# **DVR User Manual**

# **DIGITAL VIDEO RECORDER**

T Series / S Series / H Series

# 1. Overview

# 1.1 Notice

This User's manual provides Information for using DVR such as brief introduction, part names, functions, connection to other equipment, menu setup, and the like. You have to keep in mind the following notices:

- Manufacturer retains the copyright on this manual.
- This manual cannot be copied without Manufacturer's prior written approval.
- Manufacturer is not liable for any or all losses to the product incurred by your use of non-standard product or violation of instructions mentioned in this manual.
- It you want to open the case of your system for checking problems, please consult the expert from the shop where you bought the product.
- Before installing an additional HDD or connecting an external storage device (USB memory or USB HDD) to this DVR check the compatibility list.





# 1.2 Caution

#### Please be aware of the following precautions before installing the DVR

- Avoid positioning the DVR in any place where the unit may come into contact with moisture, dust, or soot.
- Avoid placing in direct sunlight or near heating appliances.
- Keep the product away from electric shock or magnetic substances.
- Avoid temperature extremes (recommended operation temperature is between 0°C and ~40°C).
- Do not place any conductive material through the ventilation grills.
- Keep the system turned off before installation.
- Ensure enough space is left for cable connections.
- Place the system on a solid surface with sufficient air ventilation. Avoid any surface that vibrates.
- Placing the system near electronic devices such as radio or TV may cause breakdown to the product.
- Do not disassemble the product without seeking assistance from manufacturer.
- Do not place any heavy object on the system.

# 1.3 Safety Warnings and Cautions

#### Warning and Caution Signs



# Warning

Do not attempt to disassemble, repair, or modify the system on your own. It is extremely dangerous due to high voltage running through the system.

• This may cause fire, electric shock, or serious injuries.



Check for any danger signs such as moist floor, loosened or damaged power cable, or unstable surface. If you encounter any problems, ask for assistance from your dealer.

• This may cause fire or electric shock.



Keep at least 15cm between the back of the system and a wall for the cables connected into the system. Otherwise, cables may be bent, damaged, or cut.

• This may cause fire, electric shock, or injuries.



Install the system in a cool place without direct sunlight and always maintain room temperature. Avoid candle light and heat-generating devices such as heater. Keep the system away from places where many people pass.



Install the system on a plain surface with sufficient air ventilation. Do not place the system on elevated surface.

• This may cause system breakdown or serious injuries.



The power outlet must be placed on a ground, and the voltage range must be within 10% of the voltage rate. Do not use the same outlet with a hair dryer, iron, refrigerator, or any heating appliances.

• This may cause fire, heating, an electric shock.





If the system's HDD has exceeded its life span, you may not be able to recover any data stored inside the HDD. If the video on the system screen appears 'damaged' while playing a recording stored inside the system's HDD, it must be replaced with a new one. Ask for an engineer's assistance for HDD replacement from your dealer.

• Manufacturer is not responsible for deleted data caused by user's mishandling.

When the system's battery is depleted, you must change it with the same or equivalent type of battery specified by the manufacturer. Depleted batteries should be discarded according to manufacturer's instructions.

• This may cause an explosion.



# <text><text><text><image><image>



Ventilate the air inside the system operation room, and tighten the system cover firmly.

• System breakdown may be cause by inappropriate environment.

It is recommended to use AVR (Automatic Voltage Regulator) for stable power supply.

It is recommended to coil the core-ferrite around the connector of the system to avoid electromagnetic interference.

In order to maintain stable system performance, have your system checked regularly by the service Center.

 Manufacturer is not held responsible for system breakdown caused by user's mishandling.

# 1.4 Equipment

Please check to make sure the following equipment are included when you purchased DVR

(The user manual will be included either inside the product software CD or a quick Manual including important contents.)





# 1.5 Front Panel (8CH,16CH Model)



- [1. DVD-RW]
- [2. Jog Shuttle]
- [3. LED Status]
  - POWER
  - REC
  - NETWORK
  - KEYLOCK
  - AUDIO
- [4. Camera Channel]
- [5. Split Screen Buttons]
  - AUTO SEQ : Automatic channel sequence
  - 4-split : 4-splitscreen
  - 9-split : 9-splitscreen
  - 16-split : 16-splitscreen
  - MENU : Menu screen

- [6. Function Buttons]
  - PANIC : Panic mode
  - KEYLOCK : Keylock mode
  - PTZ : PTZ mode
  - BACKUP : BACKUP mode
  - ESC : Return to previous mode
- [7. Playback Control Buttons]
  - Rewind playback
  - Playback the previous video
  - Pauses playback
  - playback(Calendar search)
  - Playback the next video
  - Forward playback
- [8. Directional move buttons]
- [9. USB port]
  - 2 Port

# 1.6 Rear Panel (SD Model)



- [1. Camera Video Input ] - 1~16 Port
- [2. Loop Through Output] - 1~16 Port
- [3. Main Monitor(CVBS)]
- [4. Multi-Spot(CVBS)]
- [5. Power Connector] - AC Input
- [6. Audio Input] - 1 ~ 16 Port
- [7. Alarm In Port] - 1~16 Port ( G: Ground )

- [8. Alarm Out Port] - 1 ~ 16 Port ( G: Ground )
- [9. RS-485/422] - RS-485 : A, B, G - RS-422 : A, B, Y, Z
- [10. USB Port] - 2 Port
- [11. E-SATA Port]
- [12. Network Port]
- [13. HDMI Port]
- [14. VGA Port]
- [15. Audio Out]

# 1.7 Rear Panel (HD Model - 16Ch)



- [1. Power Connector] - AC Input
- [2. Camera Video Input ] - 1~16 Port
- [3. E-SATA Port]
- [4. VGA Port]
- [5. HDMI Port]
- [6. USB Port]
  - 2 Port

- [7. Network Port]
- [8. Audio Input ] - 1~16 Port
- [9. Alarm In Port] - 1~16 Port ( G: Ground )
- [10. Alarm Out Port] - 1~16 Port ( G: Ground )
- [11. RS 485/422] - RS-485 : A, B, G - RS-422 : A, B, Y, Z
- [12. Main Monitor(CVBS)]
- [13. Audio Out]

#### 1.8 Rear Panel (HD Model - 8Ch) 13 10 11 12 0, 0, 0, 0, 0 0 0 0 8 j O 3 4 5 6

- [1. Power Connector] - AC Input
- [2. Camera Video Input ] - 1~8 Port
- [3. E-SATA Port]
- [4. VGA Port]
- [5. HDMI Port]
- [6. USB Port]
  - 2 Port

- [7. Network Port]
- [8. Audio Input ] - 1~8 Port
- [9. Alarm In Port] - 1~8 Port ( G: Ground )
- [10. Alarm Out Port] - 1~8 Port ( G: Ground )
- [11. RS 485/422] - RS-485 : A, B, G - RS-422 : A, B, Y, Z
- [12. Main Monitor(CVBS)]
- [13. Audio Out]

# 1.9 Front Panel ( 4 CH Model )



- [1. LED Status]
  - POWER
  - REC
  - NETWORK
  - KEYLOCK
  - AUDIO

[2. USB port] - 2 Port

# 1.10 Rear Panel (4CH Model)



- [1. Main Monitor(CVBS)]
- [2. Audio Output ]
- [3. Audio Input ] - 1 ~ 4 Port
- [4. VGA Port]
- [5. Network Port]
- [6. Alarm In Port/Alarm Out / RS-485 ]

  Alarm In : 1 ~ 4 Port, G
  (G : Ground)
  Alarm Out : Com, NC, NO
  RS-485 : G, A, B

- [7. Camera Video Input ] - 1 ~ 4 Port
- [8. HDMI Port]
- [9. USB Port ] - 1 Port
- [10. Power Connector] - DC 12V

# 1.11 Rear Panel (8CH Model)



- [1. Main Monitor(CVBS)]
- [2. Audio Output ]
- [3. Audio Input ] - 1 ~ 4 Port
- [4. E-SATA Port]
- [5. Network Port ]
- [6. Alarm In Port/Alarm Out / RS-485 ]

  Alarm In : 1 ~ 4 Port, G
  (G : Ground )
  Alarm Out : Com, NC, NO
  RS-485 : G, A, B

- [7. Camera Video Input ] - 1 ~ 8 Port
- [8. VGA Port]
- [9. HDMI Port]
- [10. USB Port ] - 2 Port
- [11. Power Connector] - DC 12V

# 1.12 Remote Controller



#### [Note]

- Usage of a remote controller is same the front panel keys.
- To select camera or Audio 10~16, press 10+ button followed by the 1 ~ 6 buttons.
- Follow the procedure below when using the remote controller for multi DVRs.
- Check System ID(between 1 and 16) of the DVR that wish to use.
- Holding up the remote controller to face towards the DVR and press the System ID numbers one by one, while pressing ID button on the remote controller. Note that the System ID is 2-digit number. Button '10' functions the same as '0'.

# Content

#### 1. Overview

1.1 Notice	2
1.2 Caution	3
1.3 Safety Warnings and Cautions	4
1.4 Equipment	9
1.5 Front Panel (8CH, 16 CH Model)	10
1.6 Rear Panel (SD Model)	11
1.7 Rear Panel (HD Model – 16CH)	12
1.8 Rear Panel (HD Model – 8CH)	13
1.9 Front Panel (4 CH Model)	14
1.10 Rear Panel (4 CH Model)	15
1.11 Rear Panel (8 CH Model)	16
1.12 Remote Controller	17

#### 2. Live

2.1 Live Screen	25
2.1.1 Live Screen Zoom	26
2.2 Popup Menu	27
2.3 Context Menu	28
2.3.1 Playback	29
2.3.2 Cam Adjust (Only for 960H/SD Models)	29
2.3.2.1 Color (Only for 960H/SD Models)	30
2.3.4.2 Camera (Only for 960H/SD Models)	30
2.3.3 Alarm Out	31
2.3.4 PTZ	32

#### 3. Playback

3.1 Playback	33
3.1.1 Play Back Zoom	34
3.2 Popup Bar	34

	3.3 Context menu	35
	3.3.1 backup	36
	3.3.1.1 H264 Backup	36
	3.3.1.2 JPG Backup	37
	3.3.2 Bookmark Search	37
	3.3.3 Calendar Search	38
	3.3.4 Event Search	39
4.	. DVR Setup	
	4.1 Wizard	40
	4.1.1 All	40
	4.1.2 Recording	45
	4.1.3 Network	48
	4.2 System	50
	4.2.1 General	50
	4.2.1.1 Date/Time Setting	50
	4.2.1.2 Video	51
	4.2.1.3 Storage	52
	4.2.1.4 Update	53
	4.2.1.4.1 Firmware Update	53
	4.2.1.4.2 Kernel Update	54
	4.2.1.5 Admin	55
	4.2.2 Account	56
	4.2.2.1 New Group	56
	4.2.2.2 Edit Group	57
	4.2.2.3 New User	58
	4.2.2.4 Edit User	59
	4.2.2.5 Checking	60
	4.2.3 Log	61
	4.2.3.1 Log	61
	4.2.3.2 Setup	62

4.2.4 Backup	63
4.2.4.1 H264 Backup	63
4.2.4.2 JPG Backup	64
4.3 Recording	65
4.3.1 Setting	65
4.3.1.1 Camera	65
4.3.1.2 PTZ	66
4.3.1.3 Keyboard	67
4.3.1.4 Privacy	68
4.3.2 Motion	69
4.3.2.1 Motion Area Setting	70
4.3.3 Schedule	71
4.3.3.1 Schedule	71
4.3.3.2 Holiday	72
4.4 Network	73
4.4.1 General	73
4.4.1.1 Setting	73
4.4.1.2 NTP	74
4.4.1.3 UPnP	75
4.4.2 DDNS	75
4.4.3 E-Mail	76
4.4.3.1 Receiver	76
4.4.3.2 Sender	77
4.4.3.3 Attachment	78
4.5 Alarm	79
4.5.1 Alarm	79
4.5.1.1 Alarm In	79
4.5.1.2 Alarm Out	80
4.5.2 Motion	81

	4.5.3 POS/ATM	82
	4.5.4 No Video	83
	4.5.5 Abnormal	84
	4.6 View	85
	4.6.1 OSG	85
	4.6.1.1 System	85
	4.6.1.2 Live	86
	4.6.1.3 Search	87
	4.6.2 POS/ATM	88
	4.6.2.1 Live	88
	4.6.2.2 Search	88
	4.6.2.3 Network	89
	4.6.3 Main Monitor	90
	4.6.3.1 1 Division	90
	4.6.3.2 4 Division	91
	4.6.3.3 9 Division	92
	4.6.4 Multi Spot	93
	4.6.4.1 1 Division	93
	4.6.4.2 4 Division	94
	4.6.4.3 9 Division	95
5.	. POS/ATM	
	5.1 Connection	96
	5.2 Setup	96
	5.2.1 Setup	96
	5.2.2 Live	97
	5.2.3 Playback	97
6.	. Keyboard	
	6.1 Exterior	98
	6.2 Connection	98
	6.3 Function	99
	6.4 Configuration	101

6.4.1 For one unit (PTZ directly connection)	101
6.4.2 For one unit (1 Keyboard , 1 DVR, 1 Camera)	101
6.4.3 Configuration	102
6.4.4 For multi units	102
6.5 Setup	103
6.5.1 Setup for DVR	103
6.5.2 Setup for Keyboard	104
6.5.2.1 Menu	104
6.5.2.2 Setup for menu	104
6.5.2.3 Setup for PTZ	106
7. CMS	
7.1 CMS Login	107
7.2 Starting screen	108
7.2.1 Menubar	108
7.2.1.1 System	108
7.2.1.2 Tools	108
7.2.1.3 Setup	109
7.2.1.4 View	110
7.2.1.5 Help	110
7.2.2 Toolbar	110
7.2.3 Server List	111
7.2.4 Video context menu	112
7.2.5 Log Windows	112
7.2.5.1 CMS Log	112
7.2.5.2 Server Event Log	113
7.2.5.3 Server System Log	113
7.2.5.4 Server System Status	113
7.2.5.5 Event List	113
7.3 Search	114
7.3.1 Tools	114

7.3.1.1 DVR Connection	115
7.3.1.2 Search Mode	115
7.3.1.3 Recorded Dates	116
7.3.1.4 Playback buttons	116
7.3.2 Search tools	117
7.3.3 Event Search tools	119
7.3.4 ATM/POS Search tools	120
7.3.5 Bookmark Search tools	121
7.3.6 Thumbnail Search tools	122
7.3.7 Intelli-Search tools	123
7.4 Setup	124
7.4.1 CMS Setup	124
7.4.1.1 System	124
7.4.1.2 Display	126
7.4.1.3 Backup	128
7.4.1.4 Setup	129
7.4.1.5 Playback	130
7.4.1.6 Instant Record	131
7.4.1.7 Account	132
7.4.1.8 Password	133
7.4.2 Server Setup	134
7.4.3 DVR Remote Setting	137
7.4.4 Remote Upgrade	138
7.5 E-Map	139
7.5.1 E-Map Menu	139
7.5.2 E-Map Edit	140
7.5.3 E-Map Item Setting	141
7.5.3.1 E-Map Item Connecting	142
7.5.4 Using E-Map	143

#### 8. Active X

8.1 Active X Connection	143
8.2 Active X Initial Screen	144
8.3 Connect	145
8.4 LIVE	146
8.5 PLAYBACK	
8.6 BACKUP	151

#### 9. Mobile Viewer

9.1 Download Mobile Viewer	152
9.2 Android , iPhone	153
9.2.1 Beginning	153
9.2.2 DVR Add/Edit/Delete	154
9.2.2.1 DVR Add/Edit	155
9.2.2.2 DVR Delete	156
9.2.3 DVR connection	157
9.2.4 Playback	159
9.2.5 Snapshot	160
9.2.6 Setting	161

# 2.1 Live Screen



#### [1. Camera name]

Displays camera name.

#### [2. Recording mode]

Displays the current recording mode.

#### [3. Recording status]

Displays the current recording status.

#### [4. PTZ status]

Displays PTZ camera status.

#### [5. Audio]

Displays Audio On

#### [6. Remaining HDD Capacity]

Displays the remaining HDD status

#### [7. Network status]

Displayed if the network is connected to DVR

#### [8. Auto sequence]

Displayed when the auto sequence is in process

#### [9. Day/Time]

Displays the current day/time

#### [10. Lock]

- Displayed in the lock condition
- It needs to enter the password to release the button lock.

#### [11. PTZ]

Displayed if PTZ is in operation.

#### [12. Spot monitor]

- Displayed when spot monitor is in auto sequence.
- Available only for 960H/Analog Models

#### [13. keyboard]

Displayed if the keyboard is connected.

#### 2.1.1 Live Screen Zoom

- 1. Change screen to 1 full screen mode.
- 2. Draw rectangle by dragging mouse left button pressed.
- 3. Double click to unzoom.

# 2.2 POP-UP MENU



Shutdown - Shutdown the pop-up menu



Backup - Displays the backup menu

- Displays the setup menu



1-split screen - Displays 1 channel screen mode



- 4-split screen - Displays 4 channel screen mode
- 9-split screen - Displays 9 channel screen mode
- 16-split screen - Displays 16 channel screen mode
- Auto sequence - Activate auto sequence mode - main screen



L'

- Spot monitor (only for 960H/SD) - Activate spot monitor auto
- sequence mode



• PTZ mode

- Displays the PTZ remote control menu



Setup



Playback - Displays the playback menu



Bookmark Search - Displays the bookmark search menu



Date Search - Displays the calendar search menu



# Event Search

- Displays the event search menu



#### Lock

- Displays the lock menu to change the user type or disable system operation



#### Power

- Turns DVR off

# 2.3 Context Menu

- 🛱 Setup
- Playback
- Layout
- 🛃 Auto Seq
- 🔳 Spot
- ⊷∳ PTZ
- 🖼 Cam Adjust
- 🗐 Alarm Out
- 🔒 Lock
- 🗕 Panic
- 🖒 Shut down
- 🗙 Cancel

#### Setup

- Displays the setup menu

#### Playback

- Displays the playback menu

#### Layout

- Displays the sub-menu of the split screen
- Select 1-split, 4-split, 9-split or 16-split on the screen mode

#### Auto sequence

- Activate auto sequence mode - main screen

#### Spot

- Activate spot monitor auto sequence mode
- Only for 960H/SD Models

#### • PTZ

- Displays the PTZ remote control menu

#### Camera adjust

- Displays the sub-menu of the camera adjust menu
- Only for 960H/SD Models

#### Alarm Out

- Displays the sub-menu of Alarm Out.

#### Lock

- Set the DVR in the lock condition.

#### Panic

- Enter into emergency recording mode

#### Shutdown

- Shutdown the DVR

#### Cancel

- Close the pop-up menu

# 2.3.1 Playback

🛱 Setup	
Playback	Instant
E Layout	Bookmark
🛃 Auto Seq	Calendar
Spot	Event
+∲→ PTZ	
🖾 Cam Adjust	

- Instant
  - Displays the recent recording search menu
- Bookmark
  - Displays the bookmark search menu
- Calendar
- Displays the calendar search menu
- By Event
  - Displays the event search menu

#### 2.3.2 Cam Adjust (Only for 960H/SD Models)

↔ PTZ	
🖽 Cam Adjust	Color
😩 Alarm Out	Cam Adjust
🔒 Lock	

- Color
  - Displays the color adjust menu
- Came Adjust
- Displays the camera adjust menu

#### 2.3.2.1 Color (Only for 960H/SD Models)



Brightness

- Adjust the Brightness value

- Contrast
   Adjust the Contrast
  - Adjust the Contrast value
- Saturation
   Adjust the Saturation value
- Hue
   Adjust the Hue value
- Apply to all
   Applies the current setup to all cameras

#### Default

- Initializes the setup to default value (Brightness : 0, Contrast : 85, Saturation : 130, Hue : 0)

#### 2.3.2.2 Camera (Only for 960H/SD Models)

H Sync	4
V Sync	19
Apply To All	Default
Cancel	ОК

# • H Sync

- Adjust the H Sync value
- V Sync - Adjust the V Sync value
- Apply to all
  - Applies the current setup to all cameras
- Default
  - Initializes the setup to default value (H Sync : 4, V Sync : 19)

# 2.3.3 Alarm Out

🛱 Setup				
Playback				
Layout				
🛃 Auto Seq				
🔳 Spot				
+∲+ <b>PTZ</b>				
🖽 Cam Adjust				
🖆 Alarm Out	1	2	3	4
🔒 Lock	5	6	7	8
🗕 Panic	9	10	11	12
🖒 Shut down	13	14	15	16
X Cancel		Buz	zer	

- Alarm output channel number
- Select the alarm output number

#### Buzzer

- Turn on the buzzer

## 2.3.4 PTZ

⊷∲ PTZ

<b>K</b>		
+	М	-
	➡	

- PTZ
- Go to PTZ mode
- Pan/Tilt
  - Direction buttons for movement
- M
- Enter into camera OSD menu (Only for POC or COC Models)



- Zoom
- 88 53
- Focus

   Focus Near / Far
- +
- Iris
- Iris Open / Close

- Zoom In / Out

LED Off On

# LED ON, OFF Turn On/Off LED

(Only for POC or COC Models)



#### Preset No

- Set Preset number for memory & go to



#### Go to Preset number

- Go to preset number



#### Memorize Preset position

- Memory current position to preset number



#### Pan/Tilt Speed

- Pan (Left/Right) / Tilt (Up/Down) speed
- Range is 1 ~ 10

- ×
- Close window
- Close PTZ window
- Exit
- Exit PTZ mode and return to Live mode



# 3. Playback

# 3.1 Playback



#### [1. Camera name]

• Displays the current camera name.

#### [2. Recording mode]

- C Continuous recording mode.
- M Motion recording mode.
- A Alarm recording mode.

#### [3. Video quality]

Displays the video quality.

#### [4. Frame rate]

Displays the frame rate per sec

#### [5. Recording quality]

- B Best
- H High
- M Moderate
- E Economic

#### [6. Date/Time]

Displays the date/time

### 3.1.1 Play Back Zoom

- 1. Change screen to 1 full screen mode.
- 2. Draw rectangle by dragging mouse left button pressed.
- 3. Double click to unzoom

# 3.2 Popup Bar



Playback Exit

Cancel

- Exit the playback

- Closes the pop-up menu

Ð

- $\star$
- Bookmark search
   Displays the bookmark search menu.
- Calendar
   Displays the calendar search menu
- 10

#### Event

- Displays the event search menu

# 3.3 Context menu



- Backup
- Displays the backup menu

#### Bookmark

- Displays the bookmark search menu
- Calendar
   Displays the calendar search menu
- Event - Displays the event search menu
- Playback Exit
   Exit the playback
- Cancel
- Closes the pop-up menu

# 3.3.1 Backup 3.3.1.1 H264 Backup

Backup											
Recording Period				2014-06-08 14:05:24 ~ 2014-06-09 16:57:23							
Period	20	14-06-08	8 🔒 1	14:05:24		1 ~	2014-	06-09 -	16:57	7:23 🔒 🛙	31
Туре	H2	.64		-			Сору То	u Us	SB		-
Save As					save			.exe			
Camera	<b>⊠1</b> <b></b> 9	<b>2</b> 10	<b>3</b> 11	■4 ■12	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b> 16		All	
Est	Estimate										
					Back	up					
								Ca	ncel	ОК	

#### [H264 Backup]

Backup video clip according to cameras selected and period set

#### [Recording period]

• Set the recorded period.

#### [Period]

• Set the start/end date and time.

#### [Type]

• Set the compression codec.

#### [Copy to]

Select a backup device, USB memory or CD/DVR-R

#### [Save as]

• Set the backup file name.

#### [Camera]

Select the cannel. to backup

#### [Estimate]

Check the size of the selected data and free space

#### [Do backup]

Starts backup.
## 3.3.1.2 JPG Backup

Recording Period     2014-06-08     14:05:24 ~ 2014-06-09     16:57:23       Type     JPEG     Copy To     USB     •       Save As     save     .jpg	Backup				
Save As save .jpg	Recording	g Period	2014-06-08 1/	4:05:24 ~ 2014-06-09 1	6:57:23
	Туре	JPEG		Copy To USB	
	Save As		save	.jpg	
Camera 9 10 11 12 13 14 15 16	Camera	☑1   2   = 9   10		6 7 8 14 15 16	
Backup Cancel OK			Backup	-	

## [JPG Backup]

Save current background image as JPG format

#### [Period]

• Set the start/end date and time.

#### [Copy to]

Select a backup device, USB memory or CD/DVR-R

#### [Save as]

• Set the backup file name.

#### [Camera]

- Only 1 camera should be selected at the same time
- Only cameras existed in a current background split mode are available

#### [Do backup]

Starts backup.

## 3.3.2 Bookmark search

Bookmark	
Recording Period	2014-06-08 14:29:25 ~ 2014-06-09 17:29:45
No Name	Time
	Cancel

[Recording Period]Displays the recorded period.

## 3.3.3 Calendar search

Su	nc N	•	Mon			T	Je			Wed		_	Π	NU			Fri			1 2 Sa		
1			2				3			4			!	5			6			1	7	
8			9			1	0			11			1	2			13			1	4	
15	i		16			1	7			18			1	9			20			2	1	
22	!		23			2	4			25			2	6			27			2	8	
29	I		30				1			2				3			4			3	5	
6			7				8			9			1	0			11			1	2	
									00	:00:	00 -											
00 01	02 03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	ź
							-	=		_						-		-	-		-	

## 3.3.4 Event search



#### [Recording period]

• Set the recorded period.

#### [Period]

Set the start/end date.

#### [Camera]

Select the channel for event search

#### [Index]

Select the recording data on the event list.

#### [Motion]

Select the motion for motion event search.

#### [Alarm]

Select the alarm for alarm event search.

#### [System]

Select the system for system event search.

#### [POS/ATM]

Search POS/ATM by keyword

#### [First event only]

Load only the first frame of each new event

# 4. DVR Setup

## 4.1 Wizard

4.1.1 All

STEP 1.

ī	Time Zone	UTC+09:00 Seoul, To	okyo	<u> </u>
	Language	English	·	
	Date	2014-06-03		k
Da	te Format	YYYYMMDD	•	
Date	Separator	/	•	
	Time	15:27:47	N N	
Tir	ne Format	12 HOURS	•	
Day Light Saving		Setting		

## [Time Zone]

Set the time zone.

#### [Language]

• Set the language to use.

#### [Date]

• Set the current date.

#### [Date Format]

Select the date display format

#### [Date Separator]

 Set the separator come between year-month-date

#### [Time]

Set the current time

#### [Time Format]

• Select the time display format.

## [Day Light Saving]

Set the day light saving for the applied countries.

ay Light Saving					
Start	FEB 💽	1st		SUN	
Finish	AUG -	Ist	-	SUN	-
			Iron-2		
			C	ancel	ок

## STEP 2.

© Motion, Alarm In		
Continuous		
Motion, Alarm In, Continuous		
Prev	Cancel	Next

### [Motion, Alarm In]

Motion / Alarm In Recording

## [Continuous]

Continuous Recording

#### [Motion, Alarm In, Continuous]

Motion / Alarm In / Continuous Recording

## STEP 3.

Best Quality				
High Qulity				
Normal Qulity				
Prev		Ca	incel I	Next

## [Best Quality]

Best recording quality

#### [High Quality]

High recording quality

## [Normal Quality]

Normal recording quality

## STEP 4.

Day Light Saving				
Static/DHCP	ū	HCP	- MAC	
IP Address	I			
Subnet Mask	I			
Gateway				
DNS Server	I			
TCP Port				
UDP Port	I			
HTTP Port				
Transmission Method By Speed	• Fr	os 25 -	Quality	BEST -
Prev			Cancel	Next

## [STATIC/DHCP]

- STATIC
- Network settings are configured manually by STATIC server
- DHCP
- Network settings are configured automatically by DHCP server

## [IP Address]

Set the IP Address

- Configured automatically by the DHCP mode

## [Subnet Mask]

- Set the Subnet Mask
- Configured automatically by the DHCP mode

## [Gateway]

- Set the Gateway address
- Configured automatically by the DHCP mode

## [DNS Server]

- Set the DNS Server address
  - Configured automatically by the DHCP mode

## [TCP Port]

- Enter the TCP Port number
- The default port is 7080

## [UDP Port]

- Enter the UDP Port number
  - The default port is 7081

## [HTTP Port]

Enter the HTTP Port number
The default port is 80

## [Transmission Method]

Set the Transmission Method

## STEP 5.

Day Light Saving	
DDNS Server Type	nsddns.org
DDNS Server	
DDNS Port	9438
User Domain Name	
System Domain Name	
User	
Password	
Key	
	Check
Prev	Cancel OK

## [DDNS Server Type]

- Set the DDNS Server Type
- Needed to register only when use user defined DDNS server
- Available DDNS servers
  - nsddns.org, dyndns.org, no-ip.com., zoneedit.com, freedns.afraid.org

## [DDNS Server]

Enter the DDNS Server address

## [DDNS Port]

- Enter the port number to access to the DDNS server
- The default port is 9438

#### [User Domain Name]

Enter the User Domain Name

#### [System Domain Name]

Enter the System Domain Name

## [User]

 Enter the User ID to access to the DDNS server

## [Password]

 Enter the User password to access to the DDNS server

## [Key]

Need the connection certificate key value if use the freeDNS

## [Do Check]

 Verify availability of DDNS server setting

## 4.1.2 Recording

STEP 1.

Time Zone	UTC+09:00 Seoul, Tokyo
Language	English
Date	2014-06-03
Date Format	YYYYMMDD
Date Separator	/·
Time	15:27:47
Time Format	12 HOURS
Day Light Saving	Setting
	Cancel Next

## [Time Zone]

Set the time zone.

## [Language]

• Set the language to use.

#### [Date]

Set the current date.

## [Date Format]

• Select the date display format.

#### [Date Separator]

Set the separator come between year-month-date

## [Time]

Set the current time.

## [Time Format]

• Select the time display format.

#### [Day Light Saving]

• Set the day light saving for the applied countries.

STEP 2.

@Motion Alorm In		
⊛Motion, Alarm In		
Continuous		
Motion, Alarm In, Continuous		
Prev	Cancel	Next

### [Motion, Alarm In]

• Motion / Alarm In Recording.

## [Continuous]

Continuous Recording

#### [Motion, Alarm In, Continuous]

Motion / Alarm In / Continuous Recording

STEP 3.

⊚Motion, Alarm In		
Continuous		
Motion, Alarm In, Continuous		
Prev	Cancel	Next

## [Best Quality]

Best recording quality.

## [High Quality]

High recording quality

#### [Normal Quality]

Normal recording quality

## 4.1.3 Network

## STEP 1.

Day Light Saving	
Static/DHCP	DHCP MAC
IP Address	
Subnet Mask	
Gateway	
DNS Server	
TCP Port	
UDP Port	
HTTP Port	
Transmission Method By Speed	Fps <mark>25 · Quality BEST ·</mark>
Prev	Cancel Next

## [STATIC/DHCP]

- STATIC
- Network settings are configured manually by STATIC server
- DHCP
  - Network settings are configured automatically by DHCP server

## [IP Address]

- Set the IP Address
  - Configured automatically by the DHCP mode

## [Subnet Mask]

- Set the Subnet Mask
  - Configured automatically by the DHCP mode

## [Gateway]

- Set the Gateway address
  - Configured automatically by the DHCP mode

## [DNS Server]

- Set the DNS Server address
  - Configured automatically by the DHCP mode

## [TCP Port]

- Enter the TCP Port number
- The default port is 7080

## [UDP Port]

Enter the UDP Port number
The default port is 7081

## [HTTP Port]

Enter the HTTP Port number
The default port is 80

## [Transmission Method]

Set the Transmission Method

#### [MAC]

Shows MAC ADDRESS

## STEP 2.

Day Light Saving	
DDNS Server Type	nsddns.org
DDNS Server	
DDNS Port	9438
User Domain Name	
System Domain Name	
User	• • • • • • • • • • • • • • • • • • •
Password	
Key	
	Check
Prev	Cancel OK

## [DDNS Server Type]

- Set the DDNS Server Type
- Needed to register only when use user defined DDNS server
- Available DDNS servers
  - nsddns.org, dyndns.org, no-ip.com., zoneedit.com, freedns.afraid.org

## [DDNS Server]

Enter the DDNS Server address

## [DDNS Port]

- Enter the port number to access to the DDNS server
- The default port is 9438

## [User Domain Name]

Enter the User Domain Name

## [System Domain Name]

 Enter the System Domain Name you need when you want to connect via network

## [User]

 Enter the User ID to access to the DDNS server

## [Password]

 Enter the User password to access to the DDNS server

## [Key]

Need the connection certificate key value if use the freeDNS

## [Do Check]

 Verify availability of DDNS server setting

## 4.2 System

4.2.1 General

## 4.2.1.1 Date/Time Setting

Time Zone	UTC+09:00 Seoul, Tokyo
Language	English
Date	2014-06-03
Date Format	YYYYMMDD
Date Separator	/
Time	15:27:47
Time Format	12 HOURS
Day Light Saving	Setting
	Cancel Next

#### [Time Zone]

Set the time zone.

#### [Language]

• Set the language to use.

#### [Date]

Set the current date.

#### [Date Format]

Select the date display format.

#### [Date Separator]

 Set the separator come between year-month-date.

#### [Time]

Set the current time.

#### [Time Format]

Select the time display format.

## [Day Light Saving]

Set the day light saving for the applied countries.

Day Light Saving					
Start	FEB	- 1st		SUN	
Finish	AUG	1st	÷	SUN	
				ancel	ок

## 4.2.1.2 Video

Date/Time	Video	Storage	Update	Admin
	Video Type	PAL		
	Display Resolution	1024	x768@60Hz	•
	СН01: 1080 р 30	C	H09 : 576 i 50	
	СН02: 1080 р 30	C	H10 : 576 i 50	
	СН03: 1080 р 30	C	H11 : 576 i 50	
	СН04: 1080 р 30	С	H12 : 576 i 50	
	СН05: 1080 р 30	C	H13 : 576 i 50	
	СН06: 1080 р 30	С	H14 : 576 i 50	
	СН07: 1080 р 30	С	H15 : 576 i 50	
	СН08: 1080 р 30	С	H16 : 576 i 50	

#### [Video Type]

Show Video Type.

## [VGA Resolution]

Set the VGA output resolution.

1920X1080 P60, 1920X1080 P50, 1920X1080 I50, 1920X1080 P30, 1440X900 @60Hz, 1366X768 @60Hz, 1280X800 @60Hz, 1024X768 @60Hz

#### [Video Input Type]

- Shows video input type from CH01 ~ CH16.
- Only for HD-SDI Models
- Only HD channels are showed for hybrid models

## 4.2.1.3 Storage

	_								
Date/	lime	Video	Storag	e	Update		Ad	min	
No	N	lodel, Serial No	Tot	al(GB)	Avail(G	B)	St	atus	
1	WDC,	WD-WCC3F089842	1	931	9		39°C	, Good	
2	WDC,	WD-WMC1S300899	B	931	9		41°C	, Good	
3									
4									
5									
6									
7									
8									
9									
10									
		When Storage Full		Overwrit	e	- R.	AID Not	used	-
			Erase /	All Data					
						Can	cel	OK	

## [When HDD is full]

- Overwrite
- Keep recording after deleting older data.
- Stop
- Stop recording.

#### [Erase All Data]

Erase all the HDD data

#### [RAID]

- Raid 1
- Raid 1 means mirroring, which store same data to every 2 HDDs
- HDD1 and HDD2 (HDD3 and HDD4 ...) have same data.
- If one of two HDD fails, the other one has data safely.
- HDD capacity use 50 % of total HDD capacity
- Raid 5
  - Raid 5 stores data to every 3 HDDs
  - If one of three HDD fails, the other two HDDs has data safely.
- HDD capacity use 66 % of total HDD capacity

#### We strongly recommend you use RAID1!

## 4.2.1.4 Update

## 4.2.1.4.1 Firmware Update

					_
Date/Time	Video	Storag	е	Update	Admin
	Current Version		v2.86	\$ (8-16-57)	
	USB Memory				Read USB
		Upd Advan			
				0	cancel OK

## [Current Version]

Shows current DVR version

#### [USB Memory]

• Shows version of the USB memory

#### [Update]

Update current version to new version of USB memory.

## [Advanced]

Update kernel

## 4.2.1.4.2 Kernel Update

Advanced			
	Type Time	Kernel -	
	Read	I USB	
	U.S.	Cancel	ок

## [Type]

Select kernel

### [Time]

Shows current kernel information installed

#### [USB Memory]

Shows version of the USB memory

## [Update]

Update current version to new version of USB memory.

## 4.2.1.5 Admin

Date/Time	Video	Storage	Update	Admin	
	DVR ID	0	*		
	DVR NAME				
	Auto Logout Time	Not U	sed		
		P60	Recording		
	Auto Restart	Not us	sed	•	
			Ca		
			<u> </u>	ncel OK	

## [DVR ID]

 Select the DVR ID which is used for remote controller. For remote controller, DVR id and remote controller's is should be same.

## [DVR Name]

Set the DVR Name.

#### [Auto Logout Time]

- Login status is valid during the period of auto logout time
- You don't need to login whenever you try to enter setup and so on
- Not Used / 1 Min / 5 Min / 10 Min / 30 Min / 60 Min are available

#### [P60 Recording]

- Enable/Disable P60 Recording
- If enabled, 60 fps setting is allowed on recording setting page

## [Auto Restart]

- Reboot system according to user setting
- Not used : Disable auto restart(Default)
- Daily : You can select restart time by 30 minutes interval
- Weekly : You can select restart time by weekday & 30 minutes interval
- Monthly : You can select restart time by day & 30 minutes interval

## 4.2.2 Account

## 4.2.2.1 New Group

lew Group	Edit Group	New User	Edit User	Checking
Group	Name			Add
Setup Playback Network Backup Shut down Lock			Camera for Ne 1 2 3 5 6 7 9 10 1 13 14 1	3 ⊠4 7 ⊠8 11 ⊠12

## [Group Name]

Type new group name

#### [Permission]

- Select the Setup / Playback / Network / Backup / Shutdown / Lock
- Select the permissions for the edited group.

#### [Add]

- Add new group with new permissions
- Maximum number is 8

#### [Camera for Network]

Select the cameras privileged for network

## 4.2.2.2 Edit Group

New Group	Edit Group	New User	Edit User	Checking
Grou Setup Playback Network Backup Shut down Lock	p Name adr	nin	Camera for No 1 2 2 5 6 2 9 10 2 13 14 2	3 ☑4 7 ☑8 11 ☑12
			Ca	ncel OK

#### [Group Name]

• Select the group name to edit.

#### [Permission]

- Select the Setup / Playback / Network / Backup / Shutdown / Lock
- Select the permissions for the edited group.

#### [Delete]

• Delete the selected group name.

#### [Camera for Network]

Select the cameras privileged for network

## 4.2.2.3 New User

			_	
New Group	Edit Group	New User	Edit User	Checking
Use	r Name			Add
	Group Name	admir	n and a state of the	
	Password			
	Confirm			
			Ca	incel OK

#### [User Name]

• Enter new user name.

#### [Group Name]

- Select the group name for new user.
- User is allowed to use each group permission.

### [Password]

Type password

#### [Add]

Add new user

## 4.2.2.4 Edit User

New Oraces	Edia Occurre	New User	E da Unas	Ob a bit a
New Group	Edit Group	New User	Edit User	Checking
Use	er Name adm	nin	-	Delete
			_	
	Group Name	admir		Modify
	Old Password			
	New Password			
			Ca	ncel OK

#### [User Name]

Select user you want to edit

#### [Group Name]

Select new group you want

#### [Modify]

Modify user setting

#### [Old Password]

Type old password

#### [New Password]

Type new password

## 4.2.2.5 Checking

New Group	Edit Group	New User	Edit User	Checking
Check when fol	lowings			
⊠Setup				
⊠Setup ⊠Playback ⊠Network				
⊠Backup ⊠Shut down ⊠Lock				
			Ca	ncel OK

## [Checking Setting]

Select whether you will require ID & password or not.

# 4.2.3 Log

4.2.3.1 Log

Log	Setup				
Tim	e	Event	User	Remote	
2014-06-03	15:27:45	Setup Enter	admin		
2014-06-03	15:24:20	Setup Enter	admin		
2014-06-03	15:20:10	Setup Enter	admin		
2014-06-03	15:19:05	DVR Start			
2014-06-03	15:17:38	Setup Enter	admin		
2014-06-03	15:17:26	Setup Exit			
2014-06-03	15:17:24	DVR Start			
2014-06-03	15:15:39	Setup Enter	admin		
2014-06-03	15:15:35	Setup Exit			
2014-06-03	15:14:24	Setup Enter	admin		
2014-06-03	15:14:15	No Video	), 11, 12, 13, 14, 15		
4					
		Copy L	.og to USB		
				Cancel	OK

[Copy Log to USB]Copy Log data to USB.

## 4.2.3.2 Setup

Log	Setup				
	_	Copy Setup To USB			
	_				
		Copy Setup From USB			
		Default			
			Cancel	ОК	

#### [Copy Setup To USB]

Copy Setup data to USB

### [Copy Setup From USB]

Copy Setup data from USB to DVR

#### [Default]

Set DVR setup information to factory default

Setup	
Are you sure to a	hange setup to default?
Cancel	ОК

## 4.2.4 Backup

## 4.2.4.1 H264 Backup

Backup				
Recording Pe	riod	2014-06-08 14:	05:24 ~ 2014-06-09 16	:57:23
Period	2014-06-08 🔒	14:05:24 🗧 📖 💂	2014-06-09 🗧 16:5	7:23
Туре	H264	•	Copy To USB	-
Save As		save	.exe	
Camera 🗾		8 <b>4 5 6</b> 11 12 13 14	7 8 15 16	AII
Estima	te			
		Backup		
			Cancel	ОК

#### [H264 Backup]

Backup video clip according to cameras selected and period set

#### [Recording Period]

Show current recorded period

#### [Period]

Set begin time and end time you want to backup

## [Type]

Select JPG or H264 as a backup file format

#### [Copy To]

Set destination device

#### [Save As]

Type filename

#### [Camera]

Select cameras you want to backup

## [Estimate]

Estimate space needed for your backup

## [Do backup]

Start backup

## 4.2.4.2 JPG Backup

Backup				
Recording	g Period	2014-06-08	14:05:24 ~ 2014-06-09 1	6:57:23
Туре	JPEG	-	Copy To USB	
Save As		save	.jpg	
Camera			6 7 8 14 15 16	
		Backup		
			Cancel	ОК

## [JPG백업]

Save current background image as JPG format

#### [Period]

• Set the start/end date and time.

#### [Copy to]

Select a backup device, USB memory or CD/DVR-R

#### [Save as]

• Set the backup file name.

#### [Camera]

- Only 1 camera should be selected at the same time
- Only cameras existed in a current background split mode are available

#### [Do backup]

Starts backup.

## 4.3 Recording

## 4.3.1 Setting

## 4.3.1.1 Camera

Camera		PTZ		KBD/	POS		Priv	acy		IP Cam	
Recording	Туре		Continu	ous	-			Fi	xed GOP		
On	N	ame	Per	riod	Res		F	ps	Qua	lity	
	CAM1				1080P	-	30	-	BEST	-	
2 🖪	CAM2				1080P	-	30		BEST	-	
3	CAM3				1080P		30		BEST		
4 🛛	CAM4				1080P	-	30		BEST	-	
5 🖪	CAM5				1080P	-	30	-	BEST	-	
6 🛛	CAM6				1080P		30		BEST		
7 📱	CAM7				1080P	-	30	-	BEST	-	
8 🖪	CAM8				1080P	-	30		BEST		
<<		>>									

#### [Recording Type]

- Continue
  - Record continuously
- Event
- Record only when event occur
- Pre-Event
- Record data before event occur

## [On]

Enable/Disable camera

#### [Name]

Type camera name

#### [Period]

Set period for event/pre-event

#### [Resolution]

Set recording size

#### [Frame]

Set recording frame rate

#### [Quality]

Set recording video quality

#### [Audio]

Enable/Disable audio recording

[Fixed GOP]

## 4.3.1.2 PTZ

Ca	amera		F	PTZ	КВ	D/POS		Priva	cy		IP	Cam	
	On		ID	Proto	ocol	Baudi	ate	Databi	it	Stopb	it	Parit	y
1		0	-	PELCOD	-	2400		DATA8		STOP1	-	None	•
2		0	-	PELCOD	-	2400	-	DATA8	•	STOP1	-	None	-
3		0	-	PELCOD	-	2400		DATA8	•	STOP1	-	None	•
4		0	-	PELCOD		2400	-	DATA8	-	STOP1	-	None	•
5		0	-	PELCOD	-	2400	-	DATA8	-	STOP1	-	None	-
6		0	-	PELCOD	-	2400		DATA8	-	STOP1	-	None	-
7		0	-	PELCOD	-	2400	-	DATA8	-	STOP1	-	None	•
8		0	-	PELCOD	-	2400	-	DATA8	~	STOP1	•	None	•
	<<		>	>						Cancel		г ОК	
0n]	ble/D				-	otoco	-	rotoco		[D	at	<b>abit]</b> t data	bi

[ID]

- Set PTZ ID
- [Baudrate] • Set baud rate

[Stopbit]

Set stop bit

## [Parity]

Set parity bit

## [Tour ...]

- DVR handle touring schedule without using camera's touring
- You can start touring by PTZ mode on the live screen mode

	Camera 1 Tour 1 ·
Preset	- 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110 - 110
Sec	
Preset	Off -
Sec	
Time	00:00 - ~ 24:00 - Cancel OK
[Camera]	[Preset] [Time]
Camera NC	• ON/OFF Preset • Set Time
<b>[Tour]</b> ■ Tour NO	<b>[Sec]</b> ■ Set Time

## 4.3.1.3 Keyboard

Camera	PTZ	KBD/POS		Priva	CY		IF	' Cam	
On		Baudra	ite	Datab	it	Stopb	it	Parit	ty
1		2400	-	DATA8		STOP1	-	None	
1 POS/ATM		2400	-	DATA8	-	STOP1	-	None	
2 POS/ATM		2400	-	DATA8	-	STOP1	-	None	
3 POS/ATM		2400	•	DATA8	•	STOP1	•	None	
4 POS/ATM		2400	•	DATA8	•	STOP1	•	None	

## [On]

Enable/Disable keyboard controller

#### [ID]

Set keyboard ID

#### [Protocol]

Set PTZ protocol

## [Baudrate]

Set baud rate

#### [Databit]

Set data bit

#### [Stopbit]

Set stop bit

#### [Parity]

Set parity bit

## 4.3.1.4 Privacy

Camera	PTZ	KBD/PC	os	Privacy	IP Cam
	No	Hidden	Mosaic	Set	Cut Days
	1			Set	Not used
	2			Set	
	3			Set	
	4			Set	
	5			Set	
	6			Set	
	7			Set	
	8			Set	
	<<	>	·>		

## [No]

Camera number

## [Hidden]

- Hide each camera
- Hidden function hide whole camera.

#### [Mosaic]

- Mosaic mask specific region with black color.
- In order to use Mosaic, first check Mosaic checkbox, set region as you want to mask

## [Cut Days]

• For a private law, recording days is restricted by setting values.

## 4.3.1.5 IP Cam

			KBD/POS		Privacy	IP Cam
On	Set	IP Address	Port	ID	Password	Status
	Set	192.168.0.101	80	admin	admin	Fail!
	Set	192.168.0.102	80	admin	admin	Fail!
	Set	192.168.0.103	80	admin	admin	Fail!
	Set	192.168.0.104	80	admin	admin	Fail!
>	Set	192.168.0.105	80	admin	admin	Fail!
<b>&gt;</b>	Set	192.168.0.106	80	admin	admin	Fail!
	Set	192.168.0.107	80	admin	admin	Fail!
	Set	192.168.0.108	80	admin	admin	Fail!
	Set			admin admin	admin	Fail!

## [On]

Enable/Disable Camera

• if you enable IP channel on, this channel is used only for IP cam regardless of HD or Analog coaxial video input connected.

## [Status]

Shows "Success" when IP cam streaming is being transferred

 Basically, DVR try to get dual streaming from IP cam. If DVR succeed to get two streaming, it show "Success". If not, it shows "Fail"

streaming is transferred after IP cam detection and communication. So

"Success" message means all the things is successful.

[Quick]

- Quick button does following
  - Detect all IP cameras
  - Sort all IP cameras by IP address
  - Register each IP camera for each channel
  - Enable IP channel

•For Quick setting, DVR uses "Quick Password" for Quick processing. You should enter proper default password for your IP camera. Default is "admin"

•You can use drag and drop on the live screen after setting IP camera to change position of IP cameras

## 4.3.1.5.1 IP Cam Set

On No Info IP Address Port   1 2 2   3 4   4 4   5 Change IP Cam   6 IP Address   192.168.0.101   Port   8   Subnet Mask   255.255.255.0   Gateway   192.168.0.1   DNS Server   202.96.128.86		Ca			
6     Change IP Cam     DHCP       6     IP Address     192.168.0.101       7     User     admin       8     Subnet Mask     255.255.255.0       Gateway     192.168.0.1	1 2 3 4		No Info	IP Address	Search
	6 7	6 🖸 7 🖸	IP Address User Subnet Mask Gateway	admin 255.255.255.0 192.168.0.1	Port 80 Password admin MAC

How to register IP cam

- 1. Select IP camera you want to assign to this channel
- 2. Click Add button
- 3. Enter User ID("admin" is default for most iP cam)
- 4. Enter Password("admin" or "12345" is default for most iP cam)
- 5. Click OK button

#### [Search]

Restart probing for IP camera

Use this button only when some IP camera is not detected

## [Add]

• Add selected IP cam to this channel

## [Change IP Cam]

- Change IP address of IP cam.
- It is recommended you use additional tools to change IP address of IP cams
- Additional tools for IP cam is provided by CD-ROM

• If you want to this function, you should contact to our technical team.

#### [DHCP] • Set DHCP

[IP Address] • Set IP

[User] Set User

## [Subnet Mask]

- Set Subnet Mask
- [Gateway] Set Gateway

[DNS Server] • Set DNS Server

#### [Port]

Set Port

[Password] Set Password

## 4.3.2 Motion

Motion						
	No	Sensitivity		All Area	Set	
	1	High	-		Set	
	2	High	-		Set	
	3	High	-		Set	
	4	High	-		Set	
	5	High	-		Set	
	6	High	-		Set	
	7	High	-		Set	
	8	High	-		Set	
	<<	>>				

## [No]

Camera number

#### [Sensitivity]

Select motion sensitivity

## [All Area]

Select all area as a motion detection area

## [Set]

Set motion detection area

## 4.3.2.1 Motion Area Setting



## [Set All]

Select All region

### [Clear All]

Clear All region

#### [Copy to All]

• Copy this region set to all other channels.

## [Save & Exit]

Exit after saving this region

## [Exit]

Exit without saving this region

## [Cancel]

Close window
# 4.3.3 Schedule

### 4.3.3.1 Schedule

So	hed	lule			Н	olid	ay																	
Car	nera	a										1												
	Cont	inu	ous		A	II Ev	vent	s(M	otic	on, /	Alar	m lı	n, Pa	anic)	)					Pre	Red	;		
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
SUN																								
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								
H/D																								
										A	\ppl	y To	) All											
																	[	Са	nce			0	К	

• You can set the schedule by hour, week, holiday

#### [Camera]

Select camera you want to set

#### [Continuous]

- Record camera continuously
- Set the schedule continuously

#### [All events]

- Record camera only when event occurs
- Set the schedule by event

#### [PreRec]

- Record camera before event occurs
- Set the schedule by pre-event (PreRec can be selected only with other event mode.)

#### [Apply To All]

Apply current setting to all other cameras

#### [Hours : 00 ~ 23]

Apply selected mode to selected hours

#### [Weekday : Sun ~ Sat, Holiday]

- Apply selected mode to selected weekday
- Holiday is selected by 4.3.3.2

#### [Apply To All]

Apply current setting to all other cameras

#### [No Recording]

- No recording when this is checked
- Only live monitoring is available when this is checked

### 4.3.3.2 Holiday

S	chedule	Holid	ay					
1	June	2					2014 🗈	
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
	1	2	3	4	5	6	7	
	8	9	10	11	12	13	14	
	15	16	17	18	19	20	21	
	22	23	24	25	26	27	28	
	29	30	1	2	3	4	5	
	6	7	8	9	10	11	12	
				Add				
	-	-		G	-			
	_	_	_	_	_	_	_	
				Delete				
						Cancel	ОК	

#### [Add]

Add new holiday

#### [Delete]

Delete selected holiday

# 4.4 Network

# 4.4.1 General

### 4.4.1.1 Setting

Day Light Saving		
Static/DHCP	DHCP	- MAC
IP Address		
Subnet Mask		-
Gateway		
DNS Server		_
TCP Port		
UDP Port		_
HTTP Port		
Transmission Method By Speed •	Fps <mark>25</mark> -	Quality BEST -
Prev		Cancel Next

#### [STATIC/DHCP]

- STATIC
- Set network to static mode
- DHCP
  - Set network to DHCP mode

#### [IP Address]

- Set IP address
- Auto detected for DHCP mode

#### [Subnet Mask]

- Set subnet mask
- Auto detected for DHCP mode

#### [Gateway]

- Set gateway address
- Auto detected for DHCP mode

#### [DNS Server]

- Set DNS server address
- Auto detected for DHCP mode

#### [TCP Port]

- Set TCP port number
- Default is 7080

#### [UDP Port]

- Set TCP port number
- Default is 7081

#### [HTTP Port]

- Set HTTP port number
- Default is 80

#### [Transmission Method]

- Select By Quality if you want to high quality
- Select By Speed if you want to high transmission speed

#### [Fps]

- Frames for network transmission
  [Quality]
- Quality for network transmission
- [MAC]
- MAC ADDRESS

### 4.4.1.2 NTP

Setting	NTP	UPnP			
conting					
	NTP Server	pool.nt	p.org		
	NTP Server Time			Query	
	NTP Port	123			
	Update	10 Min	-		
		Auto	Sync		
		Sync To Server			
			C	Cancel OK	

#### [NTP Server]

Type NTP server name

#### [NTP Server Time]

• [Query] Click button and NTP server time is displayed

#### [NTP Port]

- Set NTP port number
- Default is 123

#### [Update]

Set auto update time interval

#### [Auto Sync]

Select whether you use auto sync

#### [Sync To Server]

Sync DVR time to NTP server time

### 4.4.1.3 UPnP

### [UPnP]

Click button and UPnP function is enabled

## 4.4.2 DDNS

	_		
DDNS			
	DDNS Server Type	nsddns.org	Auto Sync
	DDNS Server		
	DDNS Port	9438	
	User Domain Name		
\$	System Domain Name		
	User		
	Password		
	Key		
		Check	
			Cancel OK

### [DDNS Server Type]

- Set the DDNS Server Type
- Needed to register only when use user defined DDNS server
- Available DDNS servers
  - nsddns.org, dyndns.org, no-ip.com., zoneedit.com, freedns.afraid.org

#### [DDNS Server]

Enter the DDNS Server address

#### [DDNS Port]

- Enter the port number to access to the DDNS server
- The default port is 9438

#### [User Domain Name]

Enter the User Domain Name

#### [System Domain Name]

 Enter the System Domain Name you need when you want to connect via network

#### [User]

 Enter the User ID to access to the DDNS server

#### [Password]

 Enter the User password to access to the DDNS server

#### [Key]

Need the connection certificate key value if use the freeDNS

#### [Do Check]

 Verify availability of DDNS server setting

# 4.4.3 E-Mail

### 4.4.3.1 Receiver

Receiver	Sender	Attach	
	Receive	r 📃	
		Add	
_	_		
		Del	

#### [Receiver]

Type Receiver email address

#### [Add]

• Add new receiver

#### [Del]

Delete selected receiver

### 4.4.3.2 Sender

Receiver	Sender	Attach
	SMTP Server Type	mail.nsddns.org
	SMTP Server	
	SMTP Port	587
		Use SSL Connection
	User	
	Password	
		Cancel OK

#### [SMTP Server Type]

Select SMTP server type

#### [SMTP Server]

Type SMTP server address

### [SMTP Port]

• Set SMTP Port number

#### [SSL]

Check if your SMTP server supports SSL

#### [User]

Type user name

#### [Password]

Type password

### 4.4.3.3 Attachment

Receiver	Sende	r Atta	ch		
	E-mail Attac	hment	JPG	•	
Hours	for E-mail				
☑00:00~	01:00	☑01:00~02:00	<b>∞</b> 02:00~03:00	☑03:00~04:00	
☑04:00~	05:00	<b>₩05:00~06:00</b>	₩06:00~07:00	₩07:00~08:00	
☑08:00~	09:00	☑09:00~10:00	☑10:00~11:00	☑11:00~12:00	
<b>12:00</b> ~	13:00	☑13:00~14:00	☑14:00~15:00	☑15:00~16:00	
☑16:00~	17:00	☑17:00~18:00	☑18:00~19:00	☑19:00~20:00	
<b>20:00</b> ~	21:00	<b>21:00~22:00</b>	<b>22:00~23:00</b>	<b>23:00~24:00</b>	
				Cancel OK	

#### [Email Attachment]

- Set attach type for email
- None : No file attached when email
- JPG : JPG capture image attached sent when email

#### [Email allowance hours]

- You can set the hours when you want to receive email
- Email is not sent for hours which are not selected.

# 4.5 Alarm

## 4.5.1 Alarm

4.5.1.1 Alarm In

9 10 11 12 13 14 15 16	Alarm In	Ala	arm Out							
9 10 11 12 13 14 15 16 Narm Out 1 2 3 4 5 6 7 8	Alarm In			1	-	-	Y	Enabled		
Alarm Out 1 2 3 4 5 6 7 8	Camera	⊠1	2	3	<b>4</b>	5	6	7	8	
		9	10	11	<b>1</b> 2	13	14	<b>1</b> 5	16	
9 10 11 12 13 14 15 16	Alarm Out	1	2	3	4	5	6	7	8	
		9	10	11	12	13	14	15	16	
Buzzer Full Screen	Buzzer					Full Sci	reen			
E-Mail	E-Mail									
									Apply 1	Fo All

#### [Alarm In]

Select Alarm In number

#### [Enabled]

Set Enable/Disable

#### [Camera]

Select camera to be recorded when alarm

#### [Alarm Out]

Select Alarm Out to be triggered when alarm

#### [Buzzer]

Enable/Disable Buzzer when alarm

#### [Full Screen]

Enable/Disable Full screen mode when alarm

#### [E-Mail]

Enable/Disable email transmission when alarm

## 4.5.1.2 Alarm Out

Alarm In	Alarm C	Dut							
	No		Туре		P	eriod			
	1	N/C	_	-	05				
	2	N/C		•	05		-		
	3	N/C		-	05		-		
	4	N/C		-	05		-		
	5	N/C		-	05		-		
	6	N/C		-	05		-		
	7	N/C		-	05		-		
	8	N/C		-	05		•		
		<	<		>>				
						Can	cel	OK	

[**Type]** • Select Alarm In Type

[Period]Set Alarm Out period

# 4.5.2 Motion

Motion									
Motion			1	-	•		Enabled		
Camera	⊠1	2	3	<b>4</b>	5	6	7	8	
	9	10	11	<b>12</b>	13	14	15	16	
Alarm Out	1	2	3	4	5	6	7	8	
	<b>9</b>	10	11	12	13	14	15	16	
Buzzer					Full Sc	reen			
E-Mail									
	-	-	-	-		-			
								Apply To	All

#### [Motion]

Select Motion number

#### [Enabled]

Set Enable/Disable

#### [Camera]

Select camera to be recorded when motion

#### [Alarm Out]

Select Alarm Out to be triggered when motion

#### [Buzzer]

Enable/Disable Buzzer when motion

#### [Full Screen]

Enable/Disable Full screen mode when motion

#### [E-Mail]

Enable/Disable email transmission when motion

# 4.5.3 POS/ATM

	POS/ATM								
	POS/ATM			1		•		Enabled	
	Camera	⊡1	2	3	4	5	6	7	8
		9	10	11	<b>1</b> 2	13	14	15	16
ų.	Alarm Out	1	2	3	4	5	6	7	8
		9	10	<b>1</b> 1	12	13	14	15	16
	Buzzer					Full Sci	reen		
	E-Mail								
									Apply To All
								Can	cel OK

#### [POS/ATM]

Select POS/ATM number

#### [Enabled]

Set Enable/Disable

#### [Camera]

Select camera to be recorded when POS/ATM

#### [Alarm Out]

Select Alarm Out to be triggered when POS/ATM

#### [Buzzer]

Enable/Disable Buzzer when POS/ATM

#### [Full Screen]

Enable/Disable Full screen mode when POS/ATM

#### [E-Mail]

Enable/Disable email transmission when POS/ATM

## 4.5.4 No Video

		1									
No	o Video										
No	Video			1		•		Enabled			
Ala	rm Out	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>		
E	Buzzer										
E	-Mail										
									Apply	To All	
								Can	cel	OK	

#### [No Video]

Select No Video Camera Number

#### [Enabled]

Set Enable/Disable

#### [Alarm Out]

Select Alarm Out to be triggered when No Video

#### [Buzzer]

Enable/Disable Buzzer when No Video

#### [E-Mail]

Enable/Disable email transmission when No Video

# 4.5.5 Abnormal

Abnormal										
Abnormal			S.M.A.R	.T	-		Enabled			
							-7			
Alarm Out	<b>1</b>	<b>2</b> 10	<b>3</b>	<b>4</b> 12	<b>5</b> 13	<b>6</b>	<b>7</b>	<b>8</b>		
Buzzer										
E-Mail										
							Can	cel	OK	

#### [Abnormal]

Select abnormal type

#### [Enabled]

Set Enable/Disable

#### [Alarm Out]

Select Alarm Out to be triggered when each abnormal type

#### [Buzzer]

Enable/Disable Buzzer when each abnormal type

#### [E-Mail]

Enable/Disable email transmission when each abnormal type

# 4.6 View

# 4.6.1 OSG

### 4.6.1.1 System

System Live	Cam Live	Cam Search		
Storage On				
<b>⊠Time On</b>				
Spot On				
PTZ On				
<b>⊠Keyboard On</b>		Font Size	20 -	
Sequence On		Border		
<b>⊠Network On</b>		Bubble Me	nu	
		All		
			Cancel	ОК

#### [Storage]

Enable/Disable storage Icon

#### [Time]

Enable/Disable time Icon

#### [Spot]

Enable/Disable spot Icon

#### [PTZ]

Enable/Disable PTZ Icon

#### [Keyboard]

Enable/Disable keyboard Icon

#### [Sequence]

Enable/Disable sequence Icon

#### [Network]

Enable/Disable network Icon

#### [Font Size]

Set Font Size

#### [Border]

Set Border

#### [Bubble Menu]

Set Bubble Menu

#### [All On]

Enable/Disable All

### 4.6.1.2 Live

System Live	Cam Live	Cam Search	
🗹 Camera Name			
Schedule			
Recording			
Audio			
MPTZ			
		All	
			Cancel OK

#### [Camera Name]

Enable/Disable Camera Name

#### [Schedule]

Enable/Disable schedule icon

#### [Recording]

Enable/Disable recording icon

#### [Audio]

Enable/Disable audio icon

#### [PTZ]

Enable/Disable PTZ icon

#### [All On]

Enable/Disable All

### 4.6.1.3 Search

System Live	Cam Live	Cam Search		
Time On				
🗹 Camera Name				
Resolution				
Fps				
Quality				
Schedule				
		All		
			Cancel	OK

#### [Time]

Enable/Disable Time

#### [Camera Name]

Enable/Disable camera name

#### [Resolution cording]

Enable/Disable resolution icon

#### [Fps]

Enable/Disable frame rate

#### [Quality]

Enable/Disable video quality

#### [All On]

Enable/Disable All

# 4.6.2 POS/ATM

### 4.6.2.1 Live

Live	Search	Network		
🗹 Pos Data On				
			Cancel	] ок

[POS Data On]Enable/Disable POS display

### 4.6.2.2 Search

Live	Search	Network		
🗹 Pos Data On				
			Cancel	OK
			Cancer	OK

#### [POS Data On] Enable/Disable POS display

### 4.6.2.3 Network

Live	Search	Network		
🗹 Pos Data On				
			Cancel	ОК

[POS Data On]Enable/Disable POS display

# 4.6.3 Main Monitor

### 4.6.3.1 1 Division

1 Div	4 Div	9 Div		
Full Screen				
Camera	<b>⊠1 ⊠</b> 2 ∣	<b>⊠</b> 3 <b>⊠</b> 4 <b>⊠</b> 5	<b>6 7 8</b>	
Period	3 - 3 -	3 - 3 - 3 -	3 - 3 - 3 -	
	<b>9 1</b> 0	<b>⊠11 ⊠12 ⊠13</b>	<b>⊠14 ⊠15 ⊠16</b>	
	3 ~ 3 ~	3 - 3 - 3 -	3 - 3 - 3 -	
			Cancel	ОК

#### [Camera]

Select cameras you want to show

#### [Period]

### 4.6.3.2 4 Division

1 Div		4 Div		9 Div					
Page 1 of 4 Di	vision				P	eriod	3	•	
Camera	⊠1	2	⊠3	<b>⊠4</b>	5	6	7	8	
	9	10	11	12	13	14	15	<b>16</b>	
Page 2 of 4 Division					Р	eriod	3	•	
Camera	1	2	3	4	≤5	<b>⊠</b> 6	<b>⊠</b> 7	≥8	
	9	10	11	<b>12</b>	13	14	15	16	
Page 3 of 4 Div	vision				Р	eriod	3	-	
Camera	1	2	3	4	5	6	7	8	
	<b>9</b>	<b>1</b> 0	<b>1</b> 1	<b>1</b> 2	13	14	15	16	
Page 4 of 4 Di	vision				Р	eriod	3	-	
Camera	1	2	3	4	5	6	7	8	
	9	10	<b>11</b>	<b>1</b> 2	<b>1</b> 3	<b>1</b> 4	<b>1</b> 5	16	
							Can	cel	ОК

#### [Camera]

Select cameras you want to show

#### [Period]

### 4.6.3.3 9 Division

1 Div		4 Div		9 Div						
Page 1 of 9 Di	vision				P	eriod	3	-		
Camera	<b>1</b>	≥2	3	₩4	<b></b> ∑5	6	7	≥8		
	⊠9	10	11	12	13	14	15	16		
Page 2 of 9 Di	vision				Р	eriod	3	•		
Camera	1	2	3	4	5	6	7	8		
	9	<b>1</b> 0	<b>11</b>	<b>1</b> 2	<b>1</b> 3	<b>1</b> 4	<b>1</b> 5	<b>1</b> 6		
							Can	cel	OK	

#### [Camera]

Select cameras you want to show

#### [Period]

# 4.6.4 Multi Spot

### 4.6.4.1 1 Division

1 Div	4 Div	9 Div	
Full Screen		Enabled	
Camera	<b>⊻1 ⊻</b> 2	<b>3 4 5</b>	6 7 8
Period	3 - 3 -	3 - 3 - 3 -	3 - 3 - 3 -
	<b>9 1</b> 0	<b>⊠11 ☑12 ☑13</b>	<b>14 15 16</b>
	3 - 3 -	3 - 3 - 3 -	3 - 3 - 3 -
			Cancel OK

#### [[Enable]

- Enable/Disable Mutil Spot
- If you check "Enabled", composite video output port is used for multispot

 In this case, composite video out show multi spot independently regardless of main screen

#### [[Camera]

Select cameras you want to show

#### [Period]

### 4.6.4.2 4 Division

1 Div		4 Div		9 Div					
				3 014					
Page 1 of 4 Div	vision				Р	eriod	3	-	
Camera	⊡1	≥2	<b>3</b>	<b>⊠4</b>	5	6	7	8	
	9	10	<b>1</b> 1	12	13	14	15	16	
Page 2 of 4 Div	vision				Р	eriod	3	-	
Camera	1	2	3	4	≤5	<b>6</b>	<b>⊠</b> 7	8	
	9	10	11	<b>1</b> 2	13	14	15	16	
Page 3 of 4 Div	vision				Р	eriod	3	-	
Camera	1	2	3	4	5	6	7	8	
	≥9	<b>1</b> 0	<b>1</b> 1	<b>1</b> 2	13	14	15	16	
Page 4 of 4 Div	vision				Р	eriod	3	-	
Camera	1	2	3	4	5	6	7	8	
	9	10	<b>11</b>	<b>1</b> 2	<b>1</b> 3	<b>1</b> 4	<b>1</b> 5	☑16	

#### [Camera]

Select cameras you want to show

#### [Period]

### 4.6.4.3 9 Division

1 Div		4 Div		9 Div						
Page 1 of 9 Div	vision				P	eriod	3	•		
Camera	<b>1</b>	≥2	3	₩4	<b></b> ∑5	6	7	≥8		
	<b>9</b>	10	11	12	13	14	15	16		
Page 2 of 9 Div	vision				Р	eriod	3	-		
Camera	1	2	3	4	5	6	7	8		
	9	<b>1</b> 0	<b>11</b>	<b>1</b> 2	<b>1</b> 3	<b>14</b>	<b>1</b> 5	<b>16</b>		
							Can	cel	OK	

### [Camera]

Select cameras you want to show

#### [Period]

# 5. POS/ATM

# 5.1 Connection



#### [POS/ATM Connection]

- Use USB to Serial converter
- Shorter one is the first port for multiple converter.
- Maximum distance is 15 m for RS-232 cable

# 5.2 Setup

5.2.1 Setup

Camera	PTZ	KBD/POS		Priva	cy				
On	ID	Baudrat	е	Databi	t	Stopbi	t	Parity	y
1 🔲 0	-	2400	•	DATA8	•	STOP1	-	None	-
1 POS/ATM		2400	-	DATA8	-	STOP1	-	None	-
2 POS/ATM		2400	-	DATA8	+	STOP1	-	None	-
3 POS/ATM		2400	•	DATA8	+	STOP1	-	None	-
4 POS/ATM		2400	-	DATA8	•	STOP1	-	None	-
					1	Cancel	'n	ОК	

#### [Connection setup]

- Set Baudrate, Databit, Stop bit, Parity same to POS/ATM device
- Restart DVR after POS/ATM connection setup finished
- POS/ATM data is displayed on live and playback screen

### 5.2.2 Live

Live	Search	Network		
🗹 Pos Data On				
			Cancel	ОК

[POS Data]Turn On/Off POS data display on live mode

### 5.2.3 Playback

Live ☑Pos Data On	Search	Network		
Pos Data On				
			 Cancel	OK

#### [POS Data]

Turn On/Off POS data display on playback mode

# 6. Keyboard

# 6.1 Exterior



# 6.3 Functions





#### [Mouse]

Turn On/Off mouse

# ESC/POWER [ESC/POWER]

- Turn On/Off keyboard power
- Cancel or escape to previous mode
- Numbers

#### [Numpad]

Used for number input, camera id, PTZ setting



### [Function]

- F1~MENU/AUTO : control for Speed Dome Camera functions ( Prese t, Tour, Pattern, Scan, Auto)
- Menu : Used for controlling of PTZ menu



#### [LCD Display]

Number, system status, current function



#### [Joystick]

- For Up/down/left/right of PTZ
- For movement in the camera menu



#### [Control function]

- Hold : Lock the system( Password needed for unlock)
- SHIFT/TURBO : Maximum speed while shift pressed
- AUX : Turn AUX On/Off Press button for 3 ~ 4 seconds
- SET : Control Pan/Tilt menu
- IRIS Close, IRIS OPEN : Used to control the camera's aperture Zoom.



#### [Zoom]

Zoom / Unzoom



#### [Focus]

Focus Near / Far

# 6.4 System Configuration

# 6.4.1 For one unit (PTZ directly connected)



6.4.2 For one unit (1 Keyboard, 1 DVR, 1 Camera)





6.4.4 Configuration for multi units



# 6.5 Setup

## 6.5.1 DVR Setup

Date/Time	Video	Storage	Update	Admin
	DVR ID	0	and the second s	×
	DVR NAME			
	Auto Logout Time	Not Us	ed 🔹	
	Auto Restart	Not us	ed	

Set DVR ID on System -> General -> Admin

Camera	PTZ	KBD/POS		Priva	cy				
On	ID	Baudrate	2	Databi	it	Stopb	it	Parit	y
1 🔳 0	-	2400	-	DATA8	-	STOP1	-	None	•
1 POS/ATM		2400	-	DATA8	-	STOP1	-	None	•
2 POS/ATM		2400	•	DATA8	•	STOP1	-	None	•
3 POS/ATM		2400	-	DATA8	•	STOP1	-	None	-
4 POS/ATM		2400	•	DATA8	+	STOP1	-	None	-
						Cancel		_	

Set keyboard on Record -> Setting -> KBD/POS

Set keyboard on Record -> Setting -> KBD/POS

- 1. Check On
- 2. Set KEYBOARD ID
- 3. Set baudrate, databit, stopbit, paritybit





Setting is saved after selecting YES/NO by moving joystick up/down

### 6.5.2.3 PTZ Setup



Set PTZ setting on the keyboard when PTZ connected to keyboard Set PTZ setting on the DVR when PTZ connected to DVR
# <u>7. CMS</u>

# 7.1 CMS Login



ID and Password are required to prevent unauthorized access when run CMS

#### [User]

Select user

#### [Password]

- Type password.
- Default value is 1111

# 7.2 Starting screen

🚟 CMS				- • •
System Tool	Setup View <u>H</u> elp			
<u> </u>			25 36 49 64	 
Server List		ē ×		
Server List	Map List			
CMS Log				₽×
User	Date / Time	Message		
admin	2013/09/12 18:14:41	CMS start		
CMS Log	Server Event Log Se	rver System Log 📗 Server Syste	em Status Event List	
admin				

This is the first screen. You can check current CMS status.

## 7.2.1 Menubar



### 7.2.1.1 System



Menu of commands for CMS action.

[Exit] • Exit CMS.

### 7.2.1.2 Tools



CMS Tools

### 7.2.1.3 Setup

#### Setup View Help CMS Setup Server Setup Remote Setup Remote Upgrade

Manage CMS & DVR setting.

### 7.2.1.4 View



Show CMS & DVR logs.

#### [Search]

Playback recorded data.

#### [Calculator]

Calculate disk space needed

#### [File Corruption Checker]

Check and verify whether backup data is corrupted or not.

#### [EXE to AVI Converter]

Convert EXE format to AVI format

### [CMS Setup]

Setting CMS environments

#### [Server Setup]

Add/Edit/Delete DVR server

#### [Remote Setup]

Change remote DVR setup

#### [Remote Upgrade]

 You can upgrade DVR firmware by remote CMS

#### [Server List]

Shows server list

#### [Map List] Shows eMAP list

# [Server Log]

Shows DVR log

#### [Server Event Log] Shows DVR event log

#### [Server Status]

Shows the status of server

#### [CMS Log] Show CMS log

#### [View All] Show all logs.

### 7.2.1.5 Help

About CMS

[About CMS] Information of CMS

Show CMS & DVR Information.

## 7.2.2 Tool bar



Changes DVR display format.



Exit
 Exit CMS.



### 1 division

- Changes screen to full screen



# 4 division Changes screen to 4 division screen



#### 6 division

- Changes screen to 6 division screen



# 8 division Changes screen to 8 division screen

- Changes screen to o division s



#### 9 division

- Changes screen to 9 division screen



#### 13 division

- Changes screen to 13 division screen



#### 16 division

- Changes screen to 16 division screen



#### 20 division

- Changes screen to 20 division screen.



#### 25 division

- Changes screen to 25 division screen



- 36 division
  - Changes screen to 36 division screen



- 49 division
- Changes screen to 49 division screen



#### 64 division

- Changes screen to 64 division screen



#### 121 division

- Changes screen to 121 division screen



- 256 division
- Changes screen to 256 division screen

## 7.2.3 Server List



# Setup – You connect DVR registered in Server Setup

Click mouse right button to show menu

#### [Connect]

Connect to DVR

#### [Disconnect] Disconnect DVR

Event Onl

#### [Event On]

Enable Event transmission

#### [Event On]

Disable Event transmission

#### [Search]

Run search window

#### [Connect ALL]

Connect to all server

#### [Disconnect ALL]

- Disconnect all server connected
- •[Edit Server]
- Edit server information
- Available only when disconnected

#### [DVR Remote desktop]

 You can control DVR remotely while you see DVR screen (Some DVR models do not show camera)

### 7.2.4 Video context menu

۲

۲



Display Page Audio Enable

Mic On

Ptz Control

Preset Control

- High Quality
- Normal Quality
- Frame Mode

SnapShot

Instant Play

Click mouse right button on camera.

#### [Full Screen]

Change selected camera to full screen

#### [Display Page]

Shows next page of current split mode

#### [Audio Enable] • Enable audio function

Enable audio functio

#### [Audio Disable]

Disable audio function

#### [PTZ Control]

Enable PTZ mode

#### [Preset Control]

Preset memory and go to

#### [High Quality]

Set video quality to high

#### [Normal Quality]

Set video quality to normal

#### [Frame Mode]

- Changes frame mode for network transmission
- Frame mode are 1X, 2X, 4X

#### [Snapshot]

Save current camera image to jpg

#### [Instant Playback]

Playback recorded video of 3 minutes before

# 7.2.5 Log Window

### 7.2.5.1 CMS Log

CMS Log			₽×
User	Date / Time	ge	
admin	2013/01/17 16:44:59	tart	
CMS Log	Server Event Log Server Sy	Server System Status Event List	

#### Shows CMS log

### 7.2.5.2 Server Event Log

Server Liven	t Log						8>
Server	Camera	Event	Date / Time	Message			

Shows DVR event log

### 7.2.5.3 Server System Log

Server Syste	em Log			₽×
Server	User	Date / Time	Message	
		r		
CMS Log	Server Event Log	Server System Log	Server System Status Event	nt List

#### Shows DVR log

### 7.2.5.4 Server System Status



Shows current DVR system status

### 7.2.5.5 Event List

Event List		8 ×
		Server Camera
🗹 Alarm	V Motion	Type Time
CMS Log Server Event Log	Server System Log Server System Status Event List	

Shows current DVR Event List

# 7.3 Search 7.3.1 Tools



### Search recorded date of DVR

Click Tool - Search button



### 7.3.1.1 DVR Connection



You need to connect first for playback.

Search is independent with live monitoring.

### [Connect]

Connect to DVR.

#### [Disconnect]

Disconnect selected DVR.

#### [Event On]

Turn on event transmission

#### [Event Off]

Turn off event transmission

#### [Search]

Run search window

#### [Connect ALL]

Connect to all server

#### [Disconnect ALL]

Disconnect all server connected

#### [Edit Server]

- Edit server information
- Available only when disconnected

#### [DVR Remote desktop]

 You can control DVR remotely while you see DVR screen (Some DVR models do not show camera

### 7.3.1.2 Search mode



#### [Time]

Search by date & time you want to playback

#### [Event]

Search by event

#### [ATM/POS]

Search ATM/POS text data and recorded data

#### [Bookmark Search]

Search and playback recorded data bookmarked of DVR

#### [Thumbnail Search]

Search and playback recorded data by hours / minutes

#### [Intelli-Search]

Search and playback recorded data by the region motions occur

### 7.2.1.3 Recorded dates



Shows recorded dates of DVR when you connect to DVR

### 7.3.1.4 Playback buttons



**Playback buttons** 



I frame backward

- backward 1 frame



#### Rewind

- Rewind backward



#### ■ Play

- Play forward
- Pause
  Pause playback



Fast Forward
 Fast Forward



1 frame forward
 - play 1 frame forward

Load bookmark
 Load bookmark list of DVR

# 7.3.2 Search tools

\Xi CI	MS																											-	- ×
(>)	Time		Eve	ent	م 🚺	TM/P	OS	🙀 Bo	okmark		T T	numbna	il	🙈 Int	elli-Sea	arch													
										-																			
201	4-06-0	02 🌻			27 【		Set		$\triangleleft$		K	1					$\ge$		$\gg$										
0			<u>1</u> , 20		-	0 5			H		E																		
<mark>일</mark> 25	<b>월</b> 26	화 27	<b>수</b> 28	목 29	금 30	토 31	<b>n</b>	×2		×8	×16		×64																
1	20	3	4	29 5	30 6	<sup>31</sup>													Т		Τ	T	Т	T		Т	Т	Т	
8	9	10	11	12	13	14																							
15	16	17	18	19	20	21																							
22	23	24	25	26	27	28																							
29	30	1	2	3	4	5		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
								-	•		Ĭ			, i	•												-		

- Search by selection of the date and time
- Timebar data is displayed by hours after user choose the date
- Playback starts after user press playback button after setting up time, division mode, playback speed

### **Division buttons**



1	_	_	_	-	1
	11				1
				H	ш
					Ш

#### 1 Division

- Changes screen to 1 channel full screen

1	10000	1	1
8			1
1		11	ı
			ı

- 4 Division
  - Changes screen to 4 division screen

I	10	100	10	1
1	15	155	10	1
1		100	10	1

- 9 Division
  - Changes screen to 9 division screen



#### 16 Division

- Changes screen to 16 division screen

### Playback speed control



### Timebar



You can click proper position of timebar when you want to go search tome quickly.

# 7.3.3 Event search tools

_	٨S												
Ð	Time		Eve	nt	N 🕄	TM/P	OS 🛛 🙀 Bookmark	📰 Thumbnail 🛛 🙀	Intelli-Search				
											Motion List		
01	-06-0	12 🛓	오후	1:08:	27		Set 😽						
01	<u>1</u> -06-0		오후 . 20		27 🛃		Set Start Date/Time		End Date/Time				
	1-06-0 월				27 🗧			호전 12:00:00 문	End Date/Time		4		
		6월	!, 20	14		0	Start Date/Time 2014-05-02 Select Camera		2014-06-02	춫 오후 1:08:27	4		
;	uł0	6월 화	! <u>2</u> 0	14 목	금	<b>्</b>	Start Date/Time 2014-05-02 Select Camera Camera 1	📄 Camera 2	2014-06-02	<ul> <li>♀ 오후 1:08:27</li> <li>☐ Camera 4</li> </ul>	4		
l ō	월 26	<mark>6월</mark> 화 27	<mark>、20</mark> 수 28	14 목 29	금 30	ی ج 31	Start Date/Time 2014-05-02 Select Camera Camera 1 Camera 5	Camera 2	2014-06-02	<ul> <li>☆ 오후 1:08:27</li> <li>○ Carnera 4</li> <li>○ Carnera 8</li> </ul>			
5	월 26 <b>2</b> 9	6별 화 27 3 10	20 ☆ 28 4 11	14 목 29 5 12	금 30 6 13	<ul> <li>₽</li> <li>₽</li> <li>31</li> <li>7</li> <li>14</li> </ul>	Start Date/Time 2014-05-02 Select Camera Camera 1 Camera 5 Camera 9	Camera 2 Camera 6 Camera 10	2014-06-02 Camera 3 Camera 7 Camera 11	<ul> <li>☆ 오章 1:08:27</li> <li>○ Camera 4</li> <li>○ Camera 8</li> <li>○ Camera 12</li> </ul>	<b>र्</b>		
5	월 26 <b>2</b> 9 16	6월 화 27 3 10 17	<ul> <li>20</li> <li>28</li> <li>4</li> <li>11</li> <li>18</li> </ul>	114 목 29 5 12 19	금 30 6 13 20	<ul> <li>E</li> <li>31</li> <li>7</li> <li>14</li> <li>21</li> </ul>	Start Date/Time 2014-05-02 Select Camera Camera 1 Camera 5	Camera 2	2014-06-02	<ul> <li>☆ 오후 1:08:27</li> <li>○ Carnera 4</li> <li>○ Carnera 8</li> </ul>			
2011 2 5 5 2 9	월 26 <b>2</b> 9	6별 화 27 3 10	20 ☆ 28 4 11	14 목 29 5 12	금 30 6 13	<ul> <li>₽</li> <li>₽</li> <li>31</li> <li>7</li> <li>14</li> </ul>	Start Date/Time 2014-05-02 Select Camera Camera 1 Camera 5 Camera 3 Camera 13 Ø First Event Only	Camera 2 Camera 6 Camera 10	2014-06-02 Camera 3 Camera 7 Camera 11 Camera 15	<ul> <li>☆ 오章 1:08:27</li> <li>○ Camera 4</li> <li>○ Camera 8</li> <li>○ Camera 12</li> </ul>	Filter Motion	Alarm	System

- Search by events (Motion, Alarm-In, System events)
- Press playback button after setting date, time, camera
- Click event list to playback the video

#### [Start Date/Time]

Set starting date & time for playback

#### [End Date/Time]

Set finishing date & time for playback

#### [Select Camera]

Select camera you want to playback

#### [First Event Only]

Display the first frame of new event after previous event

# 7.3.4 ATM/POS Search

= ci	лs											
_	Time	-	Even	• []		TM/E	OS Gookmark	📑 Thumbnail 🛛 🙀	Intelli-Search			
$\odot$	Time		Lvei		l H	1 M/ F			Intell-Search			
											Text Event List	
201	-06-02	2 🔿	오후	1:08:2	27 🔹		Set					
							Start Date/Time		End Date/Time			
		6월	<b>_</b> 201			0	2014-05-02	오전 12:00:00 💿	2014-06-02	오후 1:08:27 🔹		
	đ	화	수	목	금	토	POS/ATM Text					
5	26	27	28	29	30	31	CO/MINITERC			V First Event Only		
	2	3	4	5	6	7	Select Camera					
	9	10	11	12	13	14	Camera 1	📃 Camera 2	🗐 Camera 3	🔲 Camera 4		
5	16	17	18	19	20	21	Camera 5	📃 Camera 6	📃 Camera 7	Camera 8		
		24	25	26	27	28	Camera 9	📃 Camera 10	Camera 11	Camera 12		
2							🔲 Camera 13	📄 Camera 14	🔄 Camera 15	🔝 Camera 16		
	30	1	2	3	4	5						
29								Start		Cancel	Text Display Window	

- Search by ATM/POS data
- Press playback button after setting date, time, camera
- Click POS/ATM list to playback the video

#### [Start Date/Time]

Set the starting date/time of POS/ATM index

#### [End Date/Time]

Set the ending date/time of POS/ATM index

#### [POS/ATM Keyword]

Enter keyword for search

#### [Camera selection]

Choose the camera you want to search

## 7.3.5 Bookmark search

I CMS					- 0 💌
🚱 Time 🛛 🧱 Event 🛛 🚺	ATM/POS 🙀 Bookmark 📰	Thumbnail 🛛 🙀 Intelli-Search			
				Bookmark list No Date	Time
		>   🎽   🍉   י	🚖 🗌		

- Search by bookmarked of DVR
- Press playback button after selecting bookmark list
- Click bookmark list to playback the video



- Load bookmark of DVR
- Load bookmark of DVR.

# 7.3.6 Thumbnail Search

	MS										
6-)	Time		Event		🕄 ATM	/POS 🛛 🚤 Bookmark	Thumbnail	🙊 Intelli-Searc	1		
G			36		9						Thumbnail List
-											
_	4-06-02		오후 1		_ (	Set 🔍					
>		62	2014	1	(	Start Date/Time		End Date/			
3	<u>-06-0</u> 2 මු		2014	1	_ (	Start Date/Time	●     오전 12:00:00			오후 1:08:27 🔅	
201 3 일 25		62	<mark>. 2014</mark> 수	<b>4</b>	(	Start Date/Time 2014-05-02 Select Delay Sele	ct Camera	201	4-06-02 🔅	£≢ 1:08:27 ∳	
<b>ੇ</b> 일	ğ	6월 화	<mark>、 2014</mark> 수 28	<b>4</b>	) च इ	Start Date/Time 2014-05-02 Select Delay Sele Hour 0 🐑 🖸 🖓	ct Camera amera 1 📉 C	iamera 2	4-06-02 🔅 Camera 3	Ω≢ 1:08:27	
<b>9</b> 일 25	월 26 <b>2</b>	6월 화 27	2014 <b>수</b> 28 4	목 29 5	금 토 30 3:	Start Date/Time	ct Camera amera 1 📃 C amera 5 📃 C	amera 2 🛄	4-06-02 🔅 Camera 3 Camera 7	Ω≢ 1:08:27 ♦ Camera 4 Camera 8	
3 일 25 1 8	월 26 <b>2</b> 9	6월 화 27 3	2014       28       4       111	29 5 12	금 토 30 3: 6 7	Start Date/Time           2014-05-02           Select Delay           Select Delay           Min           Sec	ct Camera amera 1 C amera 5 C amera 9 C	amera 2 📄 amera 6 📄 amera 10 📄	4-06-02 🔅 Camera 3 Camera 7 Camera 11	오≢ 1:06:27       ●         □ Camera 4       ●         □ Camera 8       ●         □ Camera 12       ●	
3 일 25 1 8 15	월 26 <b>2</b> 9 16	6월 화 27 3 10	28         2           4         2           11         2           18         2	29 5 12	금     토       30     3:       6     7       13     1-	Start Date/Time           2014-05-02           Select Delay           Hour         0           C           Min         1           Sec         0           C         C	ct Camera amera 1 C amera 5 C amera 9 C	amera 2 📄 amera 6 📄 amera 10 📄	4-06-02 🔅 Camera 3 Camera 7	Ω≢ 1:08:27 ♦ Camera 4 Camera 8	
3 일 25 1 8	월 26 <b>2</b> 9 16	6월 호 27 3 10 17	28         2           4         11           18         2           25         2	29 5 12	Image: Constraint of the second sec	Start Date/Time           2014-05-02           Select Delay           Hour 0           Min 1           Sec 0	ct Camera amera 1 C amera 5 C amera 9 C	amera 2 📄 amera 6 📄 amera 10 📄	4-06-02 🔅 Camera 3 Camera 7 Camera 11	오≑ 1:08:27          ○ Carnera 4          ○ Carnera 8          ○ Carnera 12          ○ Carnera 16	

- Search by thumbnail data
- Press playback button after setting date, time, camera, delay
- Click thumbnail list to playback the video

#### [Start Date/Time]

Set the starting date/time

#### [End Date/Time]

Set the ending date/time

#### [Camera selection]

Choose the camera you want to search

#### [Delay selection]

Choose the thumbnail interval

# 7.3.7 Intelli-Search

III CN	٨S														
<b>(</b> 2-)	Time		Even	nt	N 🛐	TM/P	OS 🛛 🙀 Bookmark	📰 Thumbnail	🙀 Intelli-Se	arch					
												Motion List			
801	-06-02	2 🏚	오후	1:08:2	28 📢		Set				»	Sensitivity	Mediu	IW	
G		62	<u>I</u> _ 201	4		٢	Start Date/Time		End Date/Time						
일	쥂	화	÷	목	궁	토	2014-05-02 🐳	오전 12:00:00 🗧	2014-06-	02 🔄 오후 1:08:28	*				
25	26	27	28	29	30	31	Select Camera								
1	2	3	4	5	6	7		Camera 2	Camera 3	Camera 4					
8	9	10	11	12	13	14		) Camera 6   Camera 10	Camera 7	🔲 Camera 8 🔲 Camera 12					
15	16	17	18	19	20	21		Camera 14	Camera 15	Camera 16					
22	23	24	25	26	27	28									
29	30	1	2	3	4	5	Start			Cancel					

• You can search data by the region motion occur

#### [Start Date/Time]

Set the starting date/time

#### [End Date/Time]

Set the ending date/time

#### [Camera selection]

Choose the camera you want to search

#### [Delay selection]

Choose the thumbnail interval

#### [Sensitivity]

Motion sensitivity setting (Very High, High, Medium, Low, Very Low)

# 7.4 Setup

# 7.4.1 CMS Setup



Menu for CMS environment setting Click Setup – CMS Setup button

### 7.4.1.1 System

		<b>—</b>				
System Display Backup	Setup Playback Instant P	Record Account Password				
Version						
Current Version 1,9,5	Current Version 1,9,5					
CMS Language						
Language English	•					
Login User Information	Network					
User ID admin	Startu	up Network Connection				
Login Required						
🔲 Program Start	CMS Setup	Ptz Control				
🔲 Program Quit	🔲 Search	🔲 Е-Мар				
🔲 Remote Setup	Network Connection	Network Disconnection				
		Save Cancel				

#### General Setting

#### [Current Version]

Show current CMS version

#### [Language]

• You can change CMS language setting

#### [Login User Information]

User logged in currently

#### [Network]

 All DVRs will be connected automatically when CMS starts if Network Connection is checked

#### [Login Required]

- Select authority attributes for verification
- Program Start
   Requires when CMS starts
- CMS Setup
  - Require login when setting CMS information
- PTZ Control
   Requires when PTZ Control
- Program Quit
- Requires when CMS closes
- Search
   Require when playback
- E-Map
- Requires when E-Map setting
- Remote Setup
- Require login when setting server information
- Network Connection
   Requires when DVR connection
- Network Disconnection
   Requires when DVR disconnection

### 7.4.1.2 Display

E CMS Setup	×
System Display Backup Setup Playback Insta	ant Record Account Password
Display Option	
Display Mode GDI -	
Start Division -	
Deinterlace ON I Division High Quality	Auto Frame Skip Enable
🔲 Show Private Zone Video 👘 Display Resolution	📝 Text Data Overlay Enable
🗖 Display Video Loss 📄 Display Site Name	
Time Format	Font
Current Format 2014/06/02 13:16:04	Font Arial 👻
Date Format YYYY-MM-DD 🔹	Color White
Time Format 24 Hours 🔹	Size 12
	Save Cancel

• Setting for Display

#### [Display Mode]

- Available for Microsoft Windows
- Select GDI or DirectX

#### [Start Division]

Set division mode when CMS starts

#### [Deinterlace ON]

Enable Deinterlace\

#### [1 Division High Quality]

 Video quality in 1 division is changed to High quality automatically if this is checked

#### [Auto Frame Skip Enable]

Frame skip is enabled automatically

#### [Show Private Zone Video]

Shows Private Zone

#### [Display Resolution]

Shows video resolution

#### [Text data Overlay Enable]

Turn On/Off POS/ATM text data

#### [Display Video Loss]

Shows video loss message

#### [Display Site Name]

Shows channel name of DVR

#### [Current Format]

Shows current time format

#### [Date Format]

- Select date format
- YYYY(year) MM(month) DD(day)
- MM(month) DD(day) YYYY(year)
- DD(day) MM(month) YYYY(year)

#### [Time Format]

- Select time format
- 24 hour based or 12 hour based

#### [Font]

Select OSG font of screen

#### [Color]

Select OSG font color

#### [Size]

Select OSG font size

### 7.4.1.3 Backup

🗮 CMS Setup	×
System Display Backup Setup Playback Instant Record Account Password	
Backup Directory Backup Directory	
Snapshot Directory  I Directory	
Backup Format Snapshot BMP -	
Backup EXE -	
Save	3

#### • Setting for backup

#### [Backup Directory]

Set directory for data backup

#### [Snapshot Directory]

Set directory for Snapshot

#### [Snapshot]

Set save format of snapshot

#### [Backup]

Set backup format

### 7.4.1.4 Setup

EMS Setup	×
System Display Backup Setup Playback Instant Record Account Password	
Log Data	
Log Data Directory	
Directory	
Log Data Save	
CMS Setup	
Default Setup Import Setup Export Setup	
Save	

#### • Setting for setup

#### [Log Data Directory]

Set directory for log

#### [Log Data Save]

Save log history

#### [CMS Setup]

- Default Setup
- Changes CMS setting to default
- Import Setup
- Import CMS setting from external device
- Export Setup
  - Export CMS setting to external device

### 7.4.1.5 Playback

EMS Setup	×
System   Display   Backup   Setup   Playback   Instant Record   Account   Password	
Instance Playback Option	
Snapshot BMP -	
Playback Frame Mode	
☑ Auto Frame Skip Enable	
Save	el

• Setting for search

#### [Instance Playback Option]

- Snapshot
- Set Snapshot save format

#### [Playback Frame Mode]

Frame Skip Enabled automatically

# 7.4.1.6 Instant recording

CMS Setu	р							
System	Display	Backup	Setup	Playback	Instant Record	Account	Password	
Directory								
1						Change Dire	ctory	
						Sav	e Cance	el

• Setting for instant recording

#### [Directory]

Setting saving directory

### 7.4.1.7 Account

🛅 CMS Setup						×
System Display E	Backup Setup	Playback	Instant Record	Account	Password	
Account User	Informat	tion				
				Ac	ld User	]
				E	dit User	
				Rem	nove User	
				Sav	e Cano	el

#### • Setting for account

#### [Add User]

Add new user

#### [Edit User]

Edit user

#### [Remove User]

Remove user

### 7.4.1.8 Password

E CMS Setup		<b>-X</b> -
System Display Backup	Setup   Playback   Instant Record   Ac	count Password
Login User Information		
User ID	admin	
Password		
New Password		
Confirm Password		
	Change Password	
		Save Cancel
		Save Cancer

#### • Setting password

#### [User ID]

Shows current user logged in

#### [Password]

Type old password

#### [New Password]

Type new password

#### [Confirm Password]

type again new password

# 7.4.2 Server setting

System Tool (	Setu	p View Help
<b>I</b> i	0	CMS Setup
Server List	Ф,	Server Setup
⊿ 📖 DVR	7	Remote Setup
🖧 Cam	<u>_</u>	Remote Upgrade

DVR setting menu

Click Setup – Server Setup button

Server Setup	Server	Edit	Server	Remove Server
Server List				
Server Name	Network Address	Network Port	User Name	
DVR	192.168.0.89	7080	admin	
L			lose	

[Add Server] Add new DVR

Add Server		X
Server		
Server Name		Find DVR
Network Address		
Network Port	7080	
User ID	admin	
User Password	••••	
Camera Name		Display Option
CH1	CH9	
CH2	CH10	
CH3	CH11	Server Camera Text 🔻
CH4	CH12	
CH5	CH13	Server List Display
СН6	CH14	Server List Display
CH7	CH15	
CH8	CH16	
		OK Cancel

#### [Server]

- Server Name
  - Type new DVR name
- Network Address
- Enter DVR address Ex)127.0.0.1, dvr.nsddns.org
- Network Port
  - Enter DVR port
  - Default is 7080
- User ID
- Enter user ID for DVR
- User Password
- Enter password for DVR

#### [Find DVR]

Find all DVRs automatically under all same router

#### [Camera Name]

- CH1 CH16
  - Type camera name

#### [Display Option]

- Select camera name to be displayed
  - Server Camera Text uses camera of DVR setting
  - CMS Camera Text uses camera name of CMS setting

#### [Server List Display]

Apply same setting to Server list

Server Setup					<u></u>
Add	Server	Edit	Server	Remove Server	
Server List					
Server Name	Network Address	Network Port	User Name		
DVR	192.168.0.89	7080	admin		
Close					

#### [Edit Server]

Edit the selected setting of DVR.

#### [Remove Server]

• Remove the DVR selected on the list.

# 7.4.3 DVR Remote Setting

System Tool	Setu	ip View Help
🃭 🖸 📻	0	CMS Setup
Server List	Ф,	Server Setup
⊿ III DVR	-	Remote Setup
🗸 Cam		Remote Upgrade

#### DVR Remote setting menu

Click Setup – Remote Setup button

📰 Remote Setup		? ×
Wizard         System         General         Account         Log / Setup         Backup         Shutdown         Recording         Setting         Motion         Schedule         Network         General         DDNS         E-Mail         Alarm         Motion         POS / ATM         No Video         Abnormal         View         OSG         POS / ATM         Main         Multi Spot	Time Video Storage Update Admin Timezone UTC+09:00 Seoul, Tokyo Language English Date Format MMDDVYVY Date Seperator - Time Format 24 Hours Daylight Saving ♥ Setting	
Restore Defaults		Save Close

You can change DVR setting on CMS

# 7.4.4 Remote Upgrade

System Tool	Setup View Help
Te 🖸 🖬	O CMS Setup
Server List	🐁 Server Setup
	💻 Remote Setup
🗸 Cam	nemote Upgrade

• You can upgrade DVR firmware from CMS

📰 Remote Upgrade			<b>X</b>
	File Load		
			0%
Upgrade Start		Upgrade Cancel	
	Close		

- File Load : You can select upgrade file
- Upgrade Start : Start upgrade
- Be careful network connection is not disconnected while upgrading
- DVR restarts when upgrade is finished

# 7.5 E-Map

Map List	8 ×		
🖓 💼 📜 🔀			<ul> <li>Create new map</li> <li>Create new map</li> </ul>
<ul> <li>Root</li> <li>Road</li> <li>Floor 1</li> <li>Hall</li> <li>Door</li> <li>Floor 2</li> <li>Room 1</li> </ul>			<ul> <li>New folder         <ul> <li>Create new folder for map</li> <li>Each folder can contain 5 maps</li> </ul> </li> </ul>
Room 2 Room 3			<ul> <li>Change map/folder name Change map/folder name</li> </ul>
		*	<ul> <li>Delete map/folder</li> <li>Delete map/folder</li> </ul>
Server List Map List			

# 7.5.1 E-Map Menu



#### [Rename]

Change map name

#### [Edit map]

Edit map

#### [Delete map]

Delete map

# 7.5.2 E-Map Edit





#### Initialize map

- Clear all the map and all items



#### Load background image

- Load background image



Camera

 Add camera to a map



Alarm In
Add alarm in to a map



#### Alarm Out

- Add alarm out to a map



Speaker

- Add speaker to a map



Text
 Add text to a map

# 7.5.3 E-Map Item Setting





#### Connection

- Connect DVR devices to icon of map



#### Disconnect

- Disconnect DVR devices from map



#### Rename

- Change Icon name



### 7.5.3.1 E-Map Item Connection

CMS	? ×		
Host DVR	DVR -		
Index	1		
ОК	Cancel		

#### [Host DVR]

Select DVR for device connection

#### [Index]

 Select device sequence number of DVR

# 7.5.4 Using E-Map



#### [Camera]

 Click camera icon when DVR is connected
# 8. Active X

## 8.1 Active X Connection

- 1. Type IP address or dns name of DVR you want to connect in iexplorer address window
- Type additional port number if you are using a port other than 80 as HTTP port (ex. IP Address 192.168.10.25, Port number is 8010 http://192.168.10.25:8010)



#### 2. Install Active X

- Screen image may be different from OS version, iexplorer version

이 웹 사이트에서 'SE	EOJIN SOLUTION'에서 배포한 'www.seojinsolution.co.kr' 추가 기능을 설치하려고 합니다. 위험성(\W) 설치(D) >
Internet Expl	lorer - 보안 경고
이 소프트	트 <b>웨어를 설치하시겠습니까?</b> 이름: www.seojinsolution.co.kr 게시자: <u>SEOJIN SOLUTION</u>
😮 기타	· 옵션( <u>O</u> ) 설치( <u>I</u> ) 설치 안 함( <u>D</u> )
۲	미 형식의 파일은 사용자의 컴퓨터에 피해를 줄 수 있습니다. 신뢰할 수 있는 게시 자로부터의 소프트웨어만 설치하십시오, <u>위험성</u>

## 8.2 Active X Initial screen

🔶 🗇 🍯 http://192.168.11.25/cgi-bi	n/main.c 🔎 – 🖹 C) 🏉 DVR ActiveX Viewe	K X	• <b>-</b> •
			CONNECT DISCONNECT PLAYBACK 1 2 3 4 5 6 7 8 9 10 11 12 3 14 15 16 10 11 12 13 14 15 16 10 11 12 13 14 15 16 10 11 12 10 12 10 10 12 10 10 12 10 10 10 12 10 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10
			🔍 100% 👻

CONNECT

#### [CONNECT]

Connect to DVR

[DISCONNECT]

[PLAYBACK]

Disconnect DVR

#### DISCONNECT

#### PLAYBACK

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16









### QUIT

### [1 division mode]

Shows 1 camera selected

Change to playback mode

#### [Multi division mode]

Shows cameras in 4 / 9 / 16 division mode

### [PTZ Control]

Control PTZ

#### [ZOOM]

Zoom In(+) / Out(-)

#### [FOCUS]

FOCUS Near(+) / Far(-)

#### [QUIT]

Exit iexplorer after disconnecting

#### 146

## 8.3 Connect

Connect	
IP / Domain	192.168.10.25
Port	4080
ID	
Password	
	OK Cancel

User ID and password are required for network connection

#### [IP/Domain]

Type IP address or domain name of DVR

#### [Port]

Type TCP port number of DVR

#### [ID]

Type id

#### [Password]

Type password

# 8.4 LIVE



High Quality	۲	Current Channel
Normal Quality	۲	All Channel
Frame Mode	×	
DeInterlace		
Snapshot		
PTZ Preset		
Audio Enable		
Mic On		
DVR Desktop		

#### [High Quality]

- Current Channel : Change current video quality to high
- All Channel : Change all video quality to high



#### [Normal Quality]

- Current Channel : Change current video quality to normal
- All Channel : Change all video quality to normal



### [Frame Mode]

- 1X Mode : Show as a 1X mode
- 2X Mode : Show as a 2X mode
- 4X Mode : Show as a 4X mode



#### [Deinterlace]

Deinterlace Enable/Disable

#### [Snapshot]

Save screen snapshot

#### [PTZ Preset]

- Set : Save current position to preset Number
- Go to : Go to preset Number
- Preset No. : Range is 1 ~ 99

Preset		×
Preset No	1	•
	Go to	Set

#### [Audio Enable]

Audio output Enable/Disable

#### [Audio Enable]

Audio output Enable/Disable

#### [MIC ON, OFF]

Turn On/Off Two-way audio

#### [DVR Remote Desktop]

- You can control DVR remotely while you see DVR screen
- Some DVR models do not show camera

# 8.5 PLAYBACK

C () ( http://192.168.10.25:4480	/cgi-bin, 🔎 👻 🗟 🖒 🍯 DVR ActiveX V	/lewer ×		- • <b>•</b> ∩ ★ ©
			- 73 - 24	CONNECT DISCONNECT LIVE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 10 10 10 11 12 14 15 16 17 10 10 12 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 10 19 20 21 22 23 1 2 26 27 28 29 30 31
				🔍 100% 🔻 💡

#### DISCONNECT











#### [DISCONNECT]

Disconnect connection

#### [LIVE]

Go to LIVE screen mode

#### [1 division mode]

Shows 1 camera selected

#### [Multi division mode]

 Shows multiple cameras in a 4 / 9 / 16 division screen mode

#### [Calendar]

- Shows the dates video recorded
- The recorded dates is displayed in red

#### [Month search]

Month moves forward or backward by a month

#### [Year search]

Year moves forward or backward by a year

**	[Rewind] ■ Rewind
-	[1 Frame backward] 1 Frame backward
н	<b>[Pause]</b> ■ Pause
•	<b>[Play]</b> ■ Play
	[1Frame forward] <ul> <li>1 Frame forward</li> </ul>
**	[Fast forward] ■ Fast Forward

#### [Timebar]

Shows the time recorded in red

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

Snapshot

Backup

Audio Enable

Enable Frame Skip Mode

#### [Snapshot]

- Save screen snapshot
- BMP / JPG / PNG supported

#### [Backup]

Backup video as a AVI format

#### [Audio Enable]

Audio output Enable / Disable

#### [Enable Frame Skip Mode]

Frame Skip Mode Enable / Disable

## 8.6 Backup

AVI Backup			<b>X</b>
Start Date/Time	2013-07-25	✓ 오전 11:39:36	•
End Date/Time	2013-07-25	▼ 오전 11:39:36	•
	Backup Start	Backup En	d

#### [Backup]

- Start Date/Time : Set start time of backup
- End Date/Time : Set end time of backup
- Backup Start : Starts backup as a AVI format
- File location and name are displayed when backup begins
- Backup End : Exit backup

# 9. Mobile Viewer

- 9.1 Download Mobile Viewer
  - 1. iPhone
    - 1-1. Run Apple app store
    - 1-2. Search 'T DVR Viewer'
    - 1-3. Select 'T DVR Viewer' from list
    - 1-4. Install app
  - 2. Android
    - 1-1. Run Google Play on users android os smartphone
    - 1-2. Search 'T DVR Viewer'
    - 1-3. Select 'T DVR Viewer' and install

## 9.2 Android / iPhone

## 9.2.1 Beginning



- DVR ADD / EDIT / DELETE
  - You can add / edit / delete DVR list
- LIVE MONITORING
  - Live monitoring of DVR registered
  - PTZ control / Alarm Out control
  - Snapshot
  - Up to 16 split screen mode
- PLAYBACK
  - Playback recorded data
  - Snapshot
  - Up to 16 split screen mode
- SNAPSHOTS
  - View Snapshots
- SETTING
  - Version / Quality Setting / Manual

### 9.2.2 DVR Add / Edit / Delete





DVR Add
 Add new DVR



- DVR Edit
  - Edit DVR list



DVR Delete
 Delete DVR list



- Help
- View manual

### 9.2.2.1 DVR Add / Edit

SKT		<b>⊿1</b> 92% <mark>–</mark> 09:24	sкт		JAN 92% 09:24
•	Add New DVR		-	Modifiy DVR	
DVR Name			DVR Name		
			show		
IP Address		Port	IP Address		Port
L		7080	show.nsddns	.org	7080
User ID			User ID		
admin			admin		
User Password			User Password		
L			••••		
Save		Back	Save		Back
	Address Port IP Address Port 7080 IP Address Port Show.nsddns.org7080 User ID User ID User ID User Password User Password				

#### [Add/Edit mode]

- DVR Name
- DVR list name
- IP Address
- IP Address or domain name of DVR
- Port
- Enter DVR port number(Default is 7080)
- Enter TCP port of DVR
- User ID
- Enter one of users of DVR
- User Password
  - Password

### 9.2.2.2 DVR Delete





#### Enter into deletion mode

- You can delete list or move list up/down



#### DVR Delete

- Delete list

## 9.2.3 LIVE MONITORING





#### Audio

- Turn On/Off audio



#### I division mode

- Change the screen into 1 division mode
- Next camera is selected when you click again



#### 4 division mode

- Change the screen into 4 division mode
- Next 4 division is selected when you click again



#### 9 division mode

- Change the screen into 9 division mode
- Next 9 division is selected when you click again



#### 16 division mode

- Change the screen into 16 division mode







#### • PTZ mode

- Control PTZ - Up / Down / Left / Right / Zoom In / Zoom Out

### 9.2.4 PLAYBACK

SKT		л <b>і 44% —</b> 17:28 sк	т				a	<b>44%</b>	17:2
-	DVR List	?	←		C	Calenda	ır		
<u> </u>	P: show.nsddns.org Port: 7080 User ID: admin User Password: ****		Pre	<u>؛</u> ۷	:	2014/3	3	N	lext
		S	un	Mon	Tue	Wed	Thu	Fri	Sa
		2	23	24	25	26	27	28	1
			2	3	4	5		7	8
			9	10	11	12	13	14	15
		1	16	17	18	19	20	21	22
		2	23	24	25	26	27	28	29
		3	30	31	1	2	3	4	5
			2014-02-07 00:00						
			Hou	r 🧿				Play	
			Minu	ite 🦷				Cance	

- Playback
- Click DVR you want to search froem DVR List
- Click Play button after selecting date & time

## 9.2.5 SNAPSHOTS



- Snapshot
  - Select snapshot list on the bottomYou can zoom in / out by finger

### 9.2.6 SETTING

SETTING



#### [Version]

Current version

#### [Video Quality Setting]

• You can set video quality when connect to the DVR

#### [Update Information]

Update information

#### [Manual]

T DVR Viewer manual