording, audio, intensive, all'.



•Save : click to save the data as JPEG, AVI, price format. Data will be saved with viewer, so it will auto-run and you can view it on any PC without special program.

	4 7			
SAVE	AVI Backup		Camera CAMERA 1 📑 🔽 Save Audio	
			Time setting Hour 2010-10-18 15 ± : 38 ± Duration 1 ± 001 min	
	(#1) Save file Info. [] []:\\C\\C\\S_2KV3	2010-10-10 15:38:33	20101018_1538_#1	
	Please set starting time WaterMarking setup Ø Apply watermark	king technology	0 /5,785MB	
			Close.	

•Camera : select a camera. Save Audio data

•Time setting : setup the time of the data which you're going to save. Click the calendar on the right. It will show the data saved calendar. The data saved date will be 'blue block'. Check the date and it will show the hour and minutes of the first saved data.

•Preview : preview the save data before data save process.

•Save file folder : you can select the folder to save. Click the folder icon on the left, it shows all the folders to save. Default is C:\DVR_Site2, and file name is the time of data save. It can be changed by administrator.

•Size of save device : displays total size of data, you can calculate the device capability.

•Watermarking setup : check it to apply watermarking technology. In case of watermarking is applied and created saved file, there will be another watermarking applied file saved in saving folder(C:\DVR_Site2).

Save format : you can select the format of data save among JPEG, AVI, Print.

Special Search

1) Real Player : You can search the audio data.



- 2) Multi time Player : you can playback the data on the multiple time zone on the same playback screen.
- 3) Day Search : you can search a day of data(00:00~23:59) per camera by hour, by minute. For example, if you want to see the data by minute, select one screen of specific time by mouse double click,

If you want to go back to the previous step, click 'RETURN' icon.

** Not Found' will be shown if there is no data on that time zone.



4) Object Search : you can quickly search movement or missing of an object on the specific zone. Select a camera to search and then click 'scan button'. Drag to designate the area to search.



•Sensitivity : select the sensitivity from 0 to 24. Default is 13.

•SEC/MIN : select search by minute or by second.

- > **Time Scope** : setup searching time.
- **Scan button:** click the button when you designate the area, and click again to start search.
- Result : search result will be shown. Click each result to check the movement. If you click playback control button, you can do normal playback.

Remote Search



•Remote Search : search the saved data on DVR sites.

• Playback screen : displays playback image of the screen.

• **Digi-clock/ Calendar :** digi-clock shows current system time. The date which has save data is shown with different color. Select the date to search, and then, system will start to load data.

• **Time table :** after data loading is completed, the data save location will be shown on the time table. You can select camera and time to playback.

• System Utility buttons : provides 'real play' for event search and audio playback.

• Audio playback speaker : playback Audio data.

• Recording event : Search by event. It playbacks only the selected event data if you checkmark 'Event Mode'.

V	Continue		Motion	
	Sensor		Instant	
	Intensive(Moti	on)	
	Intensive(Sens	or)	
2	All select	: 		
	Real-1	Time	Play	

• Real-Time Play : playback 'Audio' and 'Video data' in real time.(PCDVR Only)



Chapter 7 🚫 E-MAP Editor / Viewer

- E Map: EMAP using pictures or images can be monitored.
 - * There are 2types like CMS Map and Site Map on the E Map



1. CMS E-MAP creation and editing.



1) Click 'start \rightarrow E – Map'. When E – Map executes, default CMS E-MAP(CMS.emp) file will open.

2) E – Map should be saved to C:\CMS_2KV3\emap. Basically, CMS E-Map (4 areas are registered as an example.)
Each of the internal file name is CMS.emp and SITE-100.emp.

If there is no CMS.emp file or Site name and Site Map name does not match, Warning message will pop up as below.

(When you run first time, there is default E-Map (CMS.emp) so the warning message will not pop up.

	E-Map Viewer -	Editor
	DVR	
WARNING !		
C:\CMS_2KV3\emap\CMS.emp Can't open the file.	•	
<u> </u>		

3) Click 'OK'. E – Map Viewer will open and then click 'Editor'.

(To create and edit E – Map, click 'Editor'.)

Tip : Although you can create both CMS map and Site map as required, existing site name and generate site name must be the same.

Basically, CMS.emp file can only exist. So when you run Start \rightarrow E – Map, CMS MAP with CMS.emp only runs, so if you want to create new CMS map, you must delete existing CMS.emp files as an example with 4 area picture. And then you can register pictures.

* Please note that CMS Map should be registered at least one map. How to add map. Editor \rightarrow EDIT MAP \rightarrow DELETE MAP \rightarrow ADD MAP.



4) This picture shows when running Start → E – Map → Editor. To edit CMS map, if you use one of 4 images on CMS map, CMS Map image with CMS.emp will appear when you click the top right of the tab.



5) After selecting an unnecessary map, click Edit \rightarrow DELETE MAP, and then File \rightarrow SAVE.



*File menu

6) Click the File tab of the main menu.

File (There are 2 types image files format like Bitmap and JPEG to use to E – Map Editor.)
 NEW : Open new image file
 OPEN : Open old E – Map(*.emp) file or new image file
 SAVE : Save files
 SAVE AS : Save as another name
 CLOSE : E - Map and image file close
 EXIT : End E - Map Editor
	DVB Setup				
USER	Registered DVR list (1 DVR)		IP address of mv computer	192 168 0.131	
DVR Setup	TX D/P mms		Туре		
	144	192,168,0,144	DVR name	144	
			DvH inro		
			Stream port	7622	
Save drive			Device	ETHERNET V	
EMC			Device name	Atheros L1 Gigabit Ethernet	
			Connect by Ethernet	10/100/1000Base-1 Controller - 11-22 - 22	
OTHER			C DOMAIN		
			OVB IP	192 . 168 . 0 . 144	
			-		
	Conn. Setting.	Name I/O		Edit DVR	
	DVR Info	Version	Add DVR	Delete	
		L.			
E-Map Editor C	:#CMS_2KV3#emap#CM	IS.emp			
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E-Map Editor C File Edit M Camera C Control C Bensor C	::#CMS_2KV3#emap#CM Aap Mode View Abou	IS.emp t			
E-Map Editor C File Edit M Camera I Control I Sensor I Virtual I	::#CMS_2KV3#emap#CM Aap Mode View Abou	IS.emp t			
E-Map Editor C File Edit M Camera C Control C Bensor C Virtual C	::#CMS_2KV3#emap#CM Aap Mode View Abou	IS.emp t			
E-Map Editor C File Edit M Camera I Control I Bensor I Virtual I Site I	::#CMS_2KV3#emap#CM Aap Mode View Abou	IS.emp t			
E-Map Editor C File Edit M Camera C Control C Bensor C Virtual C Site C	::#CMS_2KV3#emap#CM Aap Mode View Abou	IS.emp t			
E-Map Editor C File Edit M Camera I Control I Sensor I Virtual I Site I	::#CMS_2KV3#emap#CM Aap Mode View Abou	IS.emp t			
E-Map Editor C File Edit M Camera I Control I Bensor I Virtual I Site I Site Info I	::#CMS_2KV3#emap#CM Aap Mode View Abou	IS.emp t			
E-Map Editor File Edit N Camera Control Sensor Virtual Site Site	EWCMS_2KV3WemapWCM Aap Mode View Abou	t t Property SITE ID	01		
E-Map Editor File Edit Camera Control Sensor Virtual Site Site	E:#CMS_2KV3#emap#CM Aap Mode View Abou	t Property SITE ID SITE INAME	01 44		
E-Map Editor File Edit N Camera Control Sensor Virtual Site Site	EtHCMS_2KV3HemapHCM Aap Mode View Abou	t Property SITE ID SITE NAME MEMO	01 44 Document Room		
E-Map Editor File Edit Camera Control Bensor Virtual Site	::#CMS_2KV3#emap#CM Aap Mode View Abou	t Property SITE ID SITE NAME 1 MEMO [D]	01 44 Document Room		
E-Map Editor File Edit Camera Control Sensor Site Site	EHCHS_2KV3HemapHCM Aap Mode View Abou	t Property SITE ID SITE NAME T MEMO T	01 44 Document Room		

7) Arrange Site on CMS E-Map Editor, double click and then enter Site property. Please make sure that the Site name as above picture name and DVR setting info on CMS must be the same.

SITE NAME must be the same with DVR name. if the name is different, CMS MAP can run but previously arranged Site icon will not appear so you cannot view the Site map. When you are finished to arrange site, enter property and then save.

- E-Map Editor C:#CMS_2KV3#emap#CMS.emp File Edit Map Mode About View NEW OPEN. SAVE SAVE AS. CLOSE EXIT Deskto -🗢 🚞 💣 🛄 Look in Type Date My Ne System Fo File Folder File Folder 5/28/: 5/28/: 6/7/21 6/12/: 6/12/: Recent sqi ODBC G 2,305 KB 1,909 KB 1,238 KB 1.bmp Bitmap Imag 5 Site Desktop 1,238 KB Bitr 1,021 KB Bitr 87 KB Bitr 704 KB Bitr 376 KB Bitr 91 KB Bitr 1,544 KB Bitr 6/7/2 6/12/: Bitmap Imag 6/12/; 6/12/; Site Info Bitmap Image nap Imag 6/12/ ap Imag 6/12/ > DVR.bmp 0 File name • <u>O</u>per -Files of type Cani My N np(" bmp;*.emp Dinen as read-only
- 2. Site Map creation and editing.

1) Click 'File'-> NEW -> Choose BMP or JPG files for using to Site Map.



2) Imported files will be used Site Map, so Map Mode will change to SITE MAP at CMS MAP. (When Site button on the left is disable, the other button can use for editing.



SITE NAME	144	
SITE IP	192 . 168 . 0 . 144	
MEMO	Document Room	

- 3) Arrange it by using a camera, control, sensor etc. After opening BMP files or JPEG file.
- 4) To change place or icon image, right click on arranged camera..
- 5) If you click 'SITE INFO' button, you can add DVR site's additional information.
- 6) User can be moved or deleted by dragging arranged the icon.
- 7) When you are finished to edit Site map, make sure to use the Save as to E-MAP folder for current registered DVR Site and same name with installed CMS_3 in a directory. (ex : C\CMS_2KV3\emap\144.emp)



Edit

Edit Map Name: Edit the name of each map.

ADD MAP: Add new EMAP files.

- COPY MAP: Copy current opening BMP files or EMAP files.
- PASTE MAP: Paste copied files.
- DELETE MAP: Delete current displayed map.
- DELETE OBJECT: Delete the selected icon.
- Select All Object: Select all icons on the map.



Map Mode

SITE MAP: Change Editor mode to SITE MAP. CMS MAP: Change Editor mode to CMS MAP.

View

CAMERA STATE: Can check camera information. CONTROL STATE: Can check control information. SENSOR STATE: Can check sensor information.

About

You can check E-Map Editor version.

3. E – Map execute.



When you are finished to edit for CMS Map, Site Map, access the DVR Site -> Start → E – Map-> run.
 ※ If you want to use directly Site Map, click 'DVR E – Map'. And then CMS Map viewer will run.
 If DVR Site registers , file will show on the top left of CMS category as pictured.



2) When you double click to arranged Site icon, the Site Map viewer will run, and then registered camera, sensor and control will be marked site info on the bottom.

If you click the list on the left of the camera or camera icon on the placed map, as pictured you can check camera's image. If sensor and control connect to DVR, when the event occur, the icon will be blinking. If you execute CMS map viewer not site map, the CMS Map's Site icon will be blinking instead.

Chapter 8 📎 CMS - Remote Update

Firmware Update

- You can remote-update NS DVR programs, those are connected through network, using CMS.

Check points before use

- 1) check if the version of NS DVR is later than 'usb_ft_16-080311-01'.
 - [consultation] you can check the version as follow; 'NS DVR→FRONT 'FUNCTION' KEY →STATUS→STATUS BOX' you cannot use 'firmware update' function if it is an earlier version.
 - * How to check the version of NS DVR by CMS.
 - connect to NS DVR→ select 'REMOE SETUP' button→ move to 'SYSTEM'→ check 'NS DVR' version at 'DVR Setup'.

2) check if the version of CMS is later than '3.1.8.325' version.

[consultation] you can check the version as follow 'CMS \rightarrow START \rightarrow SETUP \rightarrow on left top screen

you cannot use 'firmware update' function if it is an earlier version.

- 3) check if you have the upgrade file from supplier or dealer.
 - [consultation] the upgrade file name is gz file.

Dealer or supplier will not be responsible for problems caused due to changes of file made by user.

4) if you made all request from above, you are ready to use remote firmware update function and the process of remote update will be proceeded by CMS.

• How to use remote update function

- 1) Connect DVR that you want to update.
- 2) Select DVR that you want to update from DVR list.
- 3) Click 'REMOTE SETUP' button (🚯).
- 4) In 'SETUP', go to 'SYSTEM' and select 'Firmware' from Update options, click 'Import' button.

0.	DVR name	133		
	Version	usb_ft-nf_16-08	0325-01	
	UPDATE Firmware	C Setup	Import	Export
	NETWORK	192	168 0 133	
	Subnet mask	255	255 255 0	
	Gateway address	132	168	
	Baud rate	unlimited		•
-1	JSER			
	Registered user list		N2	
	NetUser	User name(ID)	NetUser	
		Password	нин	
		1		
		Register new user	Delete	Change password
				1
				Apply

5) Click 'Browse' button from 'Firmware Upload' window.

DVR name	133	192 . 168 . 0 . 133
		Browse
		Update
		Once

6) Search the file, provided from supplier or dealer. Click 'Open' button.

Open					? 🛛
Look in:	Desktop] 🔶 [🖬 👉 📖	÷
Recent Recent Desktop My Documents	My Documer My Compute My Network DVR_Driver	its F Places _16-080325-01.tar.gz			
	File <u>n</u> ame:	[flash-usb_ft_16-080325-01.tar.gz		•	<u>O</u> pen
My Network	Files of type:	flash-usb*.tar.gz		¥	Cancel
Places		C Open as read-only			· · · · · · · · · · · · · · · · · · ·

7) Click 'Update' button from 'Firmware Upload' window. Then it will start uploading the update file to the selected DVR.

DVR name	133	192 . 168 .	0 . 133
C:₩Document	s and Settings\#Administrator\#Deskt	top₩flash-usb_ft_16-080325-01.tar.	Browse
			Update
	20.84		

- 8) After uploading, the 'INFO' window will pop up. If you click 'Yes' it will start updating the DVR.
 - (if you click 'No', it will cancel the update.)

INFO		X
	Do you want to update firmware?	
	After update firmware, the DVR will shut down and reboot automatically. You have to connect 3~5 minute later	
	CANCLE	
	CANCLE	

[consultation] After completing the DVR update, it will disconnect with CMS. You can connect to CMS after about 3 minutes and check or change updated DVR info.

• Firmware Upload window



1) display the name of update DVR.

2) display the update file folder that you selected.

3) display uploading status of update file.

4) display the uploading progress of update file by %.

5) display the update DVR IP information.

6) select update file location.

7) upload the file on the DVR to be updated.

8) cancel file uploading.

Setup Upload, Download

- You can upload, download the setup value of NS DVR connected to network by CMS.

• Check points before use

1) check if the version of NS DVR is later than 'usb_ft_16-080311-01'.

[consultation] you can check the version as follow; 'NS DVR→FRONT의 FUNCTION KEY →STATUS→STATUS BOX' you cannot use 'Setup Upload, Download' function if it is an earlier version.

* How to check the version of NS DVR by CMS.

- connect to NS DVR→ select 'REMOE SETUP' button→ move to 'SYSTEM'→ check 'NS DVR' version at 'DVR Setup'.

2) check if the version of CMS is later than '3.1.8.325' version.

[consultation] you can check the version as follow 'CMS \rightarrow START \rightarrow SETUP \rightarrow on left top screen

you cannot use 'setup upload, download' function if it is an earlier version.

 if you made all request from above, you can use "function and the process of remote update will be proceeded by CMS.

• How to use Setup Upload function

1) Connect DVR that you want to setup upload, download.

2) Select DVR that you want to setup upload, download from DVR list.

3) Click 'REMOTE SETUP' button ().

4) In 'SETUP', go to 'SYSTEM' and select 'Setup' from Update options, click 'Import' button.

IERA OTH CSPEED IEDULER	IER DVR Setup	1100		
isor No.	DVH name	1135		
om	Version	usb_ft_16-080325-	01	
	UPDATE			
	C Firmware	Setup	Import	Export
	NETWORK	192 1	E9 0 123	
	DVHIP	1 1.54	00 . 0 . 100	
	Subnet mask	255	55	
	Gateway address	192 1	68 0 . 1	
	Baud rate	unlimited		•
-	USER			
	Registered user list		101	
	NetUser	User name(ID)	NetUser	
		Password	NHNH	-
		1 dosmold	1	
			1	
	B	egister new user	Delete	Change password
				Арріу
				()

5) Click 'Browse' button from 'Setup Upload' window.

		E saw tank at tank
DVH name	133	132 . 168 . 0 . 133
		Browse
		Update

6) Select the saved NS DVR setup value from 'Open' window. Click 'Open' button.

pen					?
Look jn	🥪 Local Disk	(C:)	*	+ 🗈 💣 📰	
Recent Desktop Wy Documents	ATI CMS_2XV3 Documents Program File WINDOWS	and Settings S			
My Computer	File <u>n</u> ame:	config_16.cfg			<u>O</u> pen
My Network	Files of type:	config_16.cfg		-	Cancel
Places					-

7) Click 'Update' button from 'Setup Upload' window. Then it will start uploading the NS DVR setup value to the selected DVR.

p Upload			
DVR name	133	192 168	. 0 133
C:₩config_16.	cfg		Browse
			Update
	100 %		Close

 After uploading, the 'INFO' window will pop up. If you click 'Yes' it will start uploading the DVR. (if you click 'No', it will cancel the uploading.)

INFO		
	Do you want to update setup?	
	After update setup, the DVR will shut down and reboot automatically. You have to connect 3°5 minute later	
	CANCLE	

[consultation] After completing the DVR uploading, it will disconnect with CMS. You can connect to CMS after about 3 minutes and check or change updated DVR info.

• How to use Setup download function

- 1) Connect DVR that you want to setup upload, download.
- 2) Select DVR that you want to setup upload, download from DVR list.
- 3) Click 'REMOTE SETUP' button (🚯).
- 4) In 'SETUP', go to 'SYSTEM' and select 'Setup' from Update options, click 'Export' button.

JLEH lo.	DVR name Version	133 usb_ft_16-080	325-01				
	UPDATE C Firmware	Setup	Import	Export			
	NETWORK DVB IP	192	168 . 0 . 1	133			
	Subnet mask	255	255 255	0			
	Gateway address	192	168 . 0 .	1			
	Baud rate	unlimited		•			
-1	~1ISEB						
	Registered user list						
	NetOser	User name(ID)	NetUser				
		Password	XXXX				
		De das annus 1		Channes assumed			
		negister new user		change password			
				Andu			
				Арру			

5) Click 'Browse' button from 'Setup Download' window.

DVR name	133	192 . 168 . 0 . 133
		Browse
		Demined

6) Select the folder to save NS DVR setup value from 'File Save' window, Click 'Save' button.

Savein	Sa Local Disk I	(C)	• der		2
Recent Desktop My Documents	CM5_2KV3 CM5_2KV3 Documents a Program File: WINDOWS	nd Settings			·
My Computer	File name:	config_16.cfg			Save
Mu Network	Save as type:	config 16.cfg		•	Cancel

7) Click 'Down	vnload' button from 'Setup Download' window. Then it w	vill start downloading NS DVR setup value.
	Setup Download	
	DVR name 133 192 . 168 . 0 . 133	
	C:Wconfig_16.clg Browse	
	Download	
	100 % Olore	

8) After downloading, the 'INFO' window will pop up. click 'OK' button.

pletion



- Web CMS : Remote monitoring available through internet explorer without the specific software.
- 36 Display Screens, Division screens, PTZ Controller supported.



- Input IP or domain on the address.
- Install ActiveX file related to Web CMS.



Addrace A htt		-	~ •				V P c	Dela
Addiress int	p://192.166.0.131/						2 2 3	Lins
🖷 Cam01	📑 Cam02	P Cam03	🛒 Cam04	n Cam05	📲 Cam06	DVR Connect		
Cam07	Cam08	nt Cam09	n Cam 10	n Cam 11	et Cam12	Search		
🗗 Cam 13	🚅 Cam 14	🖷 Cam 15	🚅 Cam 16	Cam 17	💕 Cam 18			
💏 Cam 19	n Cam20	n Cam21	Cam22	Cam23	P Cam24	His Track Focus PAN TLT ZOOM P		
Cam25	n Cam26	Cam27	n Cam28	n Cam29	n Cam30	• PRESET SELEC 1 2 4 5 7 8 SET 0 8	3 6 9 170	
Cam31	Cam32	Cam33	n Cam34	e Cam35	n Cam36	Camera Count : 0 IP : 0.0.0.0 Data Port : 7000 Stream Port : 8000		

starting screen of connection

- Click 'Connect' button to input each information and IP address for connection.
- Click 'Connect' button after input DVR Type, name, user's ID, password, Site IP, port number etc.

DANTINE	STANDALONE DVR_NS
DVR CODE	16
User ID	administrator
User PW	****
 SITE IP 	192 . 168 . 0 . 111
C DOMAIN	
DOMAIN Data port Stream port	7621

Chapter 10 Mobile Access

Mobile View (In case of no application.)

This product supports to access IPOD, 3G phone's mobile. 3G phone must have access to internet via wireless LAN.



Please follows as below when you have access to the internet.

1) Please input the address as below.

http://my_dvr_address/mobile.html

- 2) USER-ID: Input user ID 'ADMIN' (default).
- 3) PASSWORD: Default password is '0000'.



When you have access to DVR, the picture will show up. Adjust screen size.

For more detailed operation guide, please refer to the Mobile device's manual section.



How to change the channel
 If you select "Channel " menu,
 DVR's channel list will show up .
 You can select on the desired channel.



 How to change the screen size To change the channel video size, select "Size" menu.



- 3) How to change refresh time
 - You can change the frame of refresh time as displayed on the screen.
 - Please refer on the right picture.



Note: Access method may vary different accordding to mobile device. Please refer Mobile device's manual.

* Mobile Viewing through our mobile viewer (iphone) We support our mobile viewer for iPhone.

[How to install] : You can download and install "A Viewer" through iPhone application store. Click application store \rightarrow Search "a viewer" \rightarrow Click a project's A Viewer icon \rightarrow Click Install Then A Viewer icon will be generated in your iPhone.

[How to start]





Click A Viewer icon

Enter Login password : default password is "admin"

Pod 😎	足单 12:18	80	Pod 😴 🕺	12:21	80	Pod 💎	皇丰 3:07	
	Edit DVR List	16	Edit	VR List	16		DVR List	
	068		0.5			D 132		
DVR name	DVR Name		DVR name			📮 135		
Address	DVR IP Address		Address			Q 134		
Port	Port Number		Port	14-01-01-01-01-01-01-01-01-01-01-01-01-01-	<u> </u>	Q 136		
User ID	User ID		QWERT	YUI	OP	137		
Password			ASDF	G H J K	L	口 138		
			⇒ z x c	VBNM	-			
	~ 1	e	123 🛞 🦉	pace	eturn	1	•	H +

Then 'Edit DVR List' menu will show up.

You should register DVR that you wish to access to remotely.

- DVR name : Input DVR name.
- Address : Input DVR IP address or host name.
- Port : Input DVR port number that of DVR Setup menu \rightarrow Network \rightarrow Client \rightarrow Client Port.
- User ID & Password : Input User ID and Password that of DVR side.

Click the V button, the DVR List window will show up with the DVR name as you input.

- : Save it and return to DVR List menu
 - : Do not save it and return to DVR List menu

Click the 'DVR Name', then the mobile viewer will be activated as below.



- (1) : Zoom in on 1ch screen mode
- I zoom out on 1ch screen mode
- : Change a channel to the very previous channel CH
- CH+

: Change a channel to the very next channel



* Mobile Viewing through our mobile viewer(Android phone) We support our mobile viewer for Android phone.

[How to install] : You can download and install "dvroid" through Android market. Click Android market \rightarrow Search "dvroid" \rightarrow Click a project's dvroid icon \rightarrow Click Install Then dvroid icon will be generated in your Android phone.

[How to start]



Then 'Edit DVR List' menu will show up.

You should register DVR that you wish to access to remotely.

- DVR name : Input DVR name.
- Address : Input DVR IP address or host name.
- Port : Input DVR port number that of DVR Setup menu \rightarrow Network \rightarrow Client \rightarrow Client Port.
- User ID & Password : Input User ID and Password that of DVR side.

Click the VR button, the DVR List window will show up with the DVR name as you input.

- I save it and return to DVR List menu
 - : Do not save it and return to DVR List menu

Click the 'DVR Name', then the mobile viewer will be activated as below.



- (•) : Zoom in on 1ch screen mode
- : Zoom out on 1ch screen mode
- : Change a channel to the very previous channel CH-
- CH+

: Change a channel to the very next channel



- : 4ch screen mode
- : 9ch screen mode

: Close live screen



Close



前 : Delete DVR name

💽 : DVR list setup menu

: Version information



[NS I/O CONFIGURATION]

1. Number of supporting port

	NS-2004	NS-2008	NS-2016	NS-8008	NS-8016
Sensor	1port	1port	1port	8ports	16ports
ALARM	1port	1port	1port	4ports	4ports
RS-485	1port	1port	1port	2port	2port

2. Connecting information of Alarm/Sensor



3. RS-485 connecting configuration1) DVR-Key Board controller



Note) For correcting operation of DVR when using this function, user must setup System-ID. (SETUP→SYSTEM→MISC)

3. RS-485 Connecting Configuration2) DVR-PTZ camera



Note) For correcting operation of DVR when using this function, user must setup System-ID. (SETUP→SYSTEM→MISC)

2WAY Audio confiuration



Note: For using two way audio communication,

The at Windows system, it must be operated correctly for Audio device without problem.





rafter preparing MIC / Speaker or Headset , it must be connected with CMA system.

ranker or Headset , it must be connected with DVR system.



Chapter 12 🜖 Specification

NS-8004 / 8008 / 8016

	Item		NS-8004	NS-8008	NS-8016			
Connecttion	Video Input(BNC)		4	8	16			
	Audio In(RCA)		4	8	16			
	Audio Out(RCA)		1	1	1			
	Video Output(BNC	;)	1	1	1			
	VGA		1	1	1			
	Alarm Input		4	8	16			
	Alarm Output(relay	/)	4	8	16			
	USB port		4	4	4			
	PTZ(485)		1	1	1			
	Ethernet		RJ-45, 10/100Mbps					
Live	NTSC		720(H)×480(V)					
	Resolution	PAL		720(H)×576(V)				
	Live Mode		1,4 screen, Seq 1,4,9 screen, Seq 1,4,9,16 screen, S					
	Playback mode		1,4 screen	1,4,9 screen	1,4,9,16 screen			
	Digital Zoom		X2	x2	x2			
	PIP		0	0	0			
	Camera name		English 12 char	acters Available with nation	al language			
	Languaga		English, Korea, Chinese, Jap	anese, Spanish, Polish, Po	rtuguese, Russian, Other			
			La	anguages can be available				
Record	Resolution	r		D1 / Half D1 / CIF				
	Frame speed	NTSC	4ch/120@D1	8ch/240@D1	16ch/480@HD1			
		PAL	4ch/100@D1	8ch/200@D1	16ch/400@HD1			
	Record Mode		Manual / Cor	ntinuous / Schedule / Motion	/ Sensor			
	Quality		B	est / High / Normal / Basic				
	Pre-recording			0~15 seconds				
	Post-recording			10~120 seconds				
	Intensive recording	9	0	0	0			
	Record limit		Auto	matic data delete(0~99 days	s)			
Backup	USB device Backup		0	0	0			
	Play backup file		Playback software	e is copied automatically wit	h backup data			
Network	Network interface			Static / DHCP / PPPOE				
	Web Monitoring		Live / Playback / Audio / PTZ control / Snapshot					
	CMS		Remote firmware upgrade / Config upload / Config download / Recording setup Input of camera name / Log-view / Snapshot / Central monitoring					
	DDNS		Support free DDNS server(dyndns.com / no-ip.com)					
	Mobile view		Support -3G phone, Smart phone					
Alarm	Sensor input setup)	NC/NO	NC/NO	NC/NO			
	MISC		Email notific	ation, Detection of HDD terr	perature			
PTZ	PTZ protocol		Pelco-D, Pelc	o-P, Other protocol can be	supported			
	Preset control		0	0	0			
HDD	Internal HDD		4	4	4			
	Туре		SATA	SATA	SATA			
System	OS			Embedded Linux				
	Compression		H.264	H.264	H.264			
	Menu type			Graphic user interface				
	Control		USB Mouse /	Remote controller / Externa	keyboard			
	User management	t	Administrator	and 4 users with limit acces	s function.			
	Firmware upgrade		USB	flash memory, Network, CM	S			
	Log view		0	0	0			

Chapter 13 📎 Warranty

WARRANTY

We warrant that Standalone DVR series(Product) will be free from defects in materials and workmanship for a period of one year from the date the customer acquires the Product. If such a defect occurs, return the Product to us and we will, at our opinion, either repair or replace Product. This remedy is your exclusive remedy for breach of this warranty. The proof of purchase is required for the warranty. This warranty shall not apply to repairs or replacements necessitated by any cause beyond the control of ForeTech Co., Ltd., including, but not limited to,

- 1) improper installation
- 2) acts of nature
- 3) Accident
- 4) misuse,
- 5) lack of proper maintenance
- 6) voltage fluctuations
- 7) unauthorized repairs or modifications.

This warranty gives the customer certain legal rights. Other rights, which vary from state to state or province to province, may be available to the customer.

LIMITATION OF WARRANTIES AND LIABILITY :

Except for the expressed warranty above, the Product is provided on an as is basis without an other warranties or conditions express or implied, including but not limited to warranties of

- 1) Merchantable quality
- 2) Merchant ability or fitness for a particular purpose
- 3) Those arising by law, statue, usage of trade or course of dealing.

The entire risk as to the results and performances of the Product is assumed by you. Neither we nor our dealers or suppliers shall have any liability to you or any other person or entity for any indirect, incidental, special or consequential damages whatsoever, including but nor limited to, loss of revenue or profit, or other commercial or economic loss, even if we have been advised of the possibility of such damages or they are foreseeable: or for claims by a third party. Our maximum aggregate liability to you, and that of our dealers and suppliers, shall not exceed the amount paid by you for the product. The limitations in this section shall apply whether of not the alleged breach or default is a breach of a fundamental condition or term, or a fundamental breach. Some states/countries do not allow the exclusion or limitation of liability for consequential or incidental damages so the above limitation may not apply to you.

