Digital ID VIEW

NW-STA-5016/5009/5004
USER MANUAL

Networked DVR

Product Feature

❶ 16/9/4 CH Multiple camera Input

❷ Embedded XP O/S of DOM(Disk On Memory)
 solution Mounted

❸ Pentapllex Multi tasking for Monitoring
And recording and searching and networking

❹ Able to record the CIF size(320*240) video
Image at the speed of 120/240/480 fps
(frame for second)

❺ Large quantity HDD backup function by using
IEEE1394 and USB2.0 Memory and CD/DVD

❻ MPEG4 H/W Compression with high compres-
sion rate 1~3K

❼ Intelligent camera move away detection

❽ Central Integration with CAMS Checker
For Real time Health Check

❾ Two Way audio communication and broadcas-
tIng by CMS,CM Server

Contents

Chapter 1 ⚠ *Service Requirement*

<u>Limitation of warranty</u>

We warrant that DVR series will be free from defects in materials and workmanship under normal use and service for all parts excluding hard drives for a period of one year after the date that the customer purchased the product.
If such a defect occurs, you should contact where you purchased and return the product to us accompanied with the proof of purchase, we will either repair or replace the product through our inspection. It is your exclusive remedy for breach of this warranty. However this warranty shall not apply on repairs or replacements necessitated by any cause as listed below.

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

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

⚠ Service Information

- To avoid additional defects, do not attempt to repair this unit by yourself. Please contact a local dealer/distributor/certified installer to get service from authorized technician. Unauthorized repairs will void the warrantee, may result in fire, electronic shock or other hazards.

- All shipment for repair should be prepaid and properly packed with a note outlining the defect.

- Send the product with purchase number or other related documents obtaining from Fore Tech or its agent as proof purchasing the product.

Chapter 2 🪙 *Product Information*

● **Features**

◆ Enable integrated video monitoring and system management by networking with maximum 1000DVRs systems through CAMS(Central Automated Monitoring System) interface.

◆ High quality video display and system stability through embedded operating system with hardware MPEG4 video compression chip.

◆ Support the max D1(720*480) quality resolution video display and 120FPS recording.

◆ 4/9/16 CH video input and 4 CH audio input.

◆ X-Triplex multitasking for video recording, playback, transmission and backup.

◆ Easy operation using remote-controller, full-page panel, GUI support.

◆ Network transmission of 30 different types of system error management information per system.

◆ High-speed transmitted video monitoring of ST DVRs up to 64 channels through CMS software network.

◆ High-speed network video monitoring by internet explorer through WEB CMS server within the system.

● **System Design**

◆ Watchdog function for hardware & software error

◆ Robust design for physical impact and temperature

◆ Generating 30 different types of network massages for system errors.

◆ Application of low power and low heat features for industrial environment

● **General Specifications**

◆ Advanced hardware MPEG 4

◆ Embedded O/S ROM

◆ 4/9/16 Camera input

◆ Auto-sequence screen division and PIP/POP function.

◆ Real time display

◆ Recording : 120fps-NTSC (PAL 100fps)

◆ 4 CH audio recording and two way audio communication.

◆ CD, DVD RW, USB external saving devices

◆ Ethernet 10/100Mbps, RS-232C network support

◆ Maximum 16 ports sensor input and 4 port alarm output

◆ X-plex multitasking, recording, playback, backup and network.
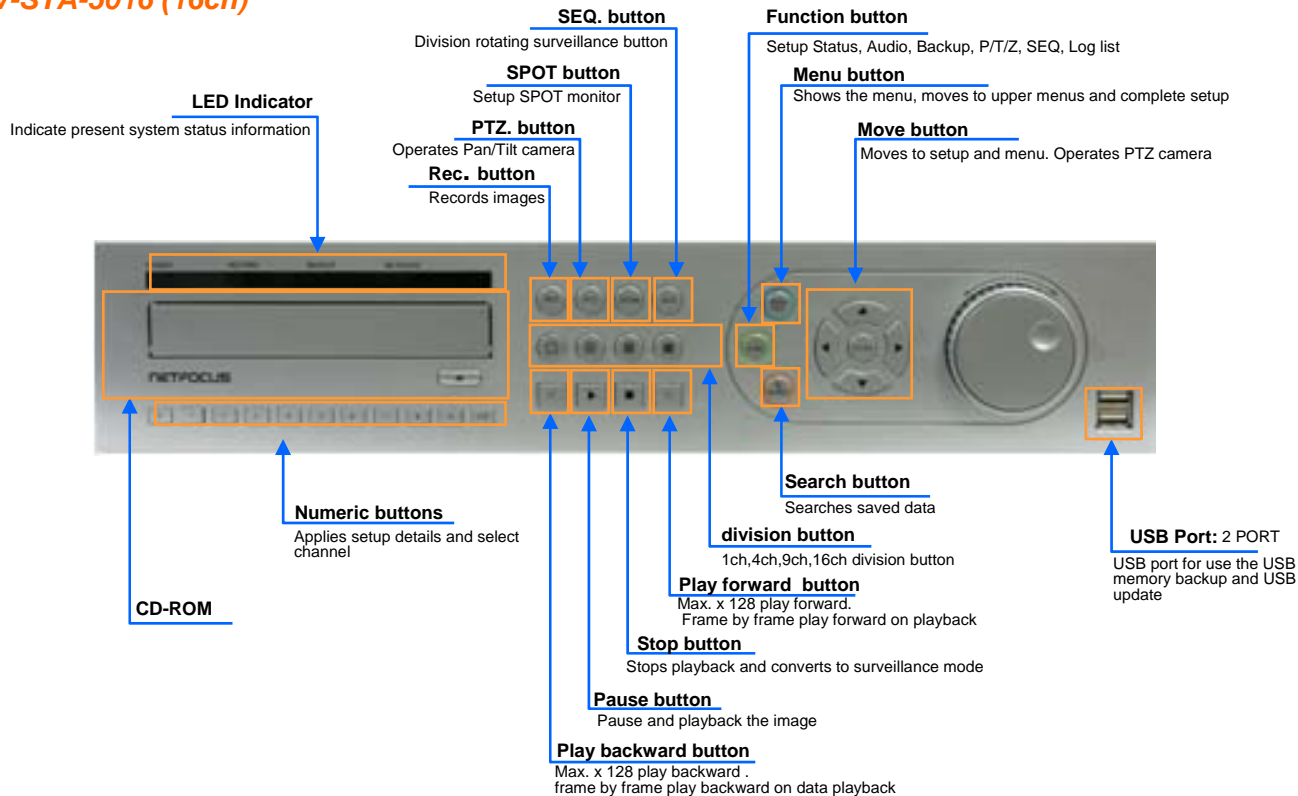
◆ STATIC, DHCP, PPPOE support

◆ Firmware upgrade using network and USB port.

◆ Remote upgrade using CMS

◆ Free alarm (max 30secs), port alarm (max 120secs) recording

◆ Watermarking

◆ Private backup viewer

◆ E-Map's layout mapping

◆ able to install maximum 4 HDD to save 2.5T

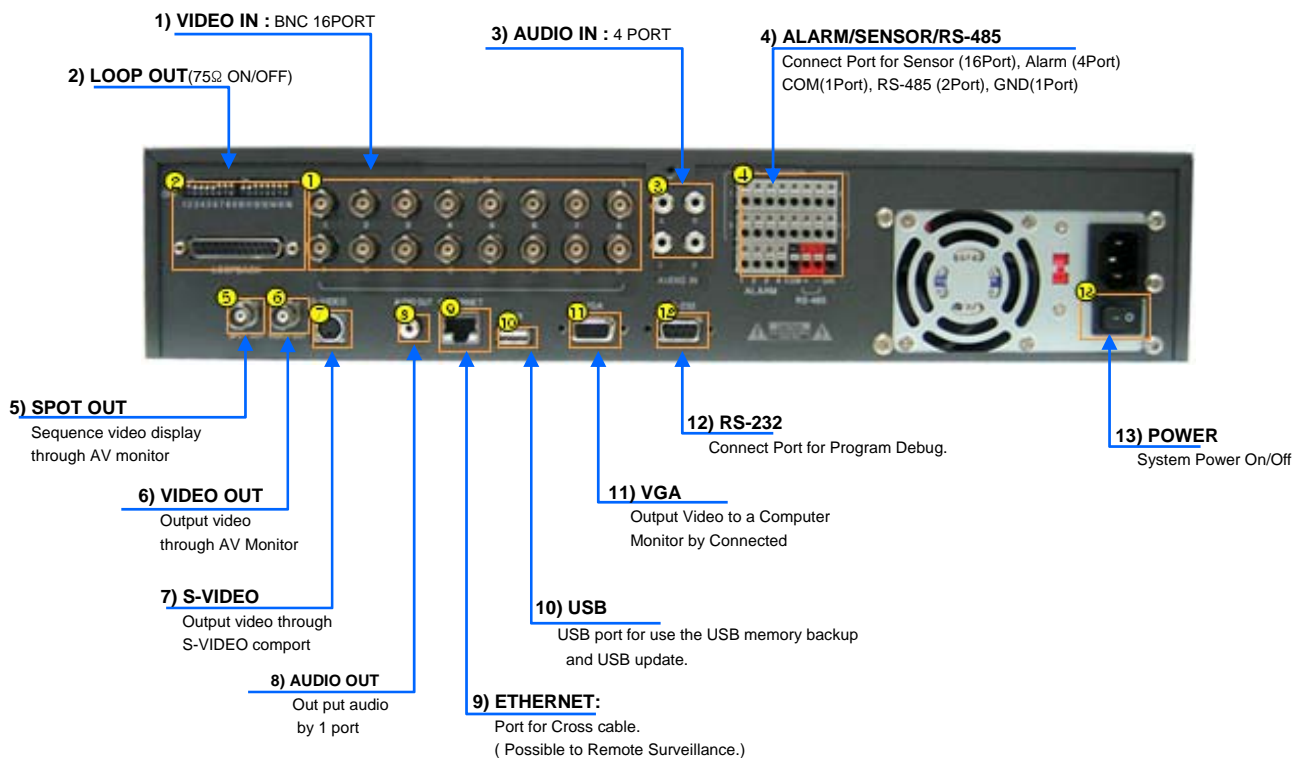# *Chapter 3* ⟶ *General product operation*
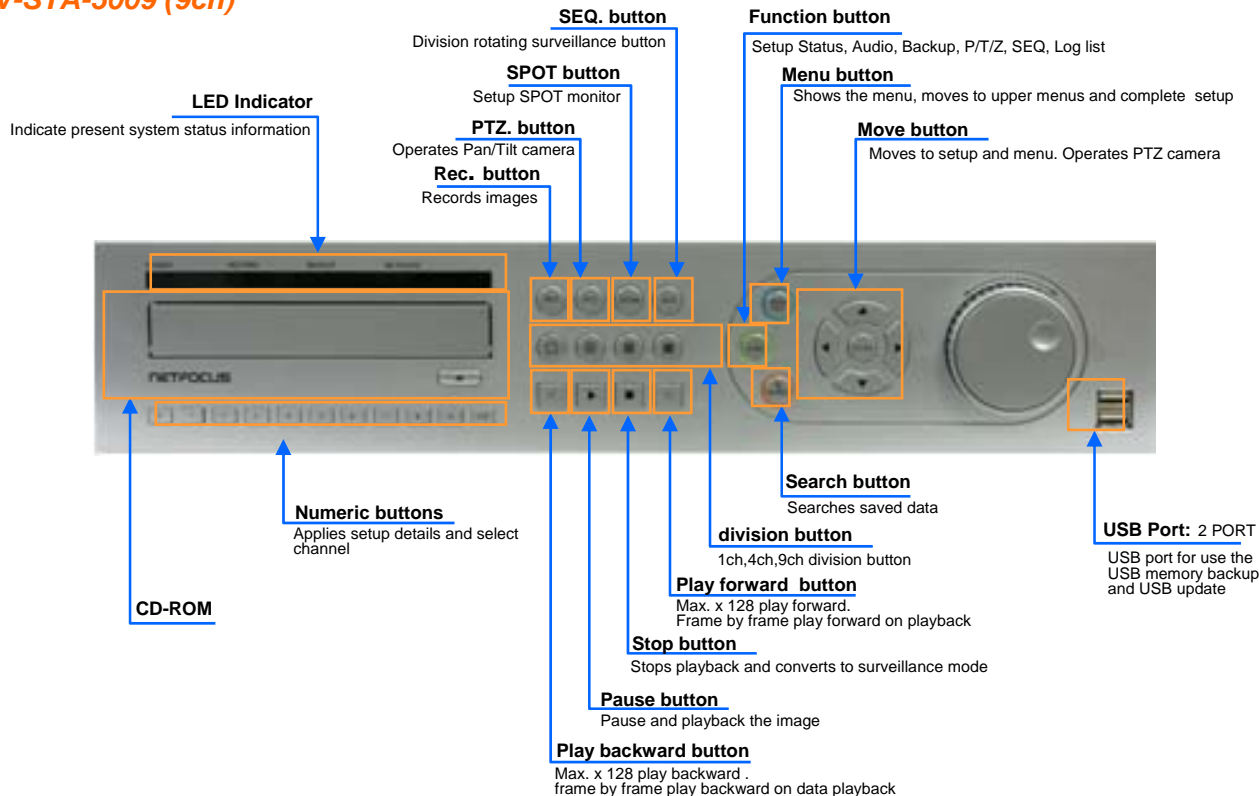
FRONT CASE Button Description

IV-STA-5016 (16ch)

SEQ. button
Division rotating surveillance button

SPOT button
Setup SPOT monitor

PTZ. button
Operates Pan/Tilt camera

Rec. button
Records images

Function button
Setup Status, Audio, Backup, P/T/Z, SEQ, Log list

Menu button
Shows the menu, moves to upper menus and complete setup

Move button
Moves to setup and menu. Operates PTZ camera

LED Indicator
Indicate present system status information

Numeric buttons
Applies setup details and select channel

Search button
Searches saved data

USB Port: 2 PORT
USB port for use the USB memory backup and USB update

division button
1ch,4ch,9ch,16ch division button

Play forward button
Max. x 128 play forward.
Frame by frame play forward on playback

Stop button
Stops playback and converts to surveillance mode

CD-ROM

Pause button
Pause and playback the image

Play backward button
Max. x 128 play backward .
frame by frame play backward on data playback

REAR PANEL I/O Description

IV-STA-5016 (16ch)

1) VIDEO IN : BNC 16PORT

2) LOOP OUT(75Ω ON/OFF)

3) AUDIO IN : 4 PORT

4) ALARM/SENSOR/RS-485
Connect Port for Sensor (16Port), Alarm (4Port)
COM(1Port), RS-485 (2Port), GND(1Port)

5) SPOT OUT
Sequence video display through AV monitor

6) VIDEO OUT
Output video through AV Monitor

7) S-VIDEO
Output video through S-VIDEO comport

8) AUDIO OUT
Out put audio by 1 port

9) ETHERNET:
Port for Cross cable.
(Possible to Remote Surveillance.)

10) USB
USB port for use the USB memory backup and USB update.

11) VGA
Output Video to a Computer Monitor by Connected

12) RS-232
Connect Port for Program Debug.

13) POWER
System Power On/Off

FRONT CASE Button Description

IV-STA-5009 (9ch)

SEQ. button
Division rotating surveillance button

Function button
Setup Status, Audio, Backup, P/T/Z, SEQ, Log list

SPOT button
Setup SPOT monitor

Menu button
Shows the menu, moves to upper menus and complete setup

LED Indicator
Indicate present system status information

PTZ. button
Operates Pan/Tilt camera

Move button
Moves to setup and menu. Operates PTZ camera

Rec. button
Records images

Numeric buttons
Applies setup details and select channel

Search button
Searches saved data

USB Port: 2 PORT
USB port for use the USB memory backup and USB update

CD-ROM

division button
1ch,4ch,9ch division button

Play forward button
Max. x 128 play forward.
Frame by frame play forward on playback

Stop button
Stops playback and converts to surveillance mode

Pause button
Pause and playback the image

Play backward button
Max. x 128 play backward .
frame by frame play backward on data playback

REAR PANEL I/O Description

IV-STA-5009 (9ch)

1) VIDEO IN : BNC 9PORT

3) AUDIO IN : 4 PORT

4) ALARM/SENSOR/RS-485
Connect Port for Sensor (9Port), Alarm (4Port)
COM(1Port), RS-485 (2Port), GND(1Port)

2) LOOP OUT:
Output video by BNC
9Port (75Ω AUTO)

5) SPOT OUT
Sequence video display
through AV monitor

12) RS-232
Connect Port for Program Debug.

13) POWER
System Power On/Off

6) VIDEO OUT
Output video
through AV Monitor

11) VGA
Output Video to a Computer
Monitor by Connected

7) S-VIDEO
Output video through
S-VIDEO comport

10) USB
USB port for use the USB memory backup
and USB update.

8) AUDIO OUT
Out put audio
by 1 port

9) ETHERNET:
Port for Cross cable.
(Possible to Remote Surveillance.)

FRONT CASE Button Description

IV-STA-5004 (4ch)

Numeric buttons
Applies setup details and select channel

Rec. button
Records images

PTZ. button
Operates Pan/Tilt camera

division button
1ch,4ch division button

Move button
Moves to setup and menu. Operates PTZ camera

LED Indicator
Indicate present system status information

CD-ROM

Play backward button
Max. x 128 play backward .
Frame by frame play backward on data playback

Play forward button
Max. x 128 play forward.
Frame by frame play forward on playback

USB Port: 2 PORT
USB port for use the
USB memory backup
and USB update

Search button
Searches saved data

Menu button
Shows the menu, moves to upper menus and
complete setup

Stop button
Stops playback and converts to surveillance mode

Pause button
Pause and playback the image

Function button
Setup Status, Audio, Backup, P/T/Z, SEQ, Log list

REAR PANEL I/O Description

IV-STA-5004 (4ch)

6) AUDIO IN
Input audio
by 4 Port

4) AUDIO OUT
Output audio
by 1 Port

8) RS-232
Connect Port for
Program Debug.

1) VIDEO IN
Input video by
BNC 4PORT

3) VIDEO OUT
Output video
through AV
Monitor

10) ALARM/SENSOR/RS-485
Connect Port for Sensor (4Port), Alarm (4Port)
COM(1Port), RS-485 (2Port), GND(1Port)

2) LOOP OUT
Output video
by IV-STA-5004 :
BNC 4Port
(75Ω AUTO)

5) S-VIDEO
Output video
through S-VIDEO
comport

7) ETHERNET:
Port for Cross cable
(Possible to Remote
Surveillance.)

8) RS-232
Connect Port for
Program Debug.

12) DC POWER Input
Power Supply by
DC12V Adaptor

11) POWER
System Power On/Off

Power on/off

→ Socket for Power Cable

→ ON/OFF Button : (O)OFF / (─)ON

●**Power on**

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

●**Power off**

① press 'Menu' button **[menu → system → shutdown]**

② select 'Shutdown' and press 'Enter' button.

③ select 'OK' button after the message " system will shutdown". Press 'Enter' button.

④ press the power switch at the back to be 'Off'.

System Login
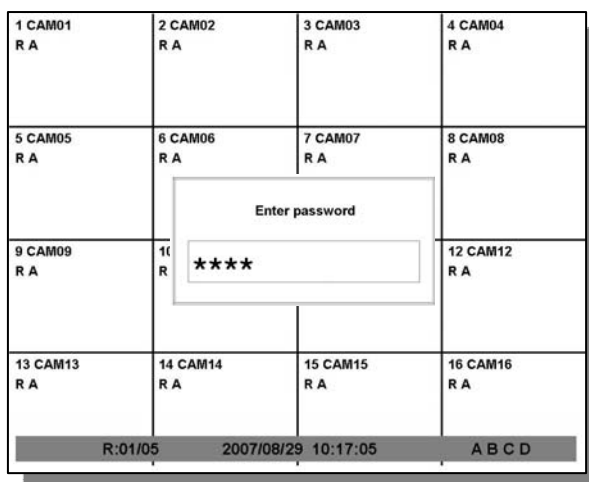
●**Input password**

Input the password using number buttons at the password box.

☞ *The default value is '0000'.*

Screen display

[Channel status]

Channel number
Camera name
: Recording
: Motion detection in process
: Sensor detection in process
: Channel sequence indication
: PTZ indication

[Playback status]

: Playback in progress
: Pause
: Playback per frame   : Play backward per frame
: Speed playback   : Speed play backward
: Double speed playback
: Double speed play backward
: Triple speed playback
: Triple speed play backward

1 CAM01 R	2 CAM02 R	3 CAM03 R	4 CAM04 R
5 CAM05 R	6 CAM06 R	7 CAM07 R	8 CAM08 R
9 CAM09 R	10 CAM10 R	11 CAM11 R	12 CAM12 R
13 CAM13 R	14 CAM14 R	15 CAM15 R	16 CAM16 R

2007/08/29 10:17:05   R:01   A B C D

[Slide bar]
: CMS connection status
: USB device connection status
Date & time
Remote controller status

[HDD status]
HDD indication
A : master hard
B : slave hard
C : master hard
D : slave hard

* color icon indications
blue : HDD installed.
yellow : recording in progress
orange : Hard disk is full
red : Hard disk error

Screen setup

● **Full screen mode**

- ☐ press this button.

- ☐ shifts to next channel each time you press this button.

● **Quad screen mode**

- ⊞ press this button.

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

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

1 CAM01	2 CAM02
3 CAM03	4 CAM04

1 ➡

1 CAM01
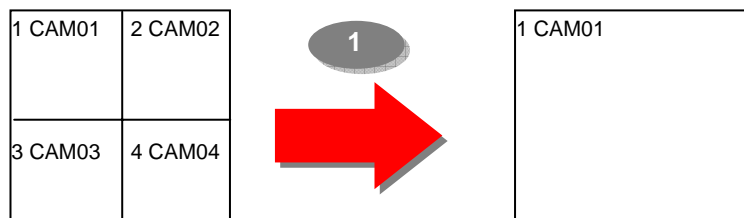
-If you press another channel number that is not being displayed in the current quad screen, it turns
 another quad screen including the channel you selected.

1 CAM01	2 CAM02
3 CAM03	4 CAM04

6 ➡

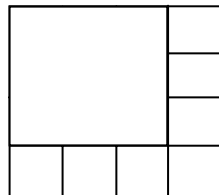| 5 CAM05	6 CAM07
7 CAM07	8 CAM08
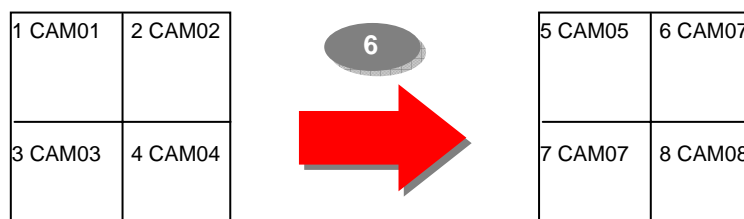
● **9 division screen mode**
 - ⊞ press this button
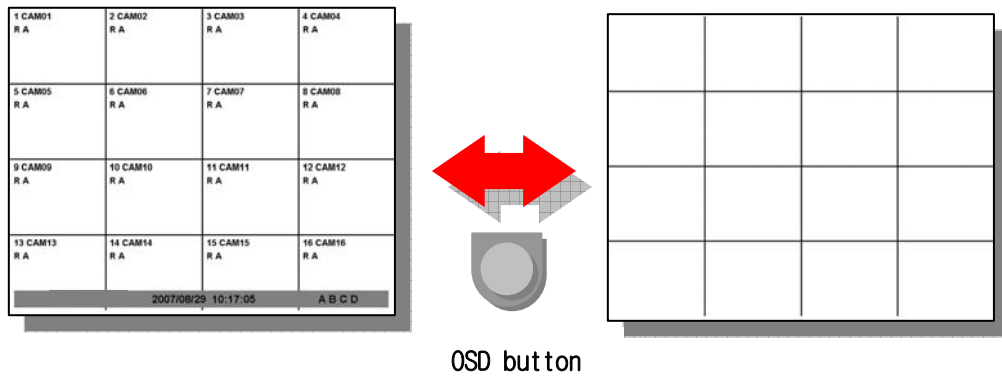
● **16 division screen mode**
 - ⊞ press this button

● **POP screen mode *only for 9Ch & 16Ch products**
 -press 'POP' button, it will display a certain channel larger than other channels.

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

OSD button

● **PIP screen mode**

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

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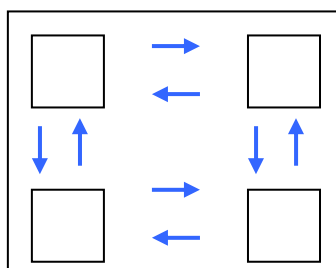 (2) press 'PIP' button one more time the display channels will be exchanged.

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

   Ex)
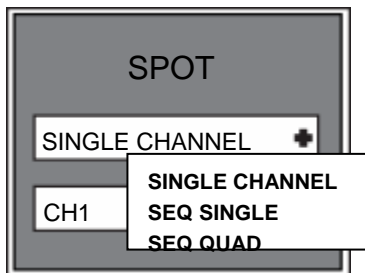

 (4) you can move the small screen using arrow buttons.

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

●**SPOT screen * only for 9Ch & 16Ch products**
able to display real time screen of another screen-mode in different monitor using 'SPOT OUT' port
at the back of product.
▶Press 'Function' button and select 'Spot' to set up 'SPOT' screen.

```
        SPOT

  SINGLE CHANNEL   ✚
           ┌──────────────────┐
           │ SINGLE CHANNEL   │
    CH1    │ SEQ SINGLE       │
           │ SEQ QUAD         │
           └──────────────────┘
```

(1) type
　　① single channel
　　　▷playback only one selected channel in full screen
　　　　mode.

```
        SPOT

  SINGLE CHANNEL   ✚
           ┌──────────┐
           │   CH1    │
    CH1    │   CH2    │  ✚
           │   CH3    │
           │   CH4    │
           │   CH5    │
           │   CH6    │
           │   CH7    │
           └──────────┘
```

　　② sequence single
　　　▷playback each channel in full screen mode in sequence.
　　　▷you can setup duration time at system menu.

　　③ sequence quad
　　　▷playback channels in quad screen mode in sequence.
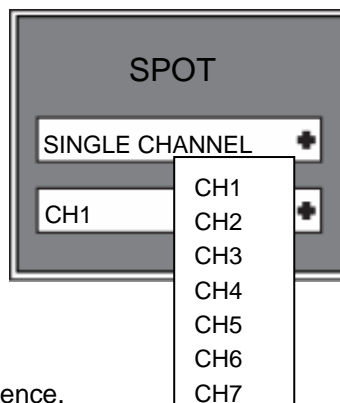
No.	Camera
1	Camera 1 ~ Camera 4
2	Camera 5 ~ Camera 8
3	Camera 6 ~ Camera 9

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

[IV-STA-5009]　　　　　　　　　　　　**[IV-STA-5016]**

　　　▷you can setup duration time at system menu.

Digital zoom

- press **Z/F** (ZOOM) button in full screen mode to active digital zoom.

- zoomed area moves as you press arrow buttons.

- size of zoomed area gets bigger and smaller as you press **Z/F** (ZOOM) button one more time.

- press 'Enter' button, it shows the selected area bigger like the images below.

Recording
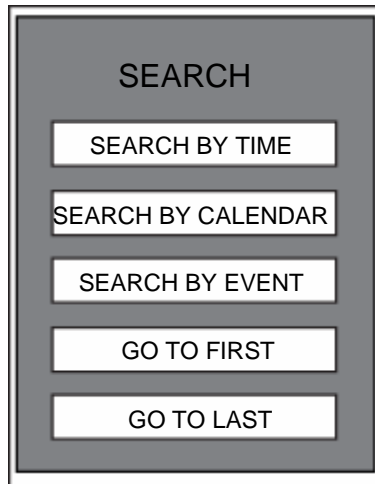
- press 'REC' button to start recording.

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

Search

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

```
            SEARCH

       ┌─────────────────────┐
       │   SEARCH BY TIME    │
       └─────────────────────┘
       ┌─────────────────────┐
       │ SEARCH BY CALENDAR  │
       └─────────────────────┘
       ┌─────────────────────┐
       │  SEARCH BY EVENT    │
       └─────────────────────┘
       ┌─────────────────────┐
       │    GO TO FIRST      │
       └─────────────────────┘
       ┌─────────────────────┐
       │    GO TO LAST       │
       └─────────────────────┘
```
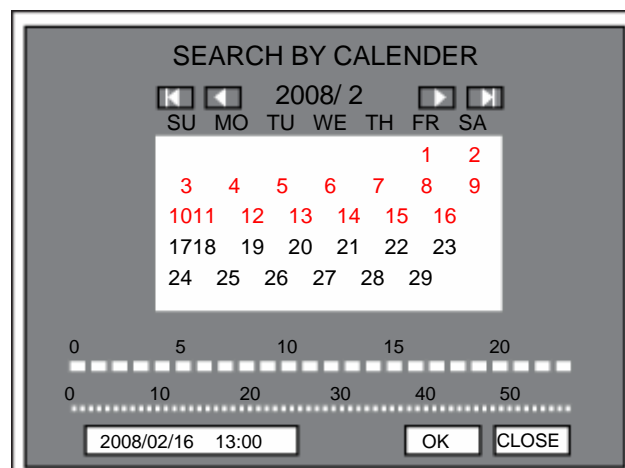
● **Search by time**
(1) input the date and time to search. Press 'Enter' button.

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

```
            SEARCH BY CALENDER
        ◄◄  ◄      2008/ 2      ►  ►►
        SU   MO   TU   WE   TH   FR   SA
                                  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

        0       5       10      15      20
        ■■■■■■■■■■■■■■■■■■■■■■■■■
        0      10      20      30      40      50
        ···································

        ┌──────────────────┐        ┌────┐ ┌─────┐
        │ 2008/02/16  13:00│        │ OK │ │CLOSE│
        └──────────────────┘        └────┘ └─────┘
```

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

```
                    SEARCH BY EVENT                      ②

        START TIME  [                    ]

        END TIME    [                    ]
                                                         ③
        CAMERA   □ ALL
                 □ CH1    □ CH2    □ CH3    □ CH4
                 □ CH5    □ CH6    □ CH7    □ CH8
                 □ CH9    □ CH10   □ CH11   □ CH12
   ④            □ CH13   □ CH14   □ CH15   □ CH16

        EVENT    □ MOTION   □ SENSOR   □ VLOSS

                 [ SEARCH ]    [ CLOSE ]
```

● **Go to first**
 playback from the beginning part of recording.
● **Go to last**
 playback from the recent part of recording.

Playback

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

◄◄	Rewind Frame playback	− Rewind during playback. − Playback by frame during pause.
►	Playback	Playback the recorded screen.
‖	Pause	Pause the screen.
►►	Fast forward Frame playback	−Fast forward during playback. −Playback by frame during pause.
■	stop	Stop the playback.

Backup

- **backup data using USB device.**

(1) Connect 'USB' device to the DVR's USB port.

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

(3) Select options from menu.

```
                    BACKUP

DEVICE        [                        ✚]

MEDIA TYPE    [        ✚]    [  FORMAT  ]

CHANNEL    ☐ ALL
           ☐ CH1   ☐ CH2   ☐ CH3   ☐ CH4
           ☐ CH5   ☐ CH6   ☐ CH7   ☐ CH8
           ☐ CH9   ☐ CH10  ☐ CH11  ☐ CH12
           ☐ CH13  ☐ CH14  ☐ CH15  ☐ CH16

FROM       [                        ]

TO         [                        ]

          [ BACKUP ]   [ CLOSE ]
```
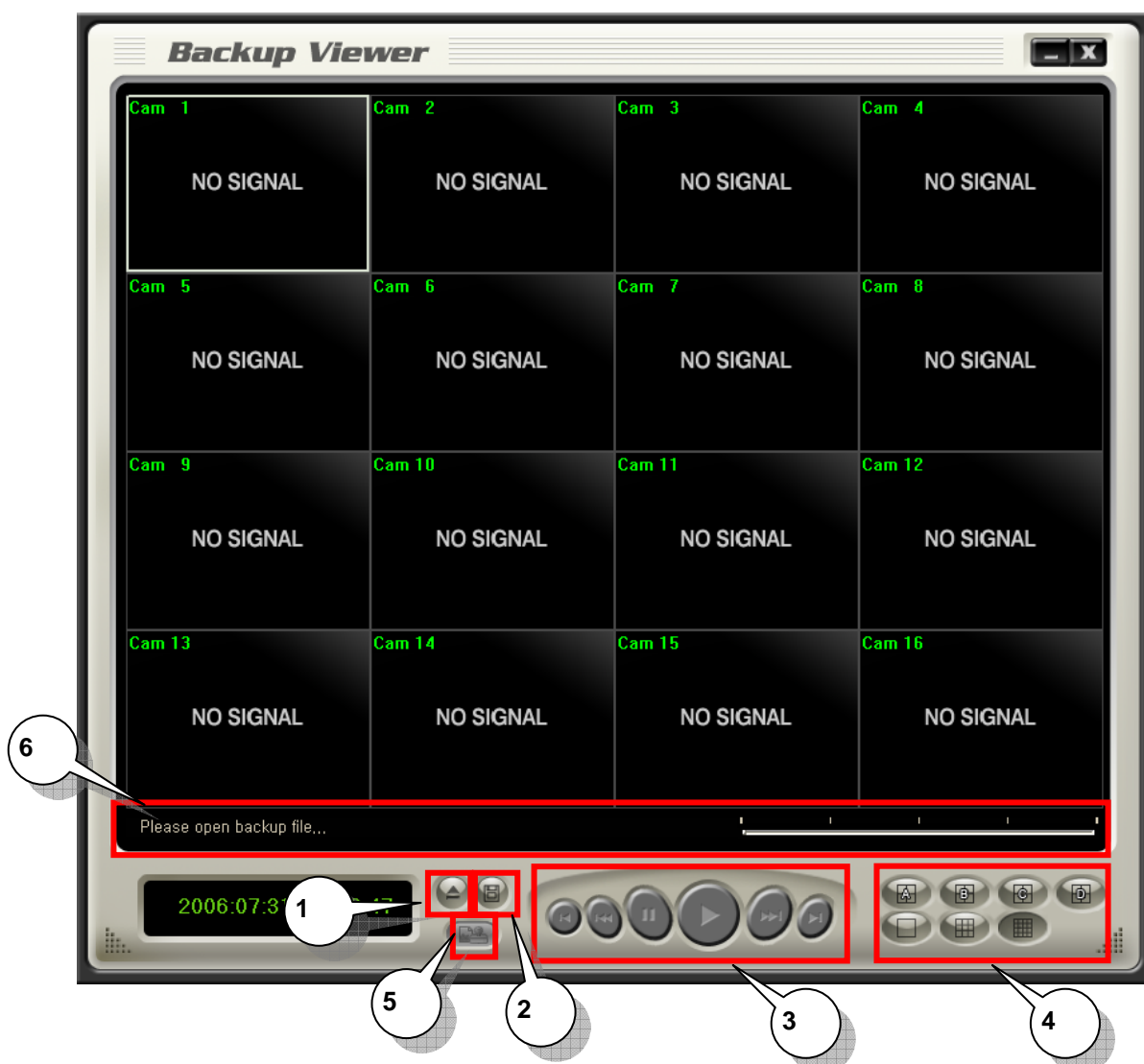
✓DEVICE – select the device to backup.
✓MEDIA TYPE– select media 'CD','DVD' etc to backup.
✓FORMAT – format the media before backup.
✓CHANNEL – select channels to backup.
✓FROM – input the date/time to start backup.
✓TO – input the date/time to finish backup.

(4) Select 'BACKUP' and press 'Enter' button.

● **Backup viewer**

(1) open file : Load the backup data.

(2) save : save the playback images as bmp file.

(3) playback : playback the backup data. (playback, pause, speed playback, playback by frame)

(4) division : 1 division, 4 division, 9 division, 16 division

(5) watermark : check if there is any modification of data.

(6) status box : display the status of backup viewer.

● **Open file**

(1) Click 'Open file' button from the main screen.

(2) Select files to playback.
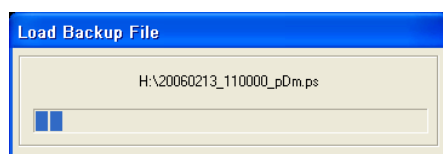
(3) After loading backup file is completed, you can playback backup data and save it as bmp files.

● **Audio playback**

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

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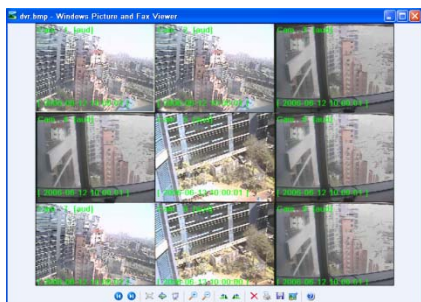
(1) Save backup data.
(2) Select screen division.
(3) Click 'save' button.
(4) Name the 'Bmp' file and save.

Image of saved bmp file as 9 division screen

● **Watermark**
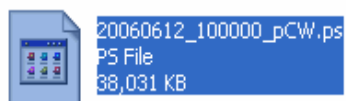
(1) Load files to check watermarking

(2) Click 'watermark check' button.

(3) Click playback or speed playback button.

[Watermarking Check Mode] Check Watermarking of [2006-07-24 17:00:02]

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

PTZ

●**PTZ operation**

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

press 'Enter' button in PTZ mode, you will see 'PTZ-ADVANC' menu.

●**PTZ general movement**

(1) moves pan/tilt camera from up/ down and right/ left using arrow keys.

(2) enlarge or reduce the screen size by ◀◀ / ▶▶ buttons while using zoom camera.

(3) can move to other channels by number button on remote controller.

```
        PTZ-CH1

            △
        ◁   ↵   ▷
        Z-  ▽   Z+
```
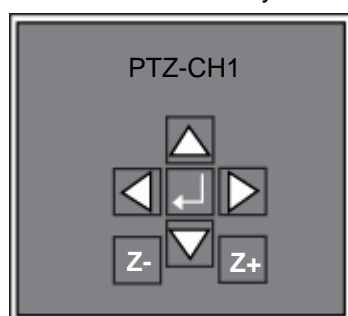
●**PTZ ADVANCE**

(1) adjust focus

 ① + : Focus in

 ② - : Focus out

 ③ AUTO : Auto focus mode

(2) Iris control

 ① + : Open iris

 ② - : Close iris

 ③ AUTO : Auto iris mode

```
    PTZ ADVANCE
      FOCUS
   AUTO   -   +
       IRIS
   AUTO   -   +
      SPEED
   -    9    +
      PRESET
   SCAN     GO
```

(3) operating speed

 ① + : increase the speed.

 ② - : decrease the speed.

(4) preset

 ① scanning

 ② shortcut
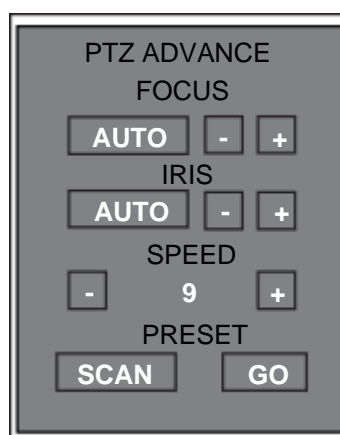
NOTE: you can set 'Preset' at System menu.
  [Menu   camera setup   preset]

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

Audio

- Turn on/ off audio.
- you can playback the audio in full screen mode.

```
          AUDIO

    AUDIO ON        ✦
```

Audio On : Turn on audio
Mute : Turn off audio

Log search

- search every event happened during product operation.

```
                    LOG VIEW


    EVENT TYPE  ☐ ALL
                ☐ SYSTEM      ☐ HDD
                ☐ RECORD      ☐ DB
                ☐ PROCESS     ☐ NETWORK
         FROM   2007/08/29 00:00:00
           TO   2007/08/29 00:00:00
                SEARCH      CLOSE
```

✓ event type – select types of event to search
✓ from – input date/time to start searching
✓ to – input date/time to finish searching

- select 'Search' and press 'Enter' button to start log search.

Remote –controller ID

● **Remote-controller ID**
(1) can use to operate several DVRs at one site with one remote-controller.
(2) can operate a certain DVR according to the registered ID value.

1

2007 9/3 20:00   R:01   A B 1%

① DVR ID

● It will turn yellow if remote controller's ID matches with DVR ID. Then you can operate the DVR.

● It will turn red if remote controller's ID does not match with DVR ID. Then you cannot operate the DVR.

● you can set the DVR IDs at System menu.
  [menu   system   miscellaneous]

● setting up remote-controller ID
(1) press 'DVR-ID' button on the remote-controller.
(2) it will beep. Then you can input 'Remote-controller ID'.
(3) press the DVR ID to operate using number buttons.

R:01

Not working

Remote-controller ID : 02

R:02   working
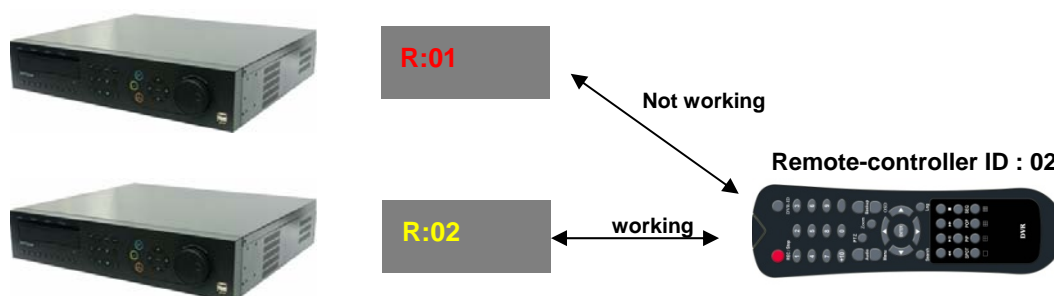
Chapter 4 → System setup

Before setting up system

● **Starting system menu**
   (1) press 'Menu' button.
   (2) input administrator's password on the password box.

> **NOTE: default value: 0000**

● **Menu format**

DISPLAY	CAMERA	RECORD	EVENT	STORAGE	NETWORK	SYSTEM
OSD	GENERAL	PROPERTY	MOTION	HDD FORMAT	SETUP	CONFIG
LIVE-SEQ(FULL)	PTZ	SCHEDULE	SENSOR	BACKUP	DDNS	TIME
LIVE-SEQ(QUAD)	PRESET	MISC	ALARM	AUTO-BACKUP	CLIENT	PASSWORD
SPOT-SEQ(FULL)	SCAN POINT				ACCESSLIST	SOFTWARE
SPOT-SEQ(QUAD)	COLOR				USER	LOG VIEW
MISC	POSITION				SERVER	MISC
						SHUTDOWN
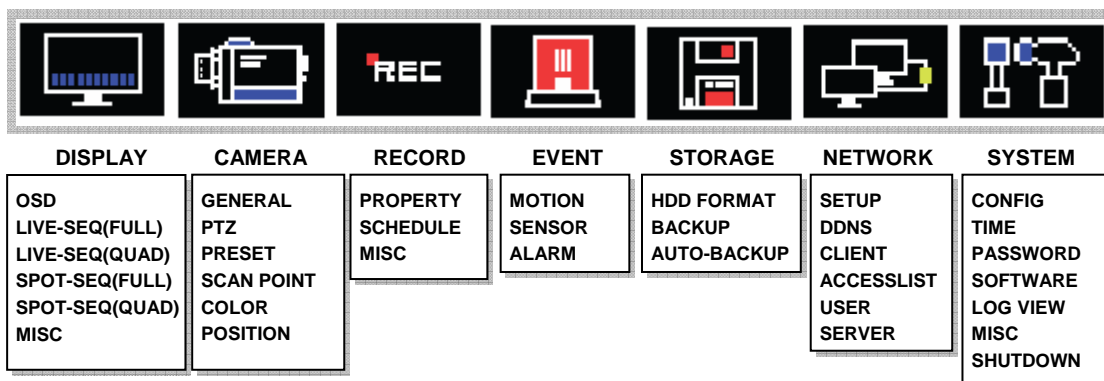
● **How to use Menu**

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

**OSD
LIVE-SEQ(FULL)
LIVE-SEQ(QUAD)
SPOT-SEQ(FULL)
SPOT-SEQ(QUAD)
MISC**
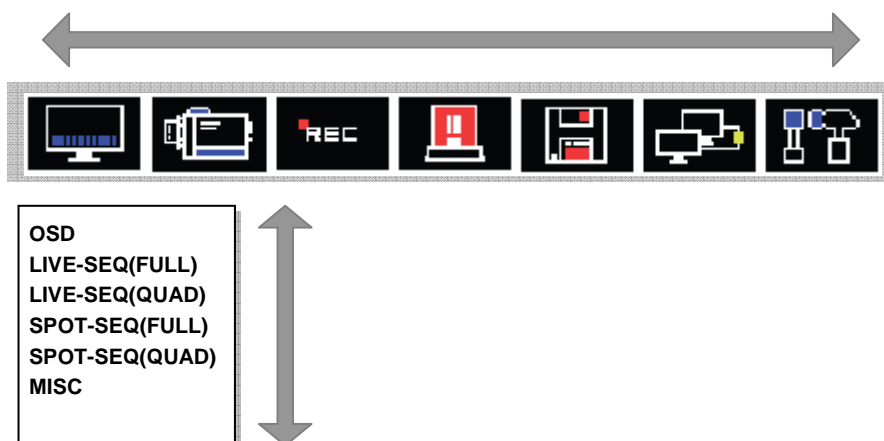
● **Saving/Canceling menu setup**

➢ saving menu setup : select 'OK' and press 'Enter' button.
➢ canceling menu setup : select 'Cancel' and press 'Enter' or 'Menu' buttons.

OK	CANCEL
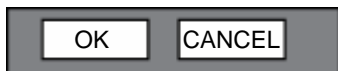
● **Text input box**
(1) select letters/symbols using arrow buttons.
(2) press 'Enter' button to select the letter/symbol.
(3) the selected letters/symbols will show on the top text box.

```
                    TEXT INPUT
  ┌───────────────────────────────────┐
  │                                   │
  └───────────────────────────────────┘
  0  1  2  3  4  5  6  7  8  9
  .  ,  _  +  -  *  /  @  #  ?
  A  B  C  D  E  F  G  H  I  J
  K  L  M  N  O  P  Q  R  S  T
  U  V  W  X  Y  Z
  CAP INS ← → BS DEL CLS OK CANCEL
```
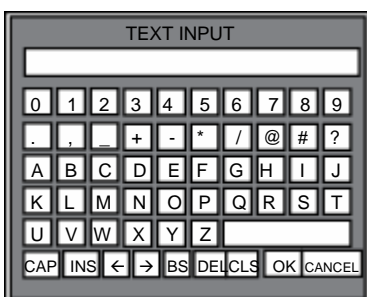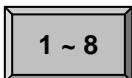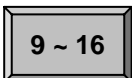
TEXT input box

● **Moving to the next menu page**

Ex)

```
  ▣      CAMERA - PTZ
  CH   ID      PROTOCOL        BAUD
   1  [000]   [PELCO_D ✚]    [4800 ✚]
   2  [000]   [PELCO_D ✚]    [4800 ✚]
   3  [000]   [PELCO_D ✚]    [4800 ✚]
   4  [000]   [PELCO_D ✚]    [4800 ✚]
   5  [000]   [PELCO_D ✚]    [4800 ✚]
   6  [000]   [PELCO_D ✚]    [4800 ✚]
   7  [000]   [PELCO_D ✚]    [4800 ✚]
   8  [000]   [PELCO_D ✚]    [4800 ✚]

  [ 1-8 ] [ 9-16 ]            [ OK ] [CANCEL]
```
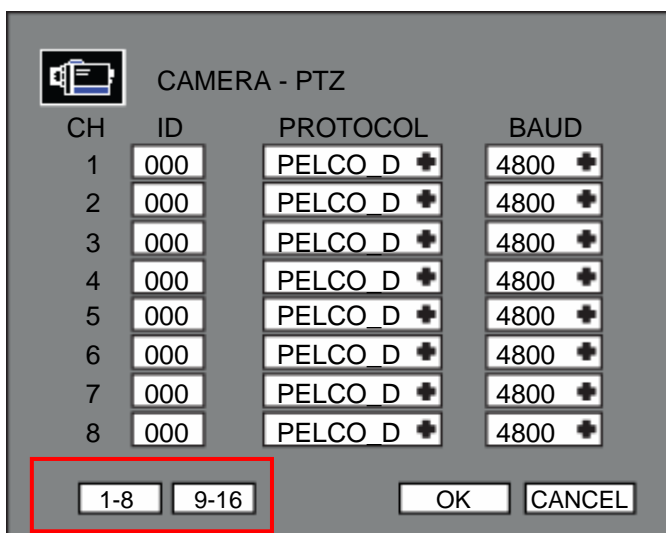
Press **1 ~ 8** or **9 ~ 16** button to move to the next menu page.

Setting up screen display

● **Screen display setup – On Screen Display**
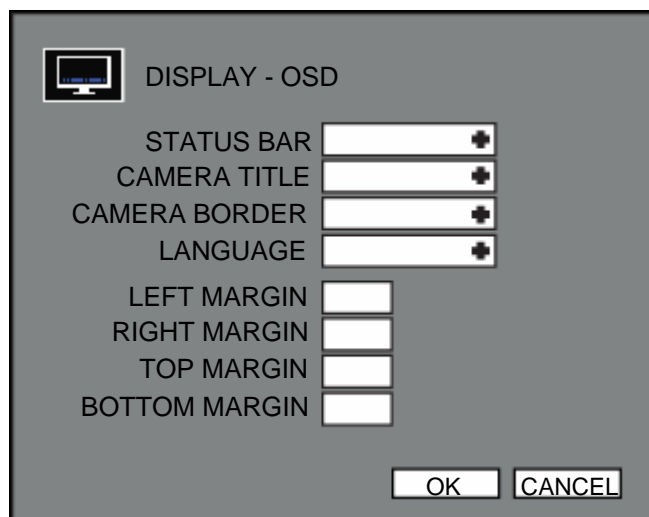
✓ Status bar – indicate the status bar on the bottom of screen.

✓ Camera title – indicate the name of each channel.

✓Camera boarder – indicate the boarder-line of each channel.

✓Language – select menu language.

✓Left margin – adjust the left margin of OSD.

✓Right margin – adjust the right margin of OSD.

✓Top margin – adjust the top margin of OSD.

✓Bottom margin - adjust the bottom margin of OSD.

●**Screen display setup – live sequence scanning (full screen)**

Setup duration time for live sequence scanning in full screen.

NOTE : can input maximum 99 second.

```
DISPLAY - LIVE-SEQ(FULL)
CH    TIME      CH    TIME
1     02        9     02
2     02        10    02
3     02        11    02
4     02        12    02
5     02        13    02
6     02        14    02
7     02        15    02
8     02        16    02

                    OK    CANCEL
```

●**Screen display setup – live sequence scanning (quad screen)**

Setup duration time for live sequence scanning in quad screen.

NOTE : can input maximum 99 second.

```
DISPLAY - LIVE-SEQ(QUAD)

QUAD    TIME
1       03
2       03
3       03
4       03



                    OK    CANCEL
```

Quad screen number	camera
1	Camera 1 ~ Camera 4
2	Camera 5 ~ Camera 8
3	Camera 6 ~ Camera 9

[IV-STA-5009]

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

[IV-STA-5016]

●**Screen display setup – spot sequence scanning (full screen)**

Setup duration time for spot sequence scanning in full screen.

NOTE : can input maximum 99 second.

```
DISPLAY - SPOT-SEQ(FULL)
CH    TIME      CH    TIME
1     02        9     02
2     02        10    02
3     02        11    02
4     02        12    02
5     02        13    02
6     02        14    02
7     02        15    02
8     02        16    02

                    OK    CANCEL
```

●**Screen display setup – spot sequence scanning (quad screen)**

Setup duration time for spot sequence scanning in quad screen.

> **NOTE : can input maximum 99 second.**

```
DISPLAY - SPOT-SEQ(QUAD)

        QUAD    TIME
          1      03
          2      03
          3      03
          4      03


                        OK    CANCEL
```

Quad screen number	camera
1	Camera 1 ~ Camera 4
2	Camera 5 ~ Camera 8
3	Camera 6 ~ Camera 9

[IV-STA-5009]

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

[IV-STA-5016]

● **Screen display setup – miscellaneous**

```
DISPLAY - MISC


DEINTERLACE    ON
EVENT POPUP    OFF

VGA FREQ       60Hz
VIDEO DETECT   AUTO DETECT



                OK    CANCEL
```
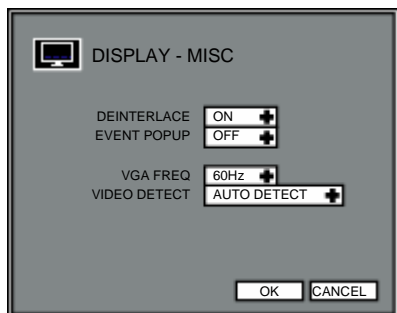
● **Deinterlace**

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

● **Event popup**

if any motion/ sensor activity is detected, detected channel will show in full screen.
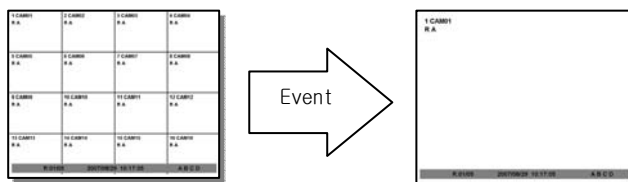
● **VGA frequency**

   setup the frequency of connected VGA monitor.

● **Auto setup**

   AUTO DETECT : automatically detects video signals.

> **NOTE : it operates during system booting. It is booted as PAL or NTSC type according to the video signal of channel 1.**

VIDEO DETECT   AUTO DETECT ✚

AUTODETECT
SWITCH
NTSC
PAL
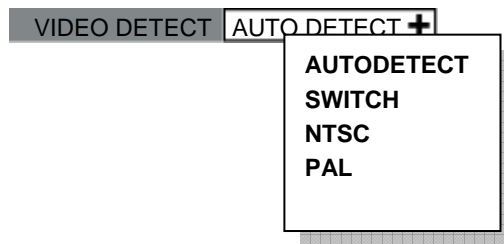
✓**SWITCH : detect video signals according to main-board jumper within the product.**
✓**NTSC : set video signal as NTSC.**
✓**PAL : set video signal as PAL.**

Camera Setup

● **Camera setup** – general

➢ title – input channel names.
➢ show– show or hide channels.
➢ audio – select connected audio channels.

```
┌─────────────────────────────────────────┐
│  ▄▄▄    CAMERA - GENERAL                 │
│                                          │
│  CH    TITLE      SHOW       AUDIO       │
│  1    CAM01      ON  ✚     CH-01  ✚      │
│  2    CAM02      ON  ✚     CH-02  ✚      │
│  3    CAM03      ON  ✚     CH-03  ✚      │
│  4    CAM04      ON  ✚     CH-04  ✚      │
│  5    CAM05      OFF ✚     <NONE> ✚      │
│  6    CAM06      ON  ✚     <NONE> ✚      │
│  7    CAM07      ON  ✚     <NONE> ✚      │
│  8    CAM08      OFF ✚     <NONE> ✚      │
│                                          │
│  1 – 8   9 – 16        OK    CANCEL      │
└─────────────────────────────────────────┘
```

● **Camera setup – PTZ**

➢ ID – input camera IDs.
➢ protocol – select the registered protocol.
➢ baud – select the registered baud.

```
┌──────────────────────────────────────────────┐
│  ▄▄▄    CAMERA - PTZ                          │
│                                               │
│  CH    ID       PROTOCOL         BAUD         │
│  1    000      PELCO_D ✚       4800 ✚        │
│  2    000      PELCO_D ✚       4800 ✚        │
│  3    000      PELCO_D ✚       4800 ✚        │
│  4    000      PELCO_D ✚       4800 ✚        │
│  5    000      PELCO_D ✚       4800 ✚        │
│  6    000      PELCO_D ✚       4800 ✚        │
│  7    000      PELCO_D ✚       4800 ✚        │
│  8    000      PELCO_D ✚       4800 ✚        │
│                                               │
│  1-8    9-16             OK     CANCEL         │
└──────────────────────────────────────────────┘
```

●**Camera setup – preset**

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

<table>
<tr><td colspan="7">CAMERA - PRESET</td></tr>
<tr><td colspan="3">CAMERA   1 +</td><td colspan="4">PAGE   1 +</td></tr>
<tr><td colspan="3"># NAME</td><td colspan="4"># NAME</td></tr>
<tr><td>1</td><td>PTZ01</td><td>SET</td><td>CLE</td><td>9 PTZ09</td><td>SET</td><td>CLE</td></tr>
<tr><td>2</td><td>PTZ02</td><td>SET</td><td>CLE</td><td>10 PTZ10</td><td>SET</td><td>CLE</td></tr>
<tr><td>3</td><td>PTZ03</td><td>SET</td><td>CLE</td><td>11 PTZ11</td><td>SET</td><td>CLE</td></tr>
<tr><td>4</td><td>PTZ04</td><td>SET</td><td>CLE</td><td>12 PTZ12</td><td>SET</td><td>CLE</td></tr>
<tr><td>5</td><td>PTZ05</td><td>SET</td><td>CLE</td><td>13 PTZ13</td><td>SET</td><td>CLE</td></tr>
<tr><td>6</td><td>PTZ06</td><td>SET</td><td>CLE</td><td>14 PTZ14</td><td>SET</td><td>CLE</td></tr>
<tr><td>7</td><td>PTZ07</td><td>SET</td><td>CLE</td><td>15 PTZ15</td><td>SET</td><td>CLE</td></tr>
<tr><td>8</td><td>PTZ08</td><td>SET</td><td>CLE</td><td>16 PTZ16</td><td>SET</td><td>CLE</td></tr>
<tr><td colspan="3">CLEAR ALL</td><td colspan="2"></td><td>OK</td><td>CANCEL</td></tr>
</table>
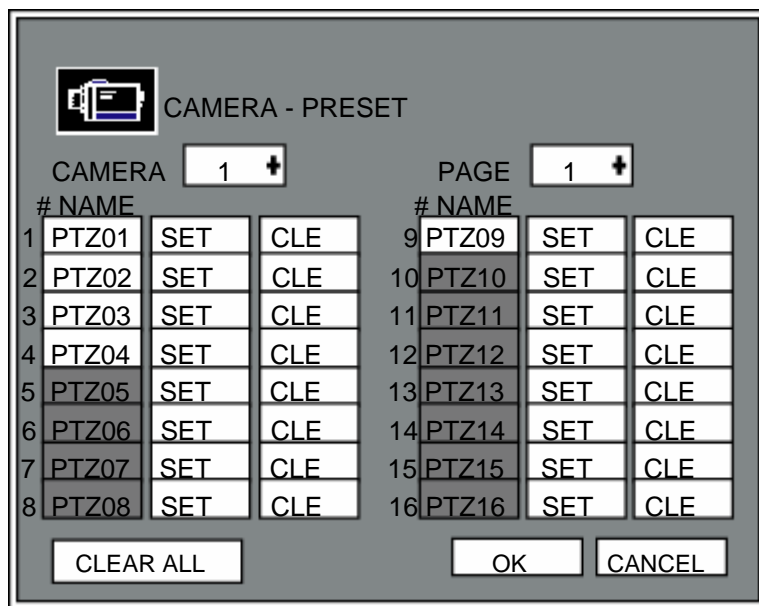
✓ camera – select cameras to setup preset positions.

✓ page – move to the next page.

✓ clear all – clear all the setup values.

   (1) Select camera.

   (2) Select 'Set' button.

   (3) Then the channel turns PTZ mode.

   (4) Move the camera to get the position you want.

   (5) Press 'Enter' button to save the preset.
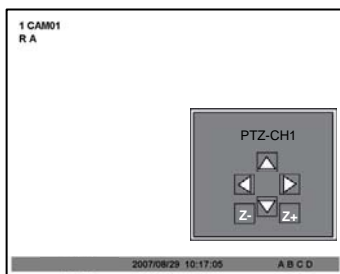
●**Screen display setup – scan point**

> ➢ camera – select a camera to set scan point.
> ➢ list – select a list to save scan point.

> ➢ preset – select preset position you want.
> ➢ clear all – clear all setup values.

CAMERA – SCAN POINT

CAMERA	1		LIST	1	
#	PRESET	SEC	#	PRESET	SEC
1	PTZ01	03	9	OFF	03
2	PTZ09	03	10	OFF	03
3	PTZ04	03	11	OFF	03
4	PTZ25	03	12	OFF	03
5	OFF	03	13	OFF	03
6	OFF	03	14	OFF	03
7	OFF	03	15	OFF	03
8	OFF	03	16	OFF	03

CLEAR ALL   OK   CANCEL
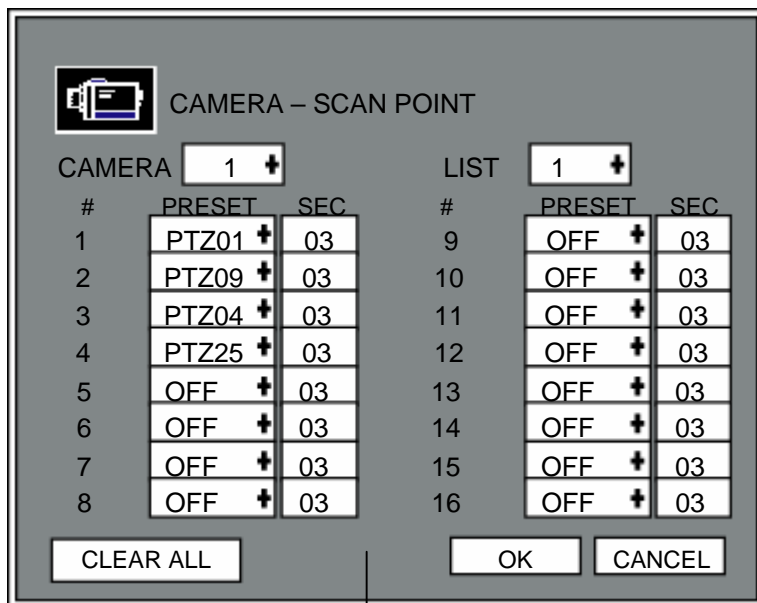
Ex)
Camera 1 will move following the path as below.
PTZ01 → 3sec→ PTZ09 → 3sec→ PTZ04 → 3sec→ PTZ25 → 3sec→ PTZ01 →……..

● **Camera setup – adjusting color**

  ➢ camera – select a camera.
  ➢ bright – adjust color brightness.
  ➢ contrast – adjust color contrast.
  ➢ color – adjust camera color
  ➢ default value – set it as default value.

CAMERA - COLOR

CAMERA
CH1

BRIGHT
0

CONTRAST
0

COLOR
0

DEFAULT

OK   CANCEL
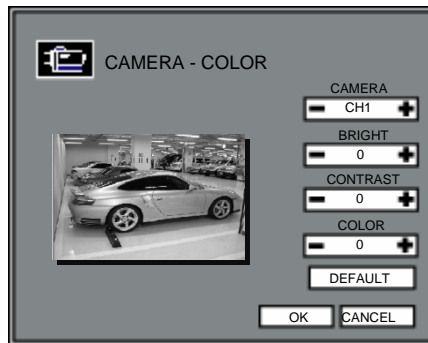
● **Camera setup – adjusting position**

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

CAMERA - POSITION

CAMERA
CH1

LEFT/RIGHT
0

DEFAULT

OK   CANCEL
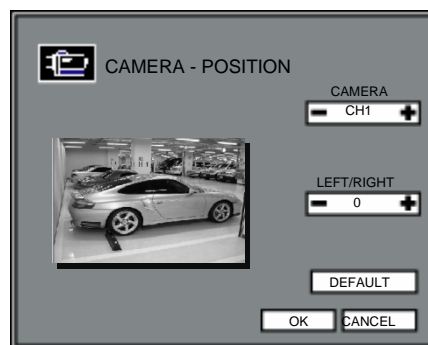
Record setup

● **Record setup – recording quality**

```
┌─────────────────────────────────────────────────┐
│                                                   │
│   ┌─────┐                                         │
│   │ REC │   RECORD - PROPERTY                      │
│   └─────┘                                         │
│                                                   │
│   CH   RESOLUTION      QUALITY       FRAMERATE     │
│   1   [360X240  ✚]    [NORMAL  ✚]   [8      ✚]    │
│   2   [360X240  ✚]    [NORMAL  ✚]   [8      ✚]    │
│   3   [360X240  ✚]    [NORMAL  ✚]   [8      ✚]    │
│   4   [360X240  ✚]    [NORMAL  ✚]   [8      ✚]    │
│   5   [360X240  ✚]    [NORMAL  ✚]   [8      ✚]    │
│   6   [360X240  ✚]    [NORMAL  ✚]   [8      ✚]    │
│   7   [360X240  ✚]    [NORMAL  ✚]   [8      ✚]    │
│   8   [360X240  ✚]    [NORMAL  ✚]   [8      ✚]    │
│   ALL [360X240  ✚]    [NORMAL  ✚]   [8      ✚]    │
│   [1-8] [9-16]  TOTAL: 120/120  [OK]  [CANCEL]    │
└─────────────────────────────────────────────────┘
```

➢ resolution – set recording resolution for each channel.

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

➢ quality – set recording quality for each channel.

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

➢ Frame rate
  set frame rate for each channel.

●**Record setup – schedule**

➢ system records according to set schedule.
➢ see below to see how to set up schedule.

C	Continuous recording
E	Recording when even occurred
(Blank)	Not recording

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

REC	RECORD - SCHEDULE																						
ALL	0					5					10					15					20			
SU	C	C	C	C	C																			
MO																								
TU																								
WE															E	E	E	E						
TH																								
FR																								
SA																								

C: Continuous   E: Event

CHANNEL   ALL ✛   OK   CANCEL

●**Record setup – miscellaneous**

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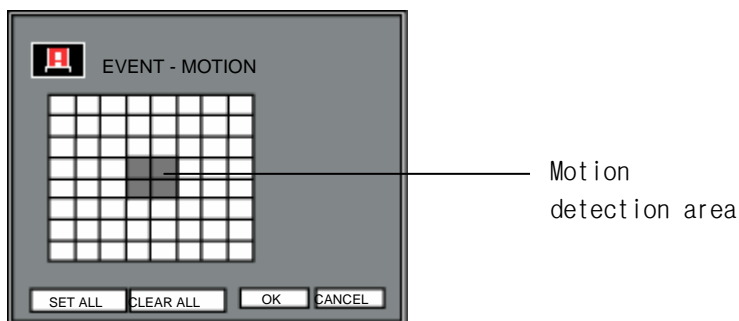➢ watermark – activate watermarking function.
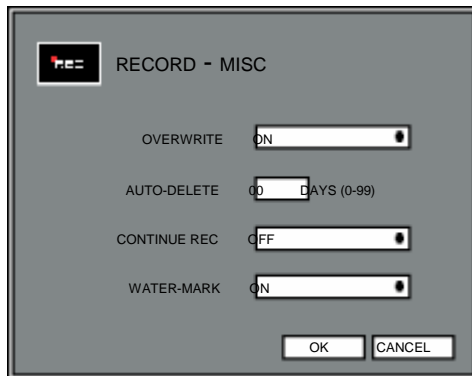
RECORD - MISC

OVERWRITE   ON

AUTO-DELETE   00   DAYS (0-99)

CONTINUE REC   OFF

WATER-MARK   ON

OK   CANCEL

Event setup

●**Motion**

```
          ┌──────────────────────────────────────┐
          │  [■]  EVENT - MOTION                  │
          │                                       │
          │  CH  MOTION-AREA  SENSITIVITY ALARM-OUT│
          │  1    [ALL  ✚]    [5  ✚]     [NONE ✚] │
          │  2    [ALL  ✚]    [5  ✚]     [NONE ✚] │
          │  3    [OFF  ✚]    [0  ✚]     [NONE ✚] │
          │  4    [OFF  ✚]    [0  ✚]     [NONE ✚] │
          │  5    [ALL  ✚]    [5  ✚]     [NONE ✚] │
          │  6    [ALL  ✚]    [5  ✚]     [NONE ✚] │
          │  7    [ALL  ✚]    [5  ✚]     [NONE ✚] │
          │  8    [ALL  ✚]    [5  ✚]     [NONE ✚] │
          │                                       │
          │  [1-8] [9-16]          [OK] [CANCEL]  │
          └──────────────────────────────────────┘
```

➢Motion area – select area to detect motion.
   (1) all – set the whole screen as motion area.
   (2) part – set motion area by block unit.

```
   ┌────────────────────────────┐
   │  [■]  EVENT - MOTION        │
   │   ┌──────────────────┐      │
   │   │                  │      │
   │   │                  │─────────── Motion
   │   │      ▓           │             detection area
   │   │                  │      │
   │   │                  │      │
   │   └──────────────────┘      │
   │ [SET ALL][CLEAR ALL][OK][CANCEL]│
   └────────────────────────────┘
```

   (3) off – do not detect motion.

➢sensitivity – select level of motion sensitivity.
          level of sensitivity : 0 < 1 < 2 < ….. <9

➢Alarm out – set to activate alarm system when any motion is detected.

●**Event setup - sensor**

> ➤ record – selected channel will be recorded when the sensor is detected.
> ➤ type – set the type of connected sensor.
> ➤ alarm out – alarm is activated when the sensor is detected.

```
┌──────────────────────────────────────────┐
│  [🔔]  EVENT - SENSOR                      │
│                                            │
│ SENSOR   RECORD      TYPE     ALARM-OUT     │
│    1    │OFF    ✚│  │NO ✚│  │NONE    ✚│   │
│    2    │OFF    ✚│  │NO ✚│  │NONE    ✚│   │
│    3    │OFF    ✚│  │NO ✚│  │NONE    ✚│   │
│    4    │OFF    ✚│  │NO ✚│  │NONE    ✚│   │
│    5    │OFF    ✚│  │NO ✚│  │NONE    ✚│   │
│    6    │OFF    ✚│  │NO ✚│  │NONE    ✚│   │
│    7    │OFF    ✚│  │NO ✚│  │NONE    ✚│   │
│    8    │OFF    ✚│  │NO ✚│  │NONE    ✚│   │
│                                            │
│  │ 1-8 │  │ 9-16 │        │ OK │ │CANCEL│  │
└──────────────────────────────────────────┘
```

●**Event setup – alarm out**

> ➤ pre-recording time – set recording time before event occurs.
> ➤ post-recording time – set recording time after event occurs.
> ➤ buzzer out – activate buzzer when the event occurs.
> ➤ alarm out time – set duration time to operate alarm system.

```
┌──────────────────────────────────────────┐
│   [🔔]   EVENT - ALARM                     │
│                                            │
│                                            │
│  PRE-REC TIME   │ 04  │   SEC (0-30)       │
│                                            │
│  POST-REC TIME  │ 04  │   SEC (0-120)      │
│                                            │
│       BUZZER    │ ON ✚│                    │
│                                            │
│     OUT TIME    │ 005 │   SEC (0-120)      │
│                                            │
│                          │ OK │ │CANCEL│   │
└──────────────────────────────────────────┘
```
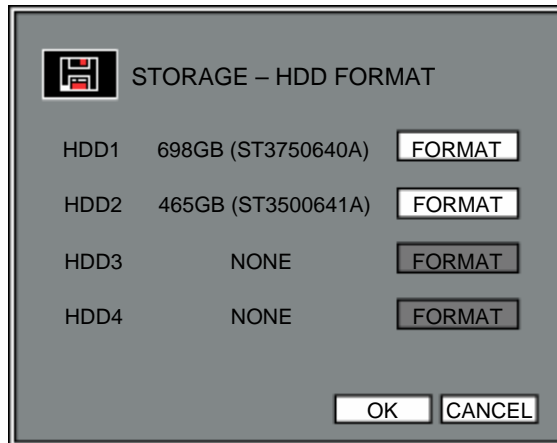
Storage

● **Storage – format**

➢ You must format HDD when you install HDD.

(1) select installed HDD and format.
(2) system will reboot after formatting is completed.

```
┌──────────────────────────────────────────┐
│  [ICON]   STORAGE – HDD FORMAT             │
│                                            │
│  HDD1    698GB (ST3750640A)   [FORMAT]     │
│                                            │
│  HDD2    465GB (ST3500641A)   [FORMAT]     │
│                                            │
│  HDD3         NONE            [FORMAT]     │
│                                            │
│  HDD4         NONE            [FORMAT]     │
│                                            │
│                             [ OK ][CANCEL] │
└──────────────────────────────────────────┘
```

● **Storage – AUTO-BACKUP**

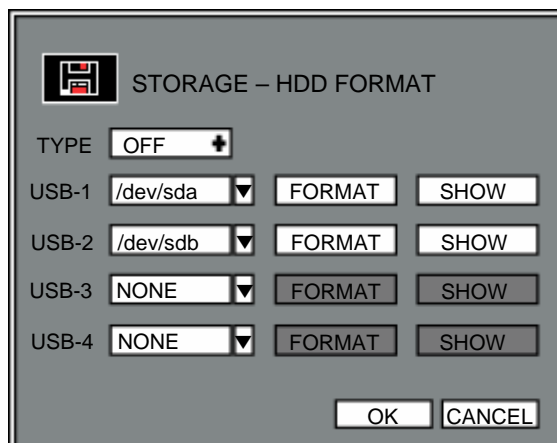➢ AUTO-BACKUP –idview.com provides external USB TYPE storage. You can backup data using.

TYPE : set operation types of AUTO-BACKUP.
  (1) OFF: turn off AUTO-BACKUP function.
  (2) EXTEND: when local hard is full, it will copy old data to USB hard to extend data save time.
  (3) MIRROR: saves the same data saved in local hard to USB hard at the same time.

USB1~4 : select HDD of connected USB type.
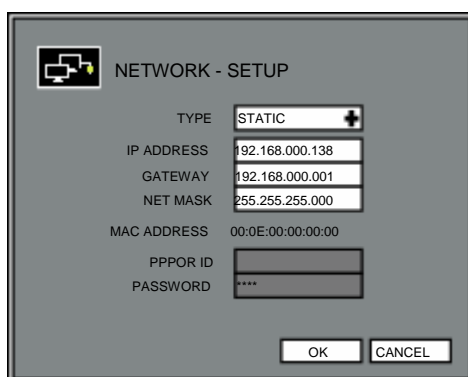FORMAT: format HDD of connected USB type.
SHOW: show saved file info of HDD of connected USB type.

```
┌──────────────────────────────────────────┐
│   [ICON]   STORAGE – HDD FORMAT            │
│                                            │
│  TYPE  [ OFF      ▪ ]                       │
│  USB-1 [/dev/sda  ▼] [ FORMAT ] [ SHOW ]   │
│  USB-2 [/dev/sdb  ▼] [ FORMAT ] [ SHOW ]   │
│  USB-3 [NONE      ▼] [ FORMAT ] [ SHOW ]   │
│  USB-4 [NONE      ▼] [ FORMAT ] [ SHOW ]   │
│                             [ OK ][CANCEL] │
└──────────────────────────────────────────┘
```

Network

● **Network – setup**

➢ static – input static IP address and gateway, net mask.

```
       NETWORK - SETUP

         TYPE        STATIC       ✚
   IP ADDRESS        192.168.000.138
      GATEWAY        192.168.000.001
     NET MASK        255.255.255.000
  MAC ADDRESS        00:0E:00:00:00:00

     PPPOR ID
     PASSWORD        ****

                          OK    CANCEL
```
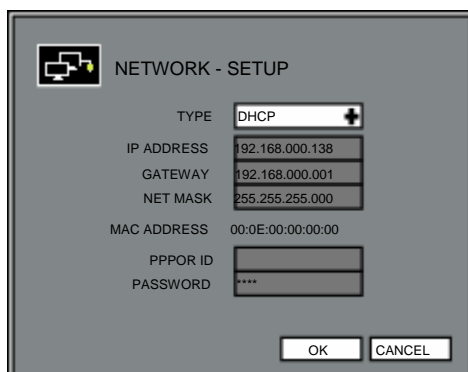
➢ DHCP – system automatically recognizes IP address.

```
       NETWORK - SETUP

         TYPE        DHCP         ✚
   IP ADDRESS        192.168.000.138
      GATEWAY        192.168.000.001
     NET MASK        255.255.255.000
  MAC ADDRESS        00:0E:00:00:00:00

     PPPOR ID
     PASSWORD        ****

                          OK    CANCEL
```
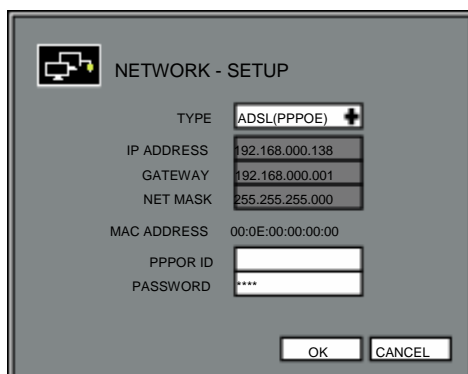
➢PPPOE – ADSL only, input registered ID and password.

```
       NETWORK - SETUP

         TYPE        ADSL(PPPOE)  ✚
   IP ADDRESS        192.168.000.138
      GATEWAY        192.168.000.001
     NET MASK        255.255.255.000
  MAC ADDRESS        00:0E:00:00:00:00

     PPPOR ID
     PASSWORD        ****

                          OK    CANCEL
```

● **Network - DDNS**

NOTE : system supports free DDNS sites such as dyndns.com, ipupdater.com.

  ➢ server – select registered server.
  ➢ server-URL – indicate registered server URL
  ➢ user ID – input ID registered to server.
  ➢ password – input password registered to server.
  ➢ group ID – input group ID registered to server.
  ➢ status – indicate operation status of DDNS.
  ➢ test – try to connect with ID and password registered to server.

```
         NETWORK - DDNS

    SERVER       DYNDNS.ORG    ✚
    SERVER-URL   www.dyndns.org

    USER ID      [          ]
    PASSWORD     [          ]
    GROUP ID     [          ]

    STATUS       DDNS OFF

    TEST               OK    CANCEL
```

● **Client**

  ➢ password - input password to connect to CMS S/W
        (same as CMS Administrator's passwoard.)
  ➢ client port – select port to connect.
  ➢ web port – select web port to connect to web browser.
  ➢ bandwidth - limit transmitting data capacity through the network.
  ➢DVR-ID - input DVR name to connect CMS S/W.

```
         NETWORK - CLIENT

    PASSWORD     ****

    CLIENT PORT  7620 - 7624   ✚

    WEB-PORT     0080

    BANDWIDTH    UNLIMITED     ✚

    DVR-ID       135

                      OK    CANCEL
```

● **Access list**

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

```
          NETWORK – ACCESS LIST

Client  1  000.000.000.000    Client  6  000.000.000.000
Client  2  000.000.000.000    Client  7  000.000.000.000
Client  3  000.000.000.000    Client  8  000.000.000.000
Client  4  000.000.000.000    Client  9  000.000.000.000
Client  5  000.000.000.000    Client 10  000.000.000.000

                                    OK    CANCEL
```

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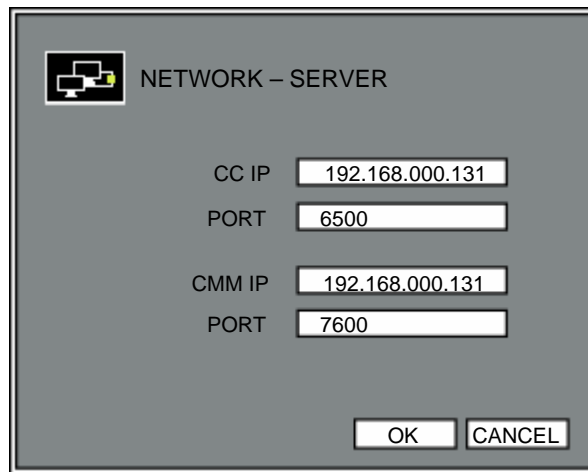
● **User**

➢ you can add user's ID and password for network connection.

```
          NETWORK – ACCESS LIST

                 USER-ID              PASSWORD
NET-ID 1 [              ]          [ **** ]
NET-ID 2 [              ]          [ **** ]
NET-ID 3 [              ]          [ **** ]
NET-ID 4 [              ]          [ **** ]


                                 OK    CANCEL
```

● **Server**

➢CC IP – input connection info of CAMS CC.
➢PORT – input connection port of CAMS CC. (default value: 6500)

➢CMM IP – input connection info of CAMS CMM.
➢PORT – input connection port of CAMS CMM. (default value:7600)

NETWORK – SERVER

CC IP	192.168.000.131
PORT	6500
CMM IP	192.168.000.131
PORT	7600

OK   CANCEL

System

● **System – Configuration info**

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

➢Load configuration – loads saved configuration information.

SYSTEM - CONFIG

LOAD CONFIG
SAVE CONFIG
DEFAULT

OK   CANCEL

LOAD CONFIG

Device   /dev/ sda

File List   config_16_00.cfg

OK   CANCEL
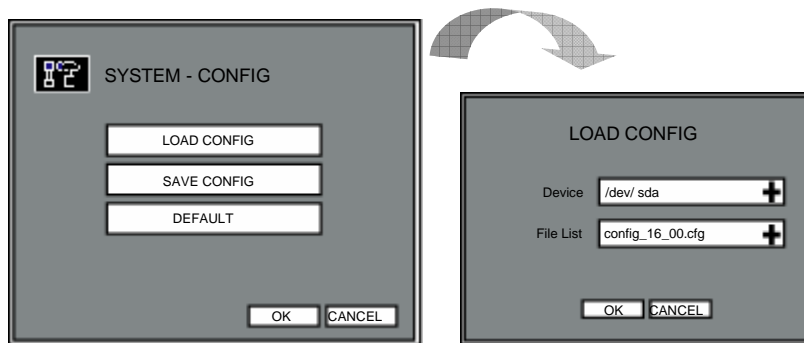
➢Save configuration – save the values set in the current menu.

SYSTEM - CONFIG

LOAD CONFIG
SAVE CONFIG
DEFAULT

OK   CANCEL

SAVE CONFIG

Device   /dev/ sda

FILE NAME   config_16_00.cfg

OK   CANCEL
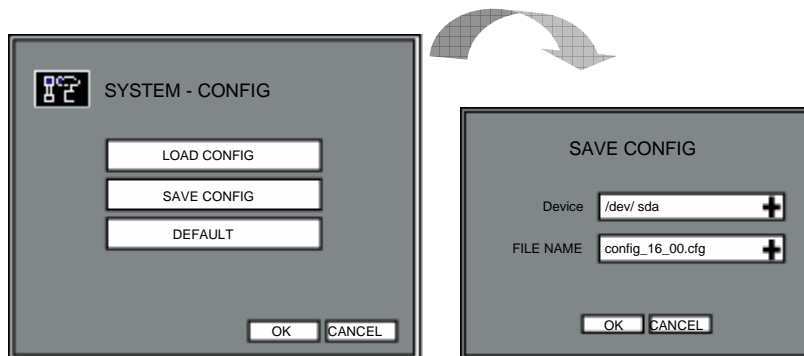
➢Default value – set it as default value.

● **System – Time management**

```
             SYSTEM - TIME
    CURRENT TIME  2008/03/03 13:39:01
    DATE FORMAT   YY/MM/DD        ✚
    TIME FORMAT   24HOUR          ✚
       TIME ZONE  +09: 00 Seoul   ✚
DAY LIGHT SAVING  OFF             ✚
           START  01/00 00:00
             END  01/00 00:00
       TIME SYNC  OFF             ✚
       SERVER IP                    TEST
    CHANGE TIME             OK    CANCEL
```
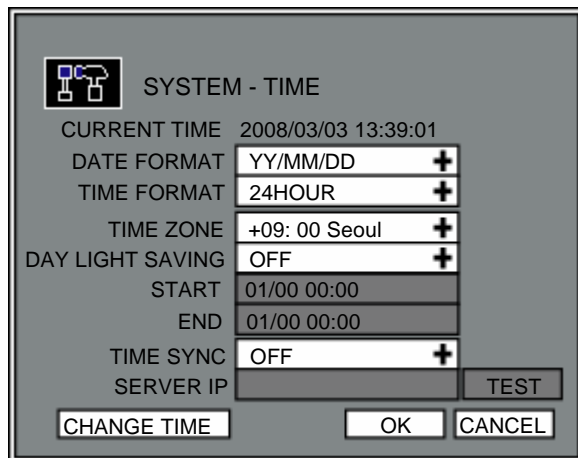
➤Current time – indicates current time of system.
➤Date format – select date format to display.

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

➤Time format – select time format to display.

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

➤Time zone – select the time different from standard time of time-server.

➤Summer time
  set summer time period.
    (1) starting time : input starting date/time of summer time.
    (2) ending time : input ending date/time of summer time.

➢Time synchronization

System automatically connects to internet time-server to check current time.

➢Server IP – input time-server IP address.

Omit 'www'.

Select 'OK' and check if time-server works.

example) time.kriss.re.kr   correct input

www.time.kriss.re.kr   wrong input

➢Change time – change system time.

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

●**System – Password management**

SYSTEM - PASSWORD

ADIN PASSWORD   ****
USER PASSWORD   ****

SETUP CHECK   ON   ✚
LOGIN CHECK   OFF   ✚
RECORD CHECK   OFF   ✚
SEARCH CHECK   OFF   ✚
BACKUP CHECK   OFF   ✚

OK   CANCEL

✓ administrator password – change administrator password.
✓ user password – change user password.
✓ setup check – set whether to input user password or not before accessing system menu.
✓ login check – set whether to input user password or not after system booting.
✓ record check – set whether to input user password or not when it starts/ends recording.
✓ search check – set whether to input user password or not when searching record.
✓ backup check – set whether to input user password or not when backup.

●**System – Software**

➢Show current software version.
➢Upgrade firmware software.

```
┌─────────────────────────────────────────┐
│  ┌──┐                                      │
│  │  │   SYSTEM - SOFTWARE                  │
│  └──┘                                      │
│     ENC. FIRMWARE  XXXXXXXX                │
│     DEC. FIRMWARE  XXXXXXXX                │
│       BOOTLOADER   XXXXXXXX                │
│           KERNEL   XXXXXXXX                │
│      APP. VERSION  XXXXXXXX                │
│               UI   XXXXXXXX                │
│               DB   XXXXXXXX                │
│         RECORDER   XXXXXXXX                │
│           PLAYER   XXXXXXXX                │
│          NETWORK   XXXXXXXX                │
│                                            │
│   ┌──────────┐          ┌────┐┌──────┐     │
│   │ UPGRADE  │          │ OK ││CANCEL│     │
│   └──────────┘          └────┘└──────┘     │
└─────────────────────────────────────────┘
```

●**System – Miscellaneous**

```
┌─────────────────────────────────────────┐
│  ┌──┐                                      │
│  │  │   SYSTEM - MISC                      │
│  └──┘                                      │
│                                            │
│   SYSTEM – ID   ┌────────────┐             │
│                 │ 01         │             │
│                 └────────────┘             │
│   KEYBOARD      ┌──────────┐ ┌─┐           │
│                 │ NONE     │ │+│           │
│                 └──────────┘ └─┘           │
│   KEY-TONE      ┌──────────┐ ┌─┐           │
│                 │ ON       │ │+│           │
│                 └──────────┘ └─┘           │
│   AUDIO         ┌──────────┐ ┌─┐           │
│                 │ MUTE     │ │+│           │
│                 └──────────┘ └─┘           │
│                                            │
│                         ┌────┐┌──────┐     │
│                         │ OK ││CANCEL│     │
│                         └────┘└──────┘     │
└─────────────────────────────────────────┘
```
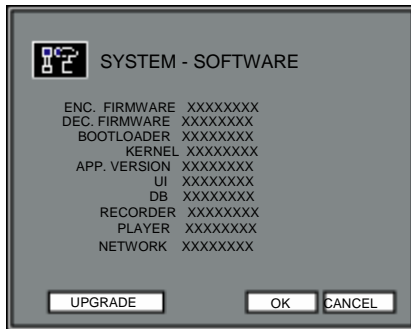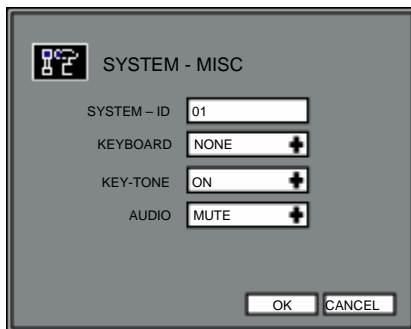
✓ Remote-controller ID – input remote controller ID.
✓ KEYBOARD – control the system using keyboard contoller.
✓ Key-tone – set buzzer sound on/off for pressing button.
✓ Audio – set audio output on/off.

●**System – System shutdown**

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

Chapter 5 ⊙ *Firmware Upgrade*

> **NOTE** : There are two ways to upgrade firmsare.
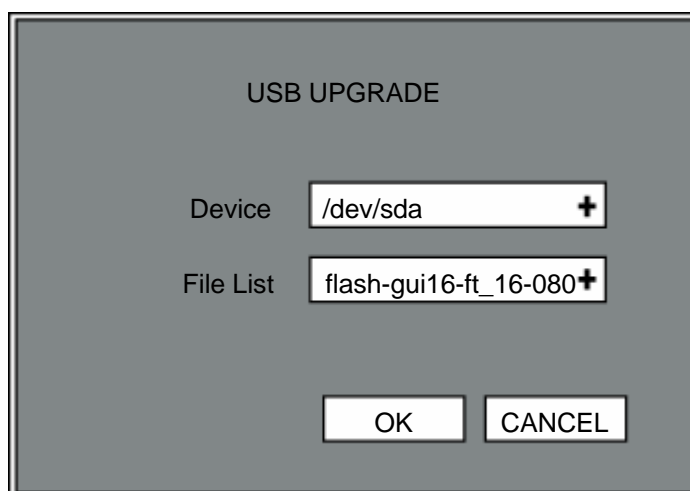>   (1) USB upgrade – upgrade system using USB memory stick.
>   (2) NETWORK upgrade – upgrade system by internet connection.

USB upgrade

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

> NOTE : firmware file should be saved in rout directory.

(2) Connect USB memory stick to system USB port.

(3) Press 'Menu' button and move to the next software.
   [menu   system   software]

(4) You will see a new box if you select 'Upgrade'

(5) You will see menu like below if you select 'USB upgrade'.

```
                    USB UPGRADE


        Device      /dev/sda              +

        File List   flash-gui16-ft_16-080 +



                         OK     CANCEL
```

(6) Device – select USB device with firmware file.

(7) File list – select the right firmware file.

(8) Select 'OK'. System automatically upgrades. System will reboot after upgrade is completed.
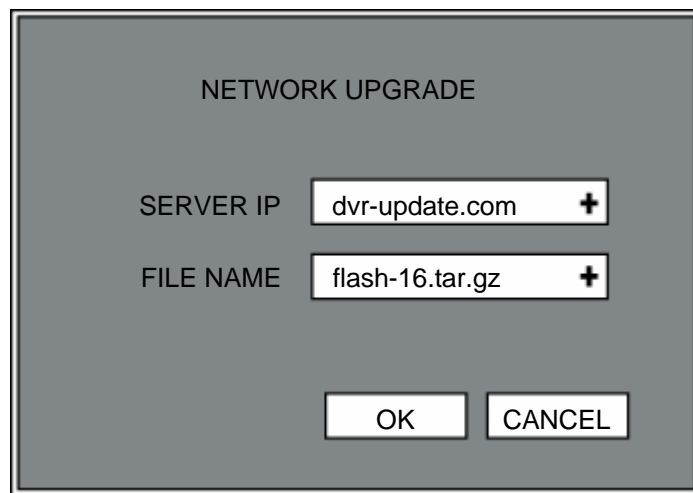
Network upgrade

● **Network upgrade**

(1) Press 'Menu' button and move to the next software.
   [Menu ➡ system ➡ software]

(2) You will see a new box if you select 'Upgrade'.

(3) Select 'Network upgrade'.

```
                    NETWORK UPGRADE


        SERVER IP     | dvr-update.com    + |

        FILE NAME     | flash-16.tar.gz   + |


                        |  OK  |   | CANCEL |
```

(4) Select 'Server IP' with firmware file and file name. then select 'OK'.
(5) You can manually input server IP and file name if the system appointed server IP and file name is different.

(6) System will automatically reboot after upgrade is completed.

Chapter 6 🌀 *Warranty*

WARRANTY

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

1) improper installation

2) acts of nature

3) Accident

4) misuse,

5) lack of proper maintenance

6) voltage fluctuations

7) unauthorized repairs or modifications.

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

LIMITATION OF WARRANTIES AND LIABILITY :

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

1) Merchantable quality

2) Merchant ability or fitness for a particular purpose

3) Those arising by law, statue, usage of trade or course of dealing.

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

Standalone DVR/GUI
USER MANUAL