



## **SVR Series**

Veilux H.264 Digital Video Recorder

Website: [www.veilux.net](http://www.veilux.net)

Phone # 1-800-510-6528

# **VEILUX USER'S MANUAL**

SVR Series

Release Version

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## Appendix 1. Menu tree

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# Chapter 1. Installation

## ***Contents of the box***

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The following parts are included in the box.

- |                          |                                    |
|--------------------------|------------------------------------|
| ▪ Digital Video Recorder | 1 unit                             |
| ▪ CD (Manual & Program)  | 1 piece                            |
| ▪ Remote Controller      | 1 unit (Including AAA battery x 2) |
| ▪ AC/DC adapter          | 1 piece (12V/5A, 110Vac/220Vac)    |
| ▪ AC power cord          | 1 piece (220V or 110V)             |
| ▪ Screws                 |                                    |
| - HDD screw              | 2 kits / 8 pieces (#6-32)          |
| - DVD-R/W screws         | 1 kit / 4 pieces (M3x6)            |

## ***Choosing a location for installation***

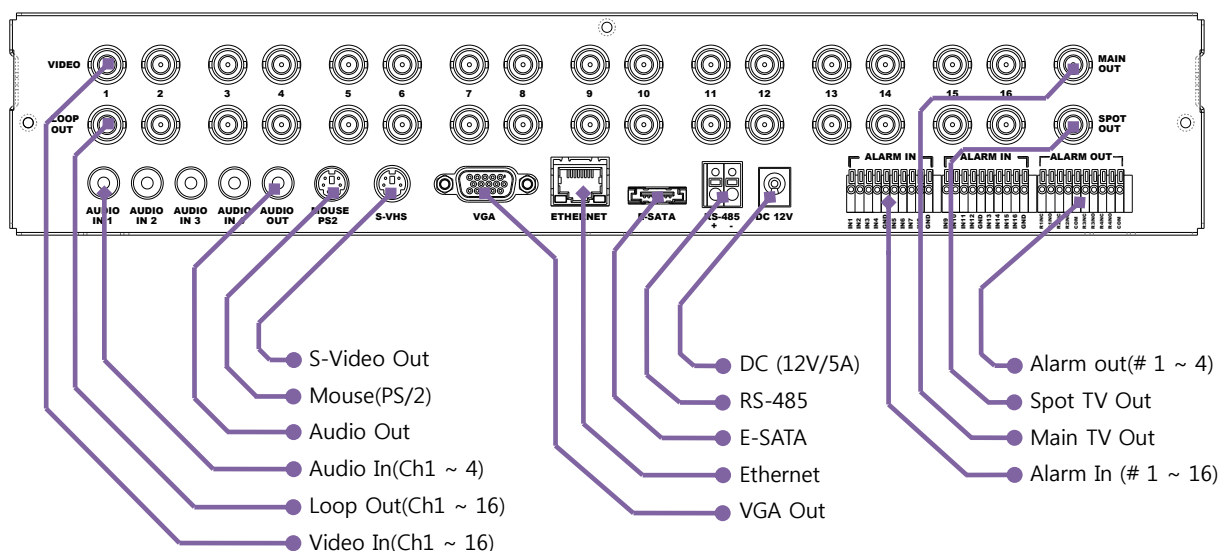
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The unit is designed for desk mount. The following precautions must be taken during installation.

- Openings in the case are ventilation purpose. To prevent overheating, these ventilation holes should not be blocked or covered.
- Ensure there is 2" gap on either side of the unit.
- When stacking units, ensure there is at least 1" gap between each unit.
- Ensure the unit is not located in an area where it is likely to be subjected to mechanical shocks.
- The unit should be located in an area with low humidity and a minimum of dust.
- If the unit is to be installed in a closed assembly, the maximum operating temperature  
Must not exceed 104°F(40°C)
- Ensure there is reliable earthing of the mains outlet when fitted to supply connections, other than direct connection, to the branch circuit.
- It is recommended that an uninterruptable power source be connected to the unit in case of power failure, to ensure continuous operation of the unit.

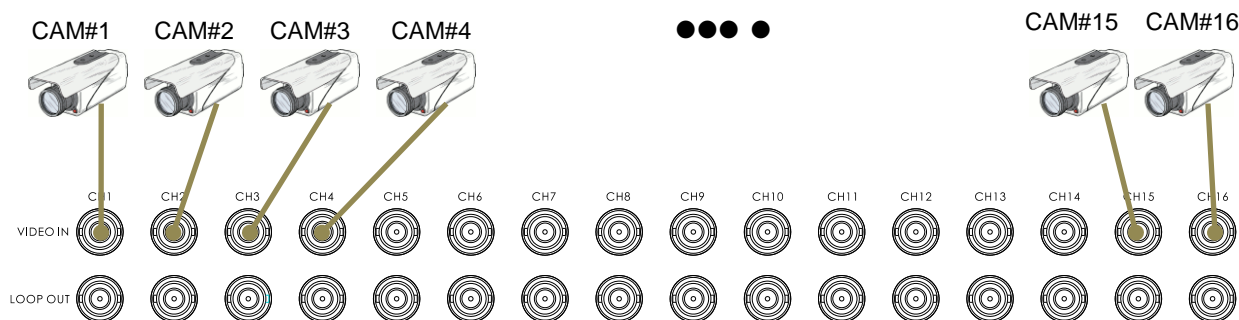
# Installation

## ❖ Rear panel layout

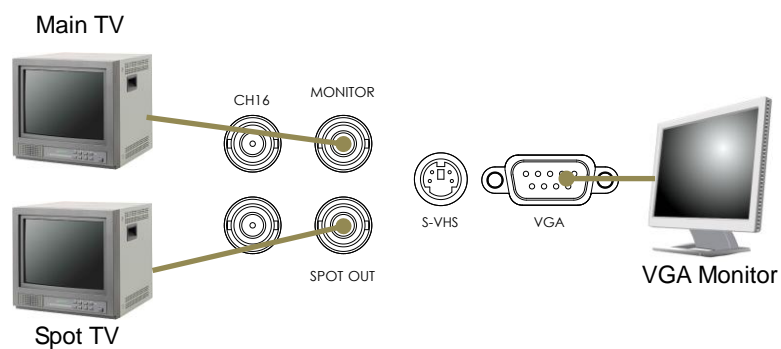


## ❖ Basic connections

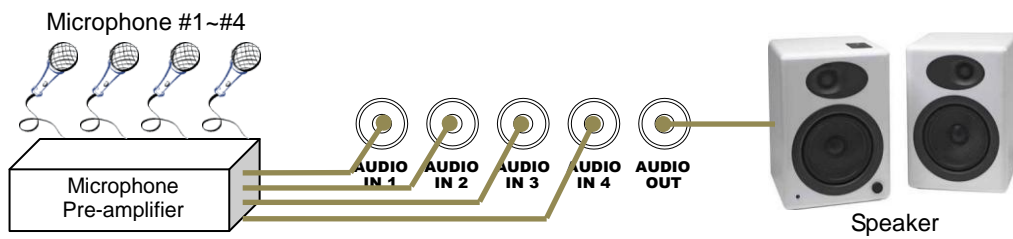
### 1. Connect Cameras



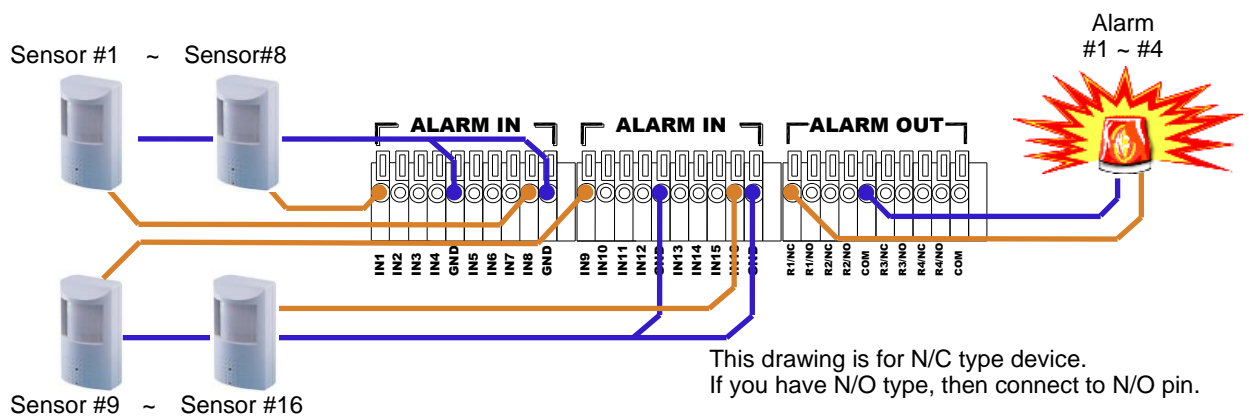
### 2. Connect display devices



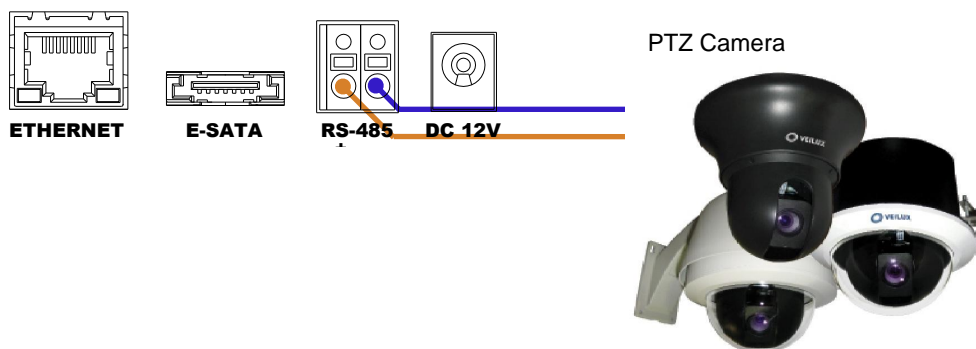
## ❖ Connect audio devices



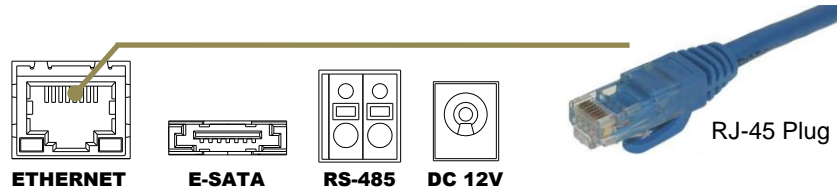
## ❖ Connect alarms



## ❖ Connect RS-485 PTZ camera (optional)



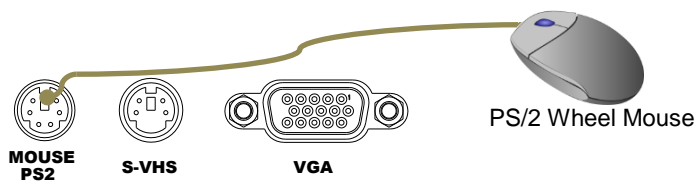
## ❖ Connect to network



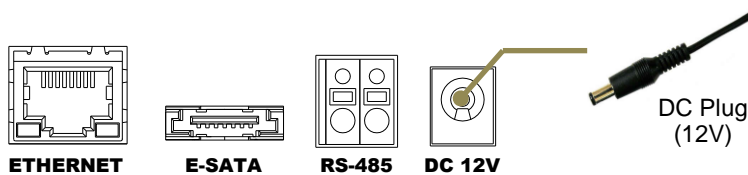
## ❖ Connect a mouse (optional)

The unit support hot plug-in & play.

So, you can attach the mouse later, during system is running.



## ❖ Connect power





# ***Time adjustment***

---

TIME STAMP IS A VERY IMPORTANT REFERENCE FOR RECORDING AND SEARCHING. PLEASE, SET CLOCK CORRECTLY AFTER READ THIS SECTION.

## **Step 1. Set GMT/Location**

Since DST rule is different location by location, you must set your correct location.

Please, set correct GMT/Location in Admin::DateTime menu.

- ◆ Refer to “Daylight Saving Time” section in Chapter 2.
- ◆ Refer to “Admin::DateTime” menu in Chapter 5.

## **Step 2. Initial time synchronization in Admin menu (Optional)**

If the unit can access network time server, it is recommended strongly to synchronize the time with the network time server before start, in Service menu.

Because, if the time difference is big, then time synchronization is failed in recording mode.

You can do this job in Admin::DateTime menu.

- ◆ Refer to Admin::DateTime menu in Chapter 5.

## **Step 3. Time adjustment**

If you can't do step 2., the you need to adjust the time by your hand.

- ◆ Refer to Admin::DateTime menu in Chapter 5.

## **Step 4. Periodical time synchronization (Optional)**

You can configure the unit to synchronize the time periodically with network time server.

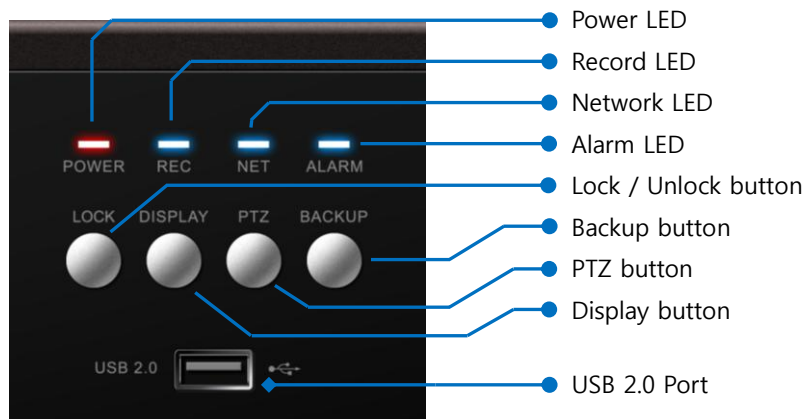
- ◆ Refer to System::TimeSync. menu in Chapter 4.

# Chapter 2. Pre-acknowledgement

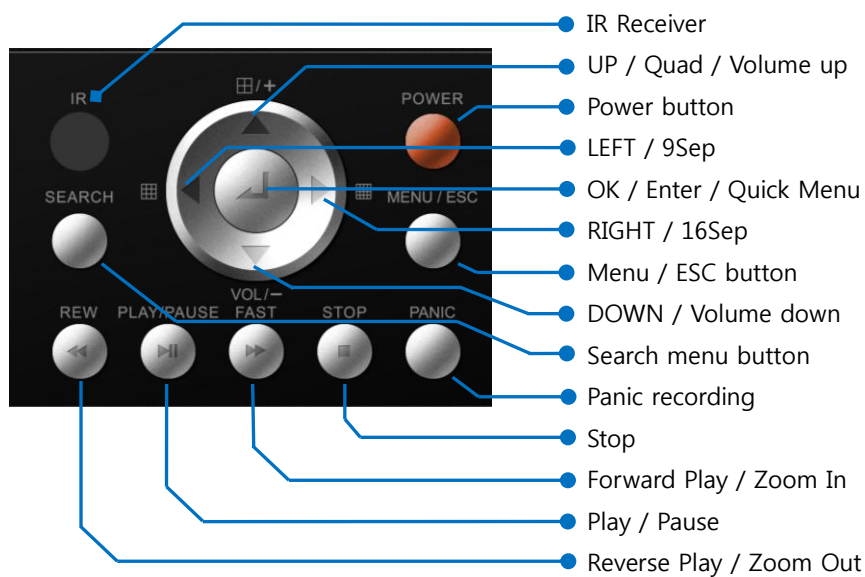
## Front Panel



Group A

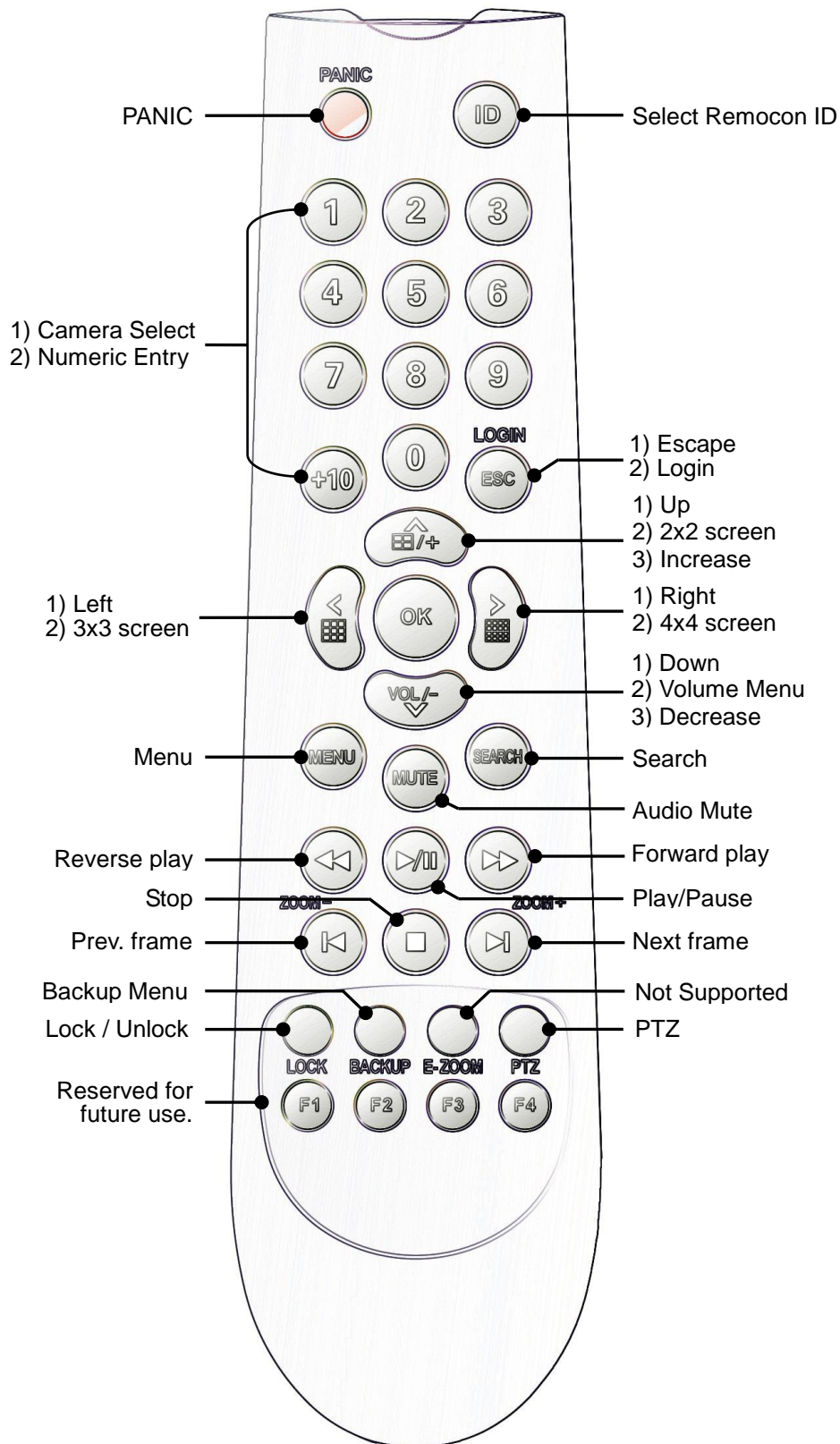


Group B



# Infrared remote controller

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## Multiple unit with single remote controller

You can control multiple unit using single remote controller.

Each unit has its own Remocon ID, you can change/verify it in System::Info menu.

Ensure that each unit has different Remocon ID.

Please, follow below procedure to set a target unit among multiple unit.

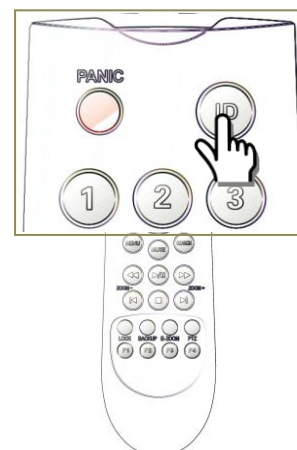
Step 1. Press ID button in remote controller.

If the unit in live view mode, “Remocon ID” message box will be shown.

Step 2. Press two digit of the target unit’s Remocon ID.

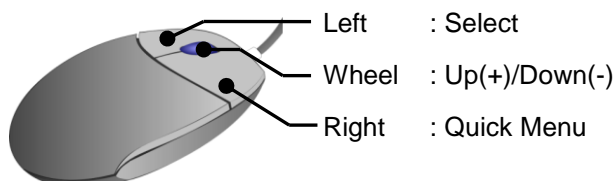
Pressed digit will be shown in “Remocon ID” message box.

If you want to cancel the job, press ESC button.



## Mouse operations

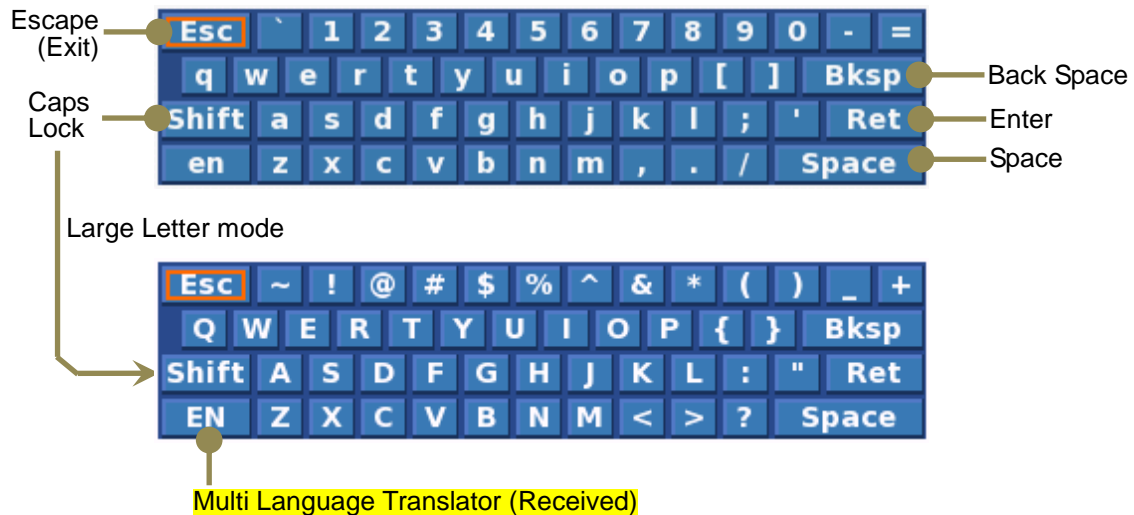
The unit support PS/2 wheel mouse, and hot-plug and play is supported.



- Note
1. Mouse is not supplied as a accessory.
  2. Support wheel mouse only.
  3. Double click does not supported.

# Virtual keyboard

In some menus, virtual keyboard served for text entry.



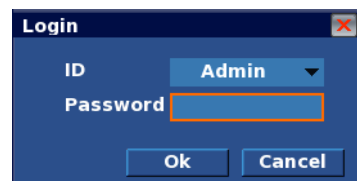
## Login



**TIP**

Default password for all account is “11111111” (eight digit of ‘1’).

When you try to access some function, the unit will shows a login window, and you have to login with proper permission to access the unit.



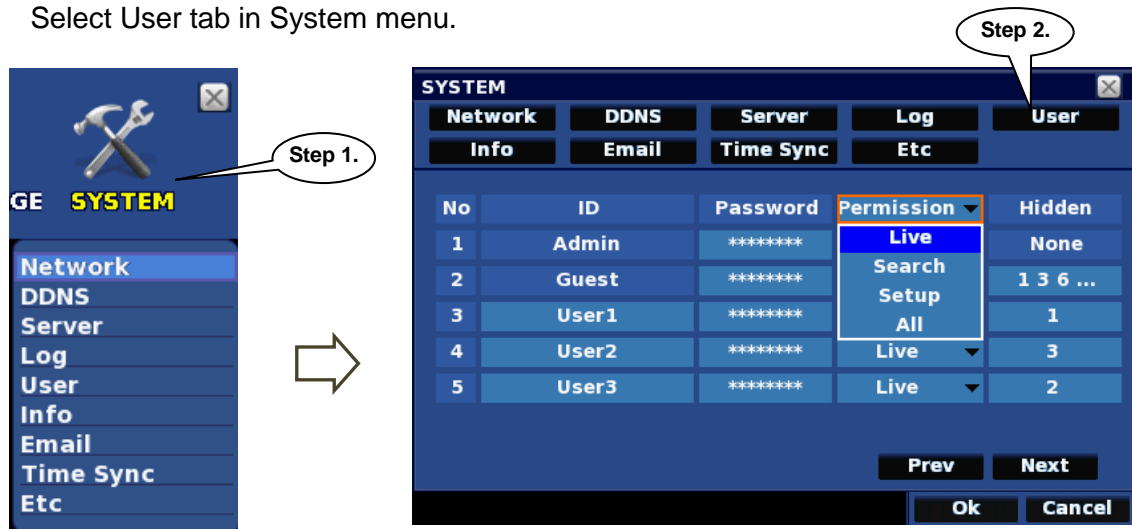
# User management

---

## Entering to User menu

Step 1. Press Menu button, and select System menu.

Step 2. Select User tab in System menu.



## ID

You can rename from User1 to User15 using virtual keyboard, other ID are pre-fixed.

## Password

You can change the password, mind that you must delete old password using backspace key of the virtual keyboard. 1 ~ 8 digits are possible as a password.

## Permission

4 permission levels are available from User1 to User18, other user's permissions are pre-fixed.

- Live : Right for live view only.
- Search : Right for live view and Search.
- Setup : Right for live view and Setup.
- All : Right for live view, Search and Setup.

## Hidden

Administrator can assign different right to live view for each user.

In other words, all user could be assigned different "Hidden Camera" settings.

# Daylight Saving Time (DST)

---

The unit is embedding world DST rules, and it always enabled.



## **DST vs. Location**

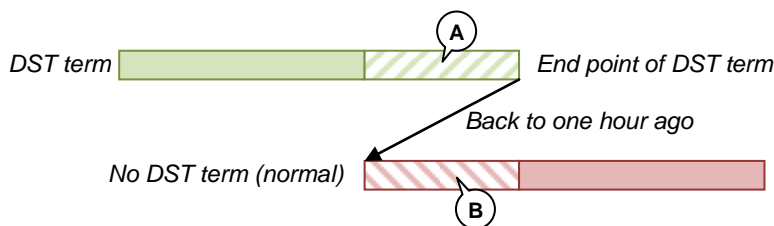
DST rule is totally depends on your location.

Please, set correct GMT/Location in “Service::DateTime” menu.

“Service::DateTime” means DateTime menu in Service menu.

## **Effects of daylight**

Time returns to one hour ago at the end of DST, this means one hour recording data has same time stamp. The overlapped zone (B) could be handled optionally. Refer to each menu descriptions in Chaptr 3. and Cpater 4..



- Playback : The unit playback zone (A) and zone (B) both continuously.
- Calendar Search : You can address exact time point in zone (B).
- Event Search : You can limit search range to zone (B).
- Backup : You can limit backup range to zone (B).

## **Updating DST rule**

Once your location's DST rule is changed, then you need to upgrade firmware. Otherwise, last DST rule or no rule will be applied.

If you can not upgrade firmware, we recommend to do followings;

- Backup : Do backup prior to adjust system clock backward.  
Otherwise, the overlapped data (zone (B)) will be destroyed.
- Clock adjustment : Adjust system clock in Service::DateTime menu.

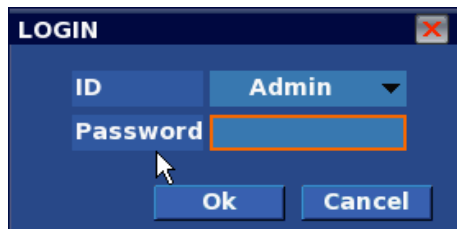
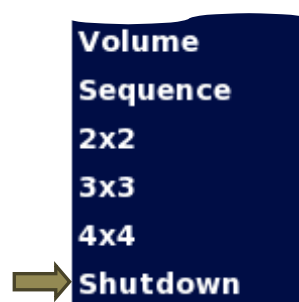
# ***Shutdown (Auto power off)***

---

Since the HDD contents could be damaged when HDD power is removed during access the HDD, it is strongly recommended to follow shutdown procedures.

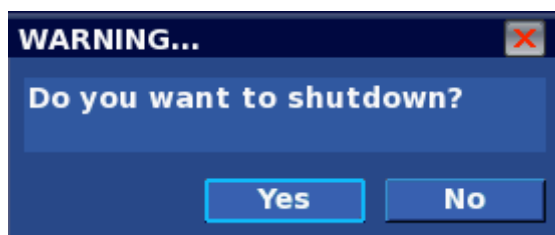
## **Step 1. Shutdown in menu**

The unit prepares to shutdown when you choose  
Shutdown in Quick menu.  
Then appear login message box.  
Enter 'Admin' password.



## **Step 2. Auto power off**

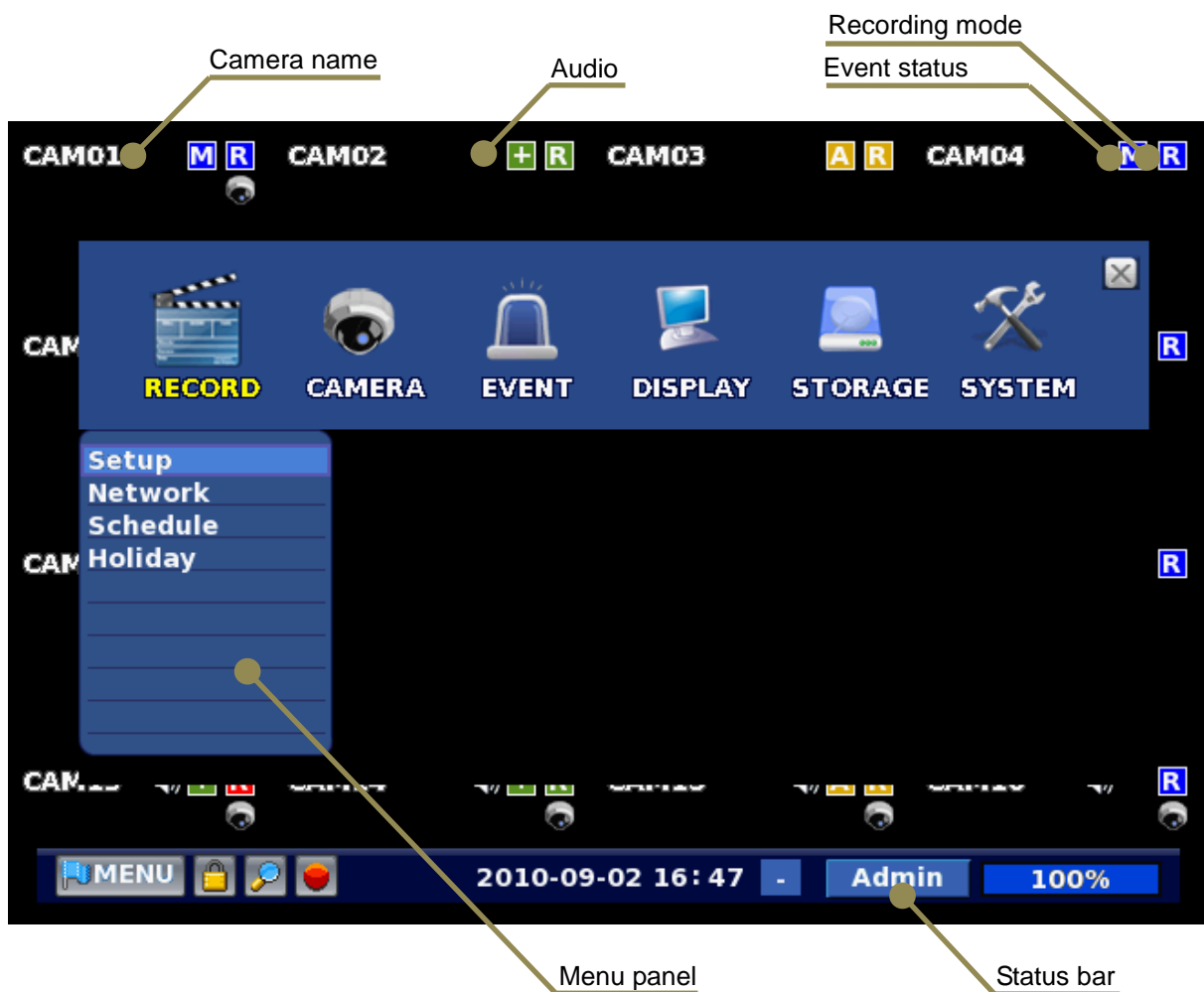
The following appears "Do you want a shutdown?" message.  
If you choose "Yes" then system is powered down





# Chapter 3. Operation


## View panel



### ❖ Camera pane



You can show/hide the below items in Display::Screen menu.

1. Camera name **CAM01**  
It shows camera name which is configured in Camera::Setup menu.
2. Audio   
It is shown when you enable the audio function in Camera::Setup menu.

### 3. Recording mode

It shows recording mode which is configured in Record:Schedule menu.

 Normal mode

 Motion mode

 Alarm mode

 Alarm + Motion mode


### 4. Event status

It shows when some event was detected and recording is started.

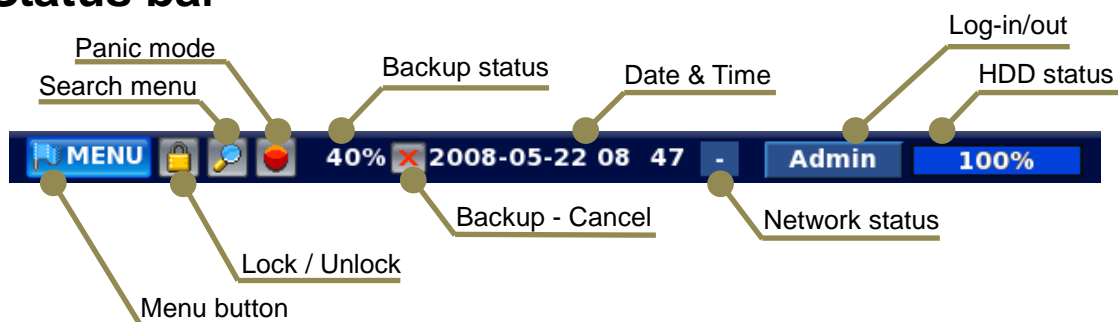
There is no status in Normal mode.

 Motion event

 Alarm event

 Motion and Alarm event (Both events are detected at same time)

## ❖ Status bar



#### 1. Menu button



Click this button to access Menu panel.

#### 2. Lock/Unlock

Click this button to Lock/Unlock mouse and front panel button operations.

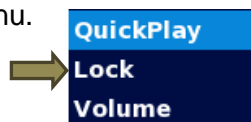


Locked



Unlocked

Also, you able to locked through Quick menu.



#### 3. Search Menu



Click this button to enter into Search menu.

#### 4. Panic mode

Start to record immediately at any condition when press this button.

Login is required to stop Panic mode.



Panic mode



Normal mode

5. Backup status 

It indicates that backup is in progress and its progressive rate in percentage.

6. Date & Time 

It shows current date & time in “YYYY-MM-DD HH:MM” format.




Atomic clock available through public network time server on internet.

See System::Time Sync. Menu in chapter 4. to use atomic clock.

7. Network status 

It shows count of network connection such as Web viewer and CMS.

“-“ means that network is disconnected.

8. Log-in/out 

It has two functions as below.

- 1) Log-in/out button

Click to log-in(or log-out) to(from) the unit.

- 2) User information

It shows log-in user name.

See System::User menu in Chapter 4. for user management.



### ***Auto-hiding of status bar & Playback control bar***

In the auto-hide mode, the status bar and playback control bar are shown/hidden automatically. You can change the mode in Display::Screen menu.

- 1) Shown

- When move mouse pointer to bottom area of the screen.
- When press Menu button in front panel or remote controller.

- 2) Hidden

It is hidden when above “Shown” condition is removed, and Show time is passed.

# ***Panic mode (emergency recording)***

---

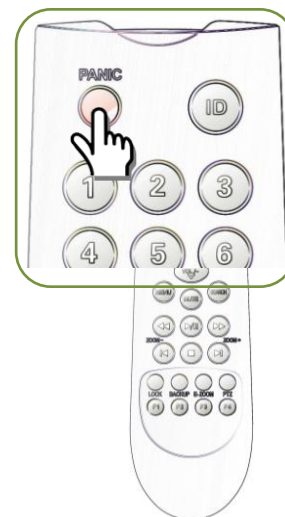
The unit support Panic mode for instant recording in emergency situation.

You can start Panic mode whenever you want.

For stopping Panic mode, you need to log-in with "Setup" permission account.

## 1. Start Panic mode with front panel & remote controller

Press PANIC button.



## 2. Start Panic mode with mouse

Click PANIC icon.



# Live Monitoring

---

## ❖ Single-screen display

You can watch a single camera in full screen mode.

1. Front panel 'DISPLAY' button when you click the continue button camera number increases in full screen mode.

Remote controller Press a number button you want to watch.



### ***Select a channel over than 10***

Follow below procedures to select form ch11 to ch16.

Step 1) Press "+10" button.

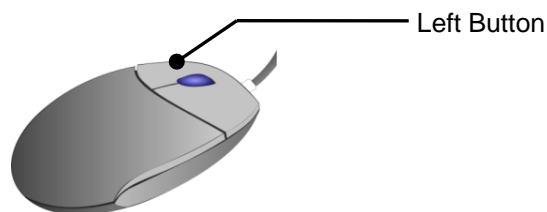
Step 2) Press "1".

In this case channel 11 will be selected.

2. Mouse

Step 1) Move pointer to a pane you want to watch in single screen.

Step 2) Click Left button.

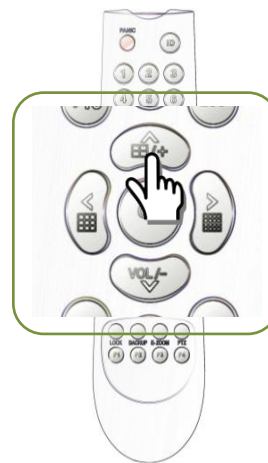
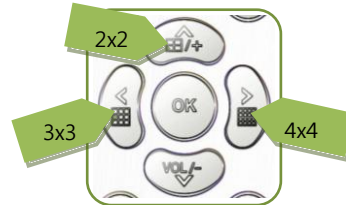


## ❖ Multi screen display

The unit support multi screen display mode such as 2x2, 3x3 and 4x4 divisions.

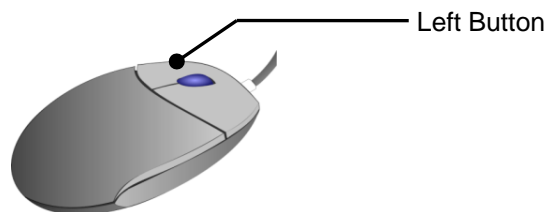
### 1. Front panel & Remote controller

- 2x2 division : Press Up button
- 3x3 division : Press Left button
- 4x4 division : Press Right button



### 2. Mouse

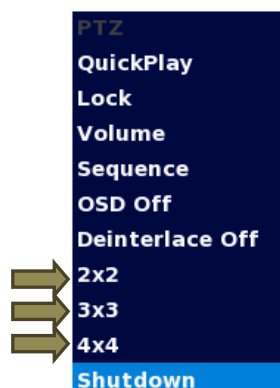
Click Left button at any location on the screen.



### 2. Quick menu

Click Right button at appear the quick menu. One more click it same division that change the next screen.

- 2x2 division : Click 2x2
- 3x3 division : Click 3x3
- 4x4 division : Click 4x4



## ❖ Audio volume control

There are two ways to control audio volume and muting.



### 1. Using Volume button

Press “VOL.” button, then Volume control menu will be shown.

- Volume up : Press Up(+) button
- Volume down : Press Down(-) button
- Mute : Move focus to “Mute” using Left/Right buttons, and press OK button.

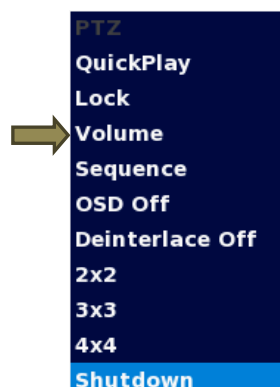


### 2. Using Quick Menu

1) Click mouse Right button at any location, then Quick menu appears.

2) Press “OK” button in front panel or remote controller, then Quick menu appears.

Select Volume menu and press “OK” or click Left button of the mouse, then Volume control menu appears.



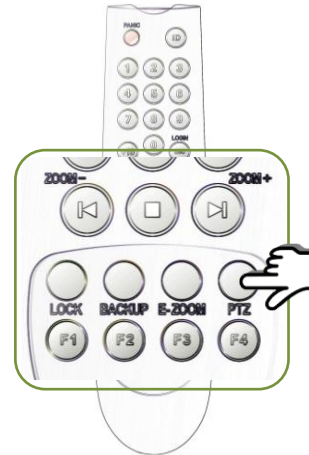
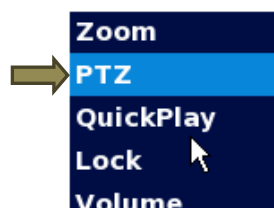
## ❖ PTZ (Pan / Tilt / Zoom) (Single screen mode only)

This facility works in following conditions;

- PTZ camera is connected to the desired channel.
- Model and Setting are correct in Camera::PTZ menu.
- RS-485 bus is working properly.

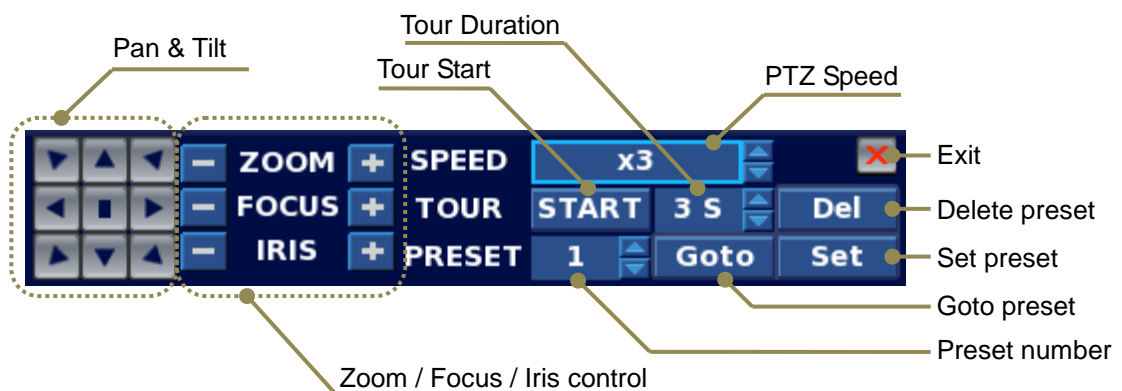
### 1. Entering into PTZ mode

- 1.1 Press PTZ button in remote controller.
- 1.2 Use Quick menu.



### 2. PTZ control panels

#### 2.1 On screen control panel (GUI)



#### 2.2 Key board control(Optional)



### 3. Pan & Tilt

It is same manner you use GUI or remote controller.

- Choose a desired direction button you want to move.
- To stop moving, press Stop button.



### 4. Preset

#### 4.1 Set a new preset point

Step 1) Move to a desired point you want to store as a preset using direction buttons.

Step 2) Assign an any preset number.

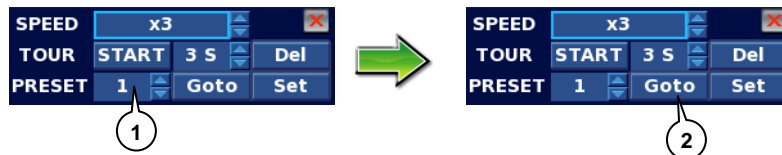
Step 3) Press "Set" button.



#### 4.2 View a preset point

Step 1) Choose an any preset number you want to watch.

Step 2) Press "Goto" button.



#### 4.3 Delete a preset point

Step 1) Choose an any preset number you want to delete.

Step 2) Press "Del" button.



# Search & Playback

Two playback tools are served as below;

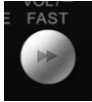





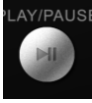


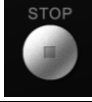






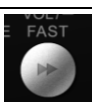


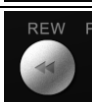


- 1) Quick Play : Instant playback in live mode, start from 10 minutes ago.
- 2) Search menu

There are two search options;

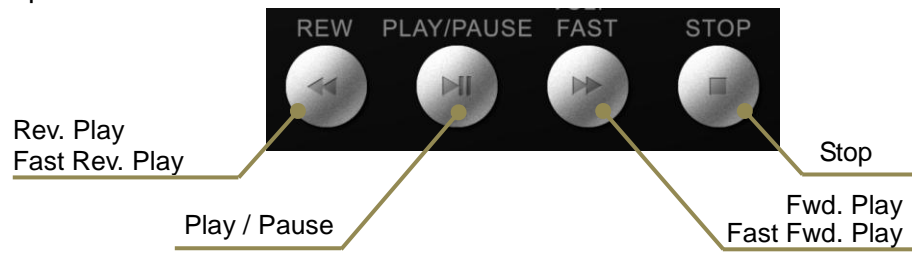
- Calendar search : Specific date & time is used as a playback start point.
- Event Search : Motion or alarm event point is used as a playback start point.

## ❖ Playback Control

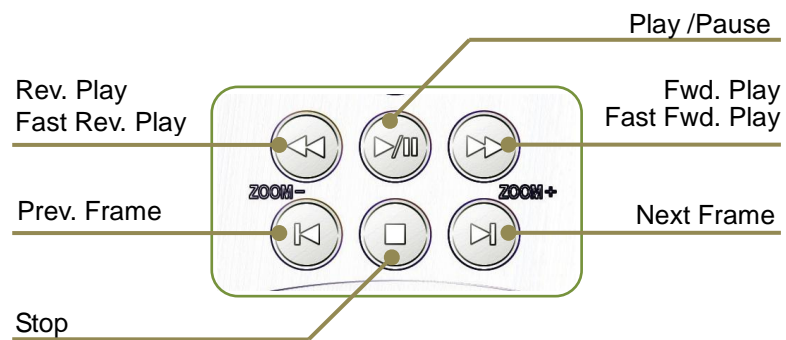
You can control playback using 3 control tools Front panel, Remote controller and GUI.

| Function       | Front Panel   | Remote Controller   | GUI (Mouse)   | Remark   |
|----------------|---|---|---|--|
| Fwd. Play      |  |  |  | Quick play   |
| Rev. Play      |  |  |  |  |
| Pause          |  |  |  | Keep playback speed.   |
| Stop           |  |  |  | Playback speed returns to x1.                                    |
| Next Frame     | -   |  |  | Playback frame by frame.   |
| Prev. Frame    | -   |  |  |  |
| Fast Fwd. Play |  |  |  | Playback speed is changed from x1 to x64 when press play button. |
| Fast Rev. Play |  |  |  |  |

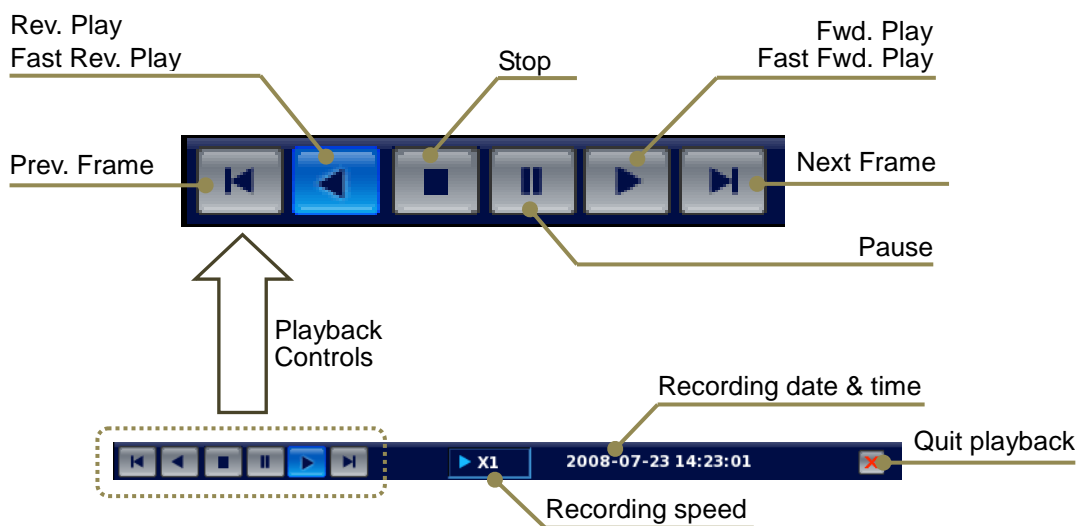
### 1. Front panel



### 2. Remote Controller



### 3. GUI

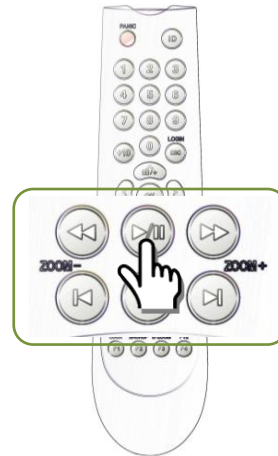


## ❖ Quick play

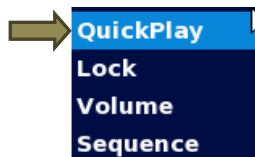
Quick play offers convenient playback in live view mode, it starts to play from 10 minutes ago.

Press Q-PLAY button in front panel or remote controller.

The unit is switched into playback mode immediately with “QuickPlay” pop-up message box.



Choose “QuickPlay” in Quick menu.

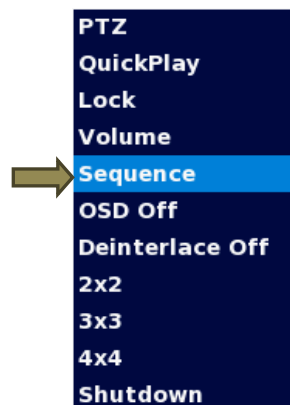


## ❖ Sequence & screen separate

Sequence offers rotation screen by single screen mode, 2by2 screen mode or 3by3 screen mode. If you want changed duration time where the setting duration time in display menu.

Click the sequence will appear “Seq” icon on right top by live screen.

More clicked the sequence will disappear “Seq” icon and rotation stop.

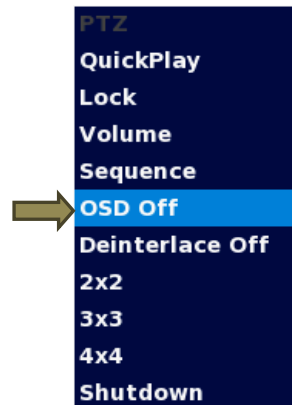


## ❖ OSD On/Off

OSD Off offers the onscreen OSD is all disappear.

Then OSD Off item changed OSD on.

When you click the OSD On the OSD is appear.

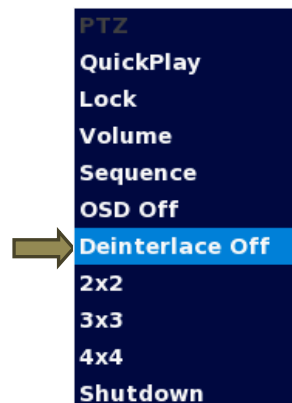


## ❖ Deinterlace On/Off

Deinterlace Off offers the Deinterlace mode off.

Then Deinterlace Off item changed Deinterlace On.

When you click the “Deinterlace On” the Deinterlace mode on.

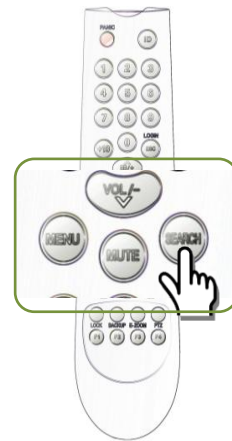


- Blank -

## ❖ Entering to search menu

### 1. Front panel & Remote controller

Press SEARCH button in front panel or remote controller, then a menu panel will be shown.



### 2. GUI (Mouse)

Click Search icon in the status bar.



## ❖ Calendar Search

Calendar search mode is a default mode.

If you are in Event mode, then choose "Calendar" tab to switch to Calendar mode.

### Step 1. Choosing a date

You can choose one of red colored date.

Black colored date has no recording data.

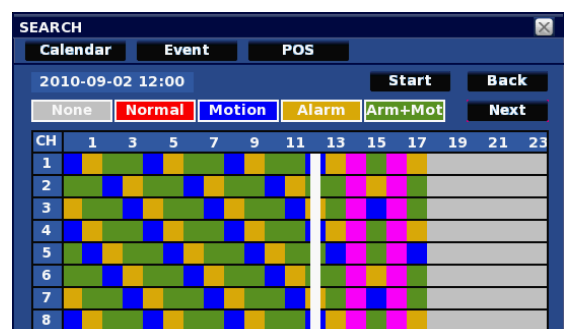


### Step 2. Choosing a hour

Recording map will be shown in a hour unit.

The color on the map is indicating recording mode as below.

- Red : Normal Recording
- Blue : Motion event

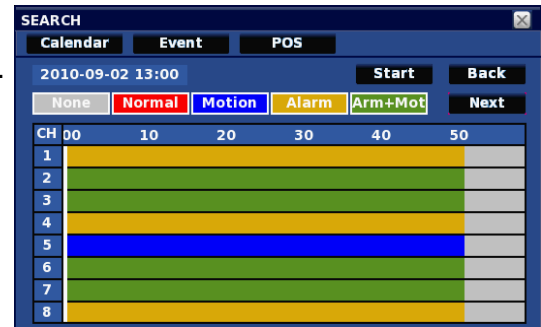


- Yellow : Alarm in event
- Green : Two events at same time - Alarm in event & Motion event

You can start to playback by pressing “Start” button or back to step 1. By pressing “Back”. For choosing a minute, press “OK” in the recording map.

### Step 3. Choosing a minute & Play

Recording map will be shown in a minute unit.  
You can start to playback by pressing “Start” button or back to step 1. By pressing “Back”.  
Pressing “OK” in the recording map also start to play.




### Step 4. Playback Control & Return to search menu

- See “Playback Control” section above for playback control.



- Return to search menu

There are two ways to return to search menu from playback mode.

- 1) Press “ESC” in front panel or remote controller
- 2) Click  icon on playback control bar to quit playback mode.



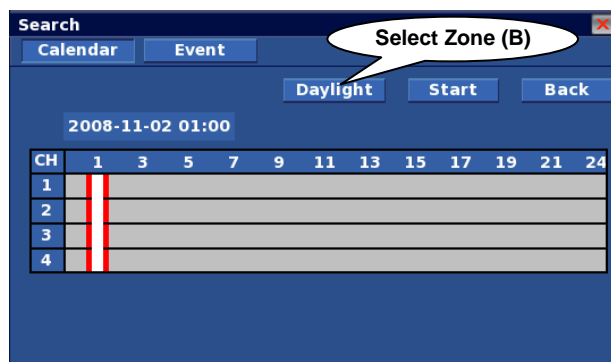
### **Daylight in calendar search mode**

Please, read “Daylight Saving Time(DST)” section first.

Daylight button will be shown if the selected date is including zone (A) and (B).

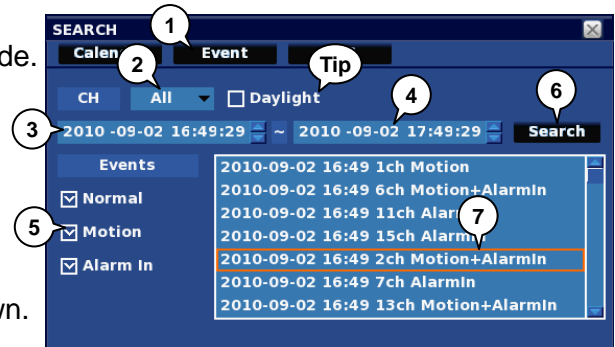
This button is useful when addressing start point in Zone(B).

The recording map will be updated when you press Daylight button.



## ❖ Event Search

- Step 1. Select "Event" if you are in Calendar mode.
- Step 2. Select desired channel to search.
- Step 3. Set start date & time to search.
- Step 4. Set stop date & time to search.
- Step 5. Check event type to search.
- Step 6. Click Search, then event list will be shown.
- Step 7. Choose a one of event you want to play.



### ***Daylight in event search mode***

When this option is checked, searches range is limited to zone (B).

At this point, zone (B) must be exist within you selected rage in Step 6 & 7.

- Blank -



# Backup

You can backup recording data to USB storages or built-in optical storage.

## ❖ Backup device

- Built-in CD/DVD (option)
- USB Flash / HDD / CD / DVD (Support USB 2.0 devices only.)

## ❖ Backup file type

- Native DB(Database)

This type is an unique format for video recording.

You can play this format using Backup viewer only.

Native DB does not support individual channel backup.

- AVI

This type is a industrial standard AVI file.

Refer that some media player does not support H.264 AVI file.

It is recommended to use MPlayer for audio playback.

- MPlayer : Visit <http://www.mplayerhq.hu> to download.

Try GOM player if you need other free player, but it does not support audio decoding.

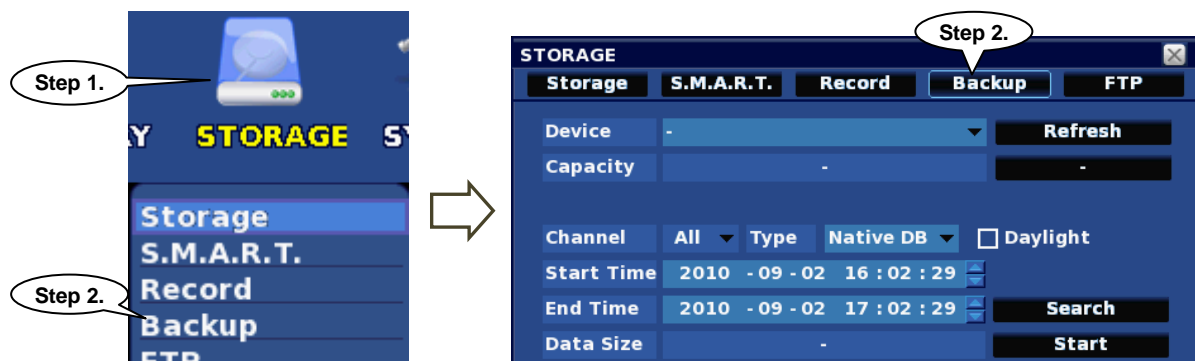
- GOM Player : Visit <http://www.gomlab.com/eng/> to download.

It supports English, Chinese, Japanese and Korean.

## ❖ Entering to backup menu

Step 1. Press Menu button, and select Storage menu.

Step 2. Select Backup tab in Storage menu or select Backup in storage list menu.



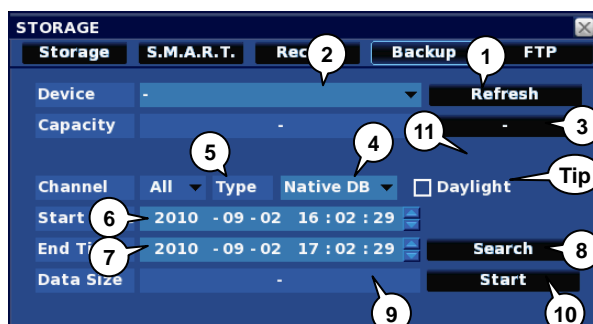
## ❖ Backup

Step 1. Try “Refresh” if the backup storage is not shown in the Device list.

Step 2. Choose a backup device in the list.

Available capacity will be shown.

“Total:4.5 GB(8 MB)” means that Total media capacity is 4.5GB, and remained capacity is 8MB.



Step 3. In the case of CD-RW or DVD-RW,

Erase button will be enabled.

You can erase the media using this button.

Step 4. Choose a backup file type between

“Native DB” and “AVI”.

Step 5. In the case of AVI type, you can select specific channel to backup.

Step 6 & 7. Set start/End date & time to backup.

Step 8. Click Search button to search available backup data.

Step 9. Total backup file size is shown in this column.

Step 10. Click “Start” to start to backup.

Step 11. Click “Open” to CD-RW or DVD-RW tray open.

Step 12. Choose a backup mode between background mode and normal.

Note that the backup time is same between two backup mode.

- Choose YES for background mode.

Then, the unit returns to live view mode, and backup will be started.

In this mode, backup status is shown in Status bar.

Backup status in background backup mode



- Choose NO to start to backup immediately.

CD or DVD were choosed, then “Burning...” message will be shown.

Otherwise, “Writing...” message will be shown.



[ CD/DVD ]



[ Other storage ]



### **Daylight in backup**

When this option is checked, the unit searches recording data in zone (B).

At this point, zone (B) must be exist within you selected rage in Step 6 & 7.

# Chapter 4. Configuration

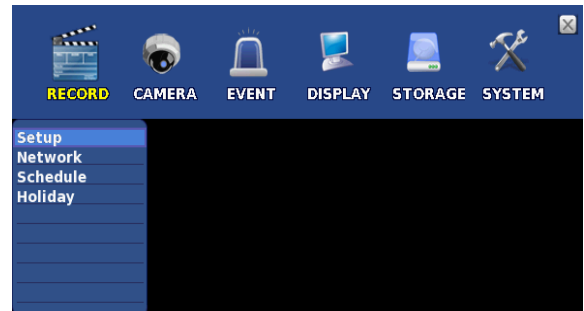
Press or click Menu button in front panel or status bar to open menu panel.



## **TIP** Menu naming rule

For example, “Record :: Setup” is indicating Setup menu in Record menu.

(Record menu is a root menu, and Setup menu is a sub-menu)



## ❖ Summary

- Record
  - Image size settings / Frame rate settings / Schedule edit / Holiday settings
- Camera
  - Camera naming / Audio on/Off / Color control
- Event
  - Alarm In & Out settings / Email report settings / Buzzer settings
- Display
  - Camera pane layout control / Status bar control
  - Spot output settings
- Storage
  - Storage view / Formatting / S.M.A.R.T. view / Writing settings / Backup
- System
  - Network & Server settings
  - Log view & save to USB storage
  - User management
  - View DVR information : Remocon ID, F/W & Kernel version, MAC address
  - Gateway to Service menu
  - Time synchronization
  - Email settings

# Record Settings

## ❖ Record :: Setup

### Size

Move to Size column, and press OK,  
then available image size will be shown.  
Note that all channels are using same  
image size.

- NTSC : 704x480(D1) / 704x240(HD1) / 352x240(CIF)
- PAL : 704x576(D1) / 704x288(HD1) / 352x288(CIF)

The screenshot shows the 'RECORD' window with the 'Setup' tab selected. It displays a table for configuring 8 channels. The table has columns for Ch, Size, Fps, Quality, Pre, and Post. All channels are currently set to 704x480 resolution, 30 FPS, Best quality, and None for Pre and Post alarm durations. There are also checkboxes for AlarmIn, Motion, and Panic, and a 'Free FPS:0.00' indicator at the bottom.

| Type | Normal  | AlarmIn | Motion  | Panic |      |
|------|---------|---------|---------|-------|------|
| Ch   | Size    | Fps     | Quality | Pre   | Post |
| 1    | 704x480 | 30      | Best    | None  | None |
| 2    | 704x480 | 15      | High    | None  | None |
| 3    | 704x480 | 7.5     | Medium  | None  | None |
| 4    | 704x480 | 3.75    | Low     | None  | None |
| 5    | 704x480 | 1.88    | Lowest  | None  | None |
| 6    | 704x240 | 30      | Best    | None  | None |
| 7    | 704x240 | 15      | High    | None  | None |
| 8    | 704x240 | 7.5     | Medium  | None  | None |

Free FPS:0.00

Next

Ok Cancel

### fps (recording frame rate)

Available frame rate are listed by image size.

- NTSC : 30 / 15 / 7.5 / 3.75 / 1.88
- PALT : 25 / 12.5 / 6.25 / 3.125



#### **TIP** D1 real time recording

The system which sees supports D1 / 120 frames

You can record D1 size image in real time frame, if you do using 4 channels.

This concept is same in the case of HD1 and CIF.

### Quality

High quality means shorter recording time, because the compression file size is getting bigger and bigger when you choose more good quality. 5 quality levels are available.

- Best / High / Medium / Low / Lowest

### Pre (Pre alarm duration)

Pre alarm duration is fixed as two options : None and 5 seconds.

### Post (post alarm duration)

Six post alarm duration times are available : None / 3 / 5 / 10 / 20 / 30 sec

## ❖ Record :: Network

### Size

Image size is dependent on the record size

| Type | Normal  | AlarmIn | Motion  | Panic |
|------|---------|---------|---------|-------|
| Ch   | Size    | Fps     | Quality |       |
| 1    | 704x480 | 15      | Best    |       |
| 2    | 704x480 | 1.88    | Best    |       |
| 3    | 704x480 | 1.88    | Best    |       |
| 4    | 704x480 | 1.88    | Best    |       |
| 5    | 704x480 | 1.88    | Best    |       |
| 6    | 704x240 | 1.88    | Best    |       |
| 7    | 704x240 | 1.88    | Best    |       |
| 8    | 704x240 | 1.88    | Best    |       |

Free FPS:30.00

Next

Ok Cancel

- NTSC : 704x480(D1) / 704x240(HD1) / 352x240(CIF)
- PAL : 704x576(D1) / 704x288(HD1) / 352x288(CIF)

### Fps (network transmission frame rate)

Available network transmission frame rate are listed by image size.

- NTSC : 30 / 15 / 7.5 / 3.75 / 1.88
- PALT : 25 / 12.5 / 6.25 / 3.125

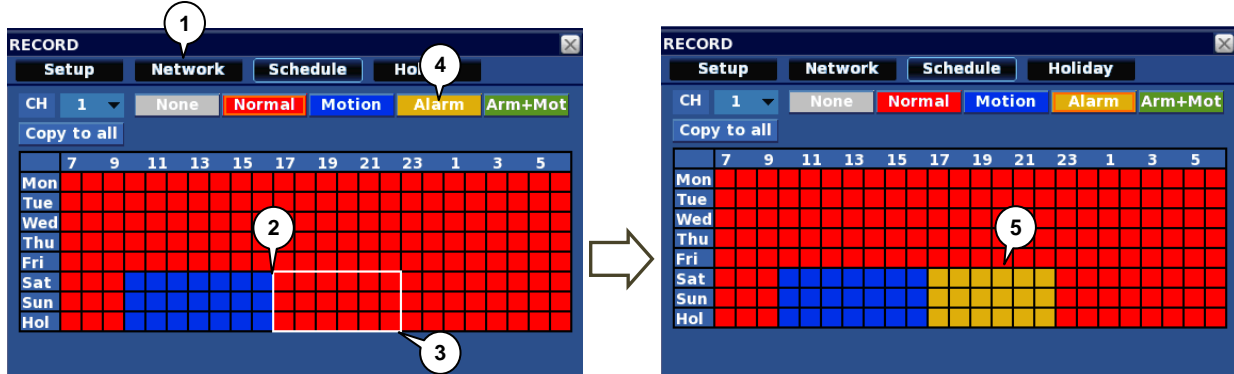
### Quality

High quality means shorter recording time, because the compression file size is getting bigger and bigger when you choose more good quality. 5 quality levels are available.

- Best / High / Medium / Low / Lowest

- Blank -

## ❖ Record :: Schedule



### Recording Mode

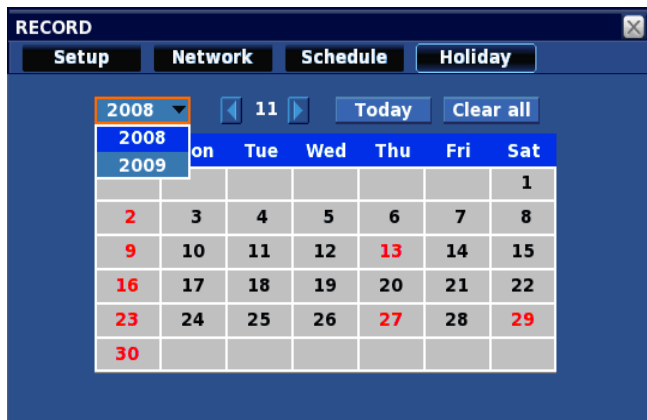
- Normal : Red, Record continuously.
- Motion : Blue, Start recording by motion event.  
See Camera::Motion menu to configure motion event.
- Alarm : Yellow, Start recording by alarm event.  
See Event::Alarm In menu to configure alarm event.
- Alm+Mot : Green, Start recording by motion event or alarm event.

### Scheduling

- Step 1. Select Schedule tab to switch to Schedule menu.
- Step 2. Select start point to assign.  
You can select any day of week, any hour and holiday.  
See Recording::Holiday to assign holiday.
- Step 3. Select stop point.
- Step 4. Select a recording mode.  
(Alarm is select in the example.)
- Step 5. Desired zone is changed into yellow color (alarm mode).

## ❖ Record :: Holiday

You can assign your holidays for 2 years.



### Add a new holiday

Select a date and press OK, the date will be change into red, holiday.

### Delete a holiday

Select a desired holiday and press OK, the holiday will be changed into black, working day.

### Delete all holiday

Press "Clear All" button to delete all holidays of two years assigned by user.

- Blank -

# Camera Settings

## ❖ Camera :: Setup

| CAMERA                    |       |                                     |       |     |     |           |
|---------------------------|-------|-------------------------------------|-------|-----|-----|-----------|
| Setup Motion PTZ Keyboard |       |                                     |       |     |     |           |
| Ch                        | Name  | Enable                              | Audio | Sat | Con | Bri       |
| 1                         | CAM01 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 2                         | CAM02 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 3                         | CAM03 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 4                         | CAM04 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 5                         | CAM05 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 6                         | CAM06 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 7                         | CAM07 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 8                         | CAM08 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
|                           |       |                                     |       |     |     | Next      |
|                           |       |                                     |       |     |     | Ok Cancel |

| CAMERA                    |       |                                     |       |     |     |           |
|---------------------------|-------|-------------------------------------|-------|-----|-----|-----------|
| Setup Motion PTZ Keyboard |       |                                     |       |     |     |           |
| Ch                        | Name  | Enable                              | Audio | Sat | Con | Bri       |
| 1                         | CAM01 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 2                         | CAM02 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 3                         | CAM03 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 4                         | CAM04 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 5                         | CAM05 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 6                         | CAM06 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 7                         | CAM07 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
| 8                         | CAM08 | <input checked="" type="checkbox"/> | None  | 58  | 44  | 50        |
|                           |       |                                     |       |     |     | Next      |
|                           |       |                                     |       |     |     | Ok Cancel |

### Name

You can change the camera name using virtual keyboard.  
Press OK to show virtual keyboard.

### Enable

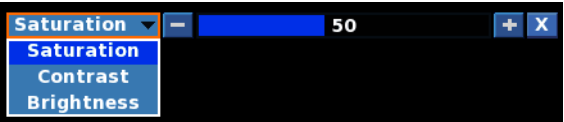
Enable or disabling the channel.  
Note that Ch. 1 should be turned on always.

### Audio

Check this option if you attach a microphone to the channel.

### Sat / Con / Bri

You can adjust color settings using this menu.





## ❖ Camera :: Motion

| Ch | Enable                              | Region | Sensitivity |
|----|-------------------------------------|--------|-------------|
| 1  | <input checked="" type="checkbox"/> | User   | Step 3      |
| 2  | <input checked="" type="checkbox"/> | User   | Step 3      |
| 3  | <input checked="" type="checkbox"/> | User   | Step 3      |
| 4  | <input checked="" type="checkbox"/> | User   | Step 3      |
| 5  | <input checked="" type="checkbox"/> | User   | Step 3      |
| 6  | <input checked="" type="checkbox"/> | User   | Step 3      |
| 7  | <input checked="" type="checkbox"/> | User   | Step 3      |
| 8  | <input checked="" type="checkbox"/> | User   | Step 3      |

### Enable

It enables motion event.

### Region

Motion detection cells are consist of 15x15 cells.

You can enable or disable each cells.

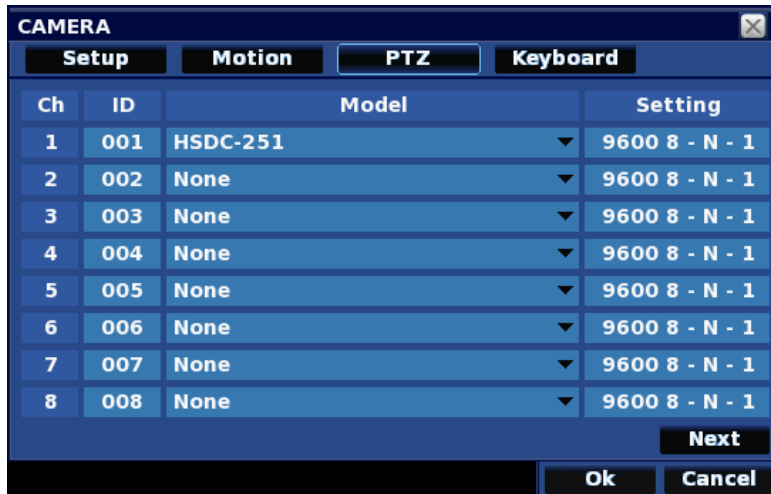
- Full : All cells are enabled.
- User : You can configure each cells.

### Sensitivity

Five levels of motion detection sensitivity available, from step 1 to step 5.

- Blank -

## ❖ Camera :: PTZ



| Ch | ID  | Model    | Setting        |
|----|-----|----------|----------------|
| 1  | 001 | HSDC-251 | 9600 8 - N - 1 |
| 2  | 002 | None     | 9600 8 - N - 1 |
| 3  | 003 | None     | 9600 8 - N - 1 |
| 4  | 004 | None     | 9600 8 - N - 1 |
| 5  | 005 | None     | 9600 8 - N - 1 |
| 6  | 006 | None     | 9600 8 - N - 1 |
| 7  | 007 | None     | 9600 8 - N - 1 |
| 8  | 008 | None     | 9600 8 - N - 1 |

### ID

It is a RS-485 device address.

You must set a address if PTZ camera is attached.

Available range is from 1 to 255.

You can change the PTZ camera ID using virtual keyboard.

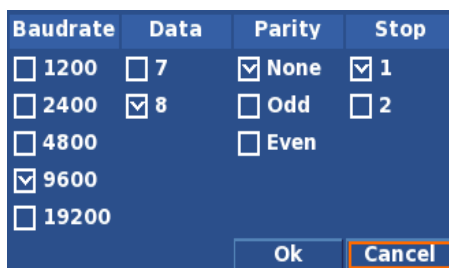
Press OK to show virtual keyboard.

### Model

You can choose a PTZ camera model or protocols.

### Settings

You can configure RS-485 communication settings.



| Baudrate                                 | Data                                  | Parity                                   | Stop                                  |
|--|---------------------------------------|--|---------------------------------------|
| <input type="checkbox"/> 1200            | <input type="checkbox"/> 7            | <input checked="" type="checkbox"/> None | <input checked="" type="checkbox"/> 1 |
| <input type="checkbox"/> 2400            | <input checked="" type="checkbox"/> 8 | <input type="checkbox"/> Odd             | <input type="checkbox"/> 2            |
| <input type="checkbox"/> 4800            |                                       | <input type="checkbox"/> Even            |                                       |
| <input checked="" type="checkbox"/> 9600 |                                       |  |                                       |
| <input type="checkbox"/> 19200           |                                       |  |                                       |

[ Settings ]

- Blank -

## ❖ Camera :: Keyboard



The screenshot shows a software window titled "CAMERA" with a close button in the top right corner. Below the title bar are four tabs: "Setup", "Motion", "PTZ", and "Keyboard", with "Keyboard" being the active tab. The main area of the window contains three configuration fields: "Keyboard Model" with a dropdown menu showing "TB-CN3R1", "Setting" with a text field containing "9600 8 - N - 1", and "DVR Number" with a text field containing "001". At the bottom right of the window are "Ok" and "Cancel" buttons.

### Model

You can choose a keyboard model when you connected by keyboard.

### Settings

You can configure RS-485 communication settings.

| Baudrate                                 | Data                                  | Parity                                   | Stop                                  |
|--|---------------------------------------|--|---------------------------------------|
| <input type="checkbox"/> 1200            | <input type="checkbox"/> 7            | <input checked="" type="checkbox"/> None | <input checked="" type="checkbox"/> 1 |
| <input type="checkbox"/> 2400            | <input checked="" type="checkbox"/> 8 | <input type="checkbox"/> Odd             | <input type="checkbox"/> 2            |
| <input type="checkbox"/> 4800            |                                       | <input type="checkbox"/> Even            |                                       |
| <input checked="" type="checkbox"/> 9600 |                                       |  |                                       |
| <input type="checkbox"/> 19200           |                                       |  |                                       |

Ok Cancel

- Blank -

# Event Settings

---

## ❖ Event :: Alarm In



| No      | Type | Link Camera | Preset |
|---------|------|-------------|--------|
| Alarm-1 | N/C  | 1           | None   |
| Alarm-2 | N/C  | 2           | None   |
| Alarm-3 | N/C  | 3           | None   |
| Alarm-4 | N/C  | 4           | None   |
| Alarm-5 | N/C  | 5           | None   |
| Alarm-6 | N/C  | 6           | None   |
| Alarm-7 | N/C  | 7           | None   |
| Alarm-8 | N/C  | 8           | None   |

### Type

You can configure a alarm device's output polarity.

- N/C : Normal Close
- N/O : Normal Open

### Link Camera

The linked camera starts to recording when alarm in event is detected.

- Blank -

## ❖ Event :: Alarm Out

| Channel   | Motion                   | Video Loss               | Alarm In                 |
|-----------|--------------------------|--------------------------|--------------------------|
| Channel-1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-3 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-4 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-5 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-6 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-7 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-8 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

### Alarm Out No

Set the alarm out no. you want to configure.

### Duration

You can set alarm output durations up to 30 sec..

- None / 3 / 5 / 10 / 20 / 30 seconds

### Motion

Alarm output will be turned on when motion event is detected.

### Video Loss

Alarm output will be turned on when video loss event is detected.

### Alarm In

Alarm output will be turned on when the camera is started to record by alarm in event. It is reflecting "Link Camera" settings in Event::Alarm In menu.

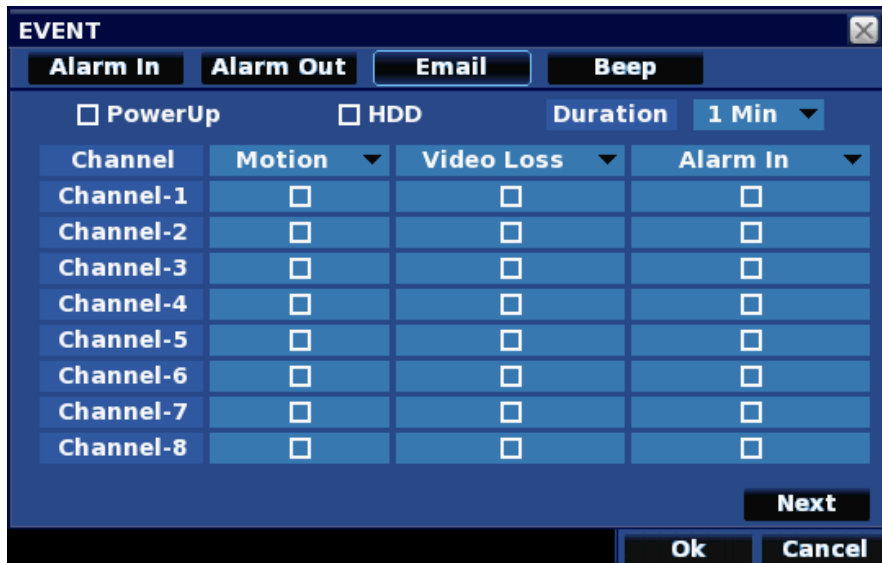
For example,

- Settings
  - Camera-1 is linked to Alarm In #1 and Alarm In #2 in Event::Alarm In menu.
  - Alarm In of Camera-1 is checked in Event::Alarm Out menu.
- Action

Alarm out is turned on when Alarm #1 or(and) Alarm #2 event is activated.

## ❖ Event :: Email

Configure email settings in System::Email menu to use this service.



| Channel   | Motion                   | Video Loss               | Alarm In                 |
|-----------|--------------------------|--------------------------|--------------------------|
| Channel-1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-3 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-4 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-5 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-6 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-7 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-8 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

### PowerUp

Email is sent when power is turned on.

### HDD

Email is sent when HDD event occurs.

### Motion

Email is sent when motion event is detected.

### Video Loss

Email is sent when video loss event is detected.

### Alarm In

Email is sent when the camera is started to record by alarm in event. It is reflecting “Link Camera” settings in Event::Alarm in menu.

## ❖ Event :: Beep

| Channel   | Motion                   | Video Loss               | Alarm In                 |
|-----------|--------------------------|--------------------------|--------------------------|
| Channel-1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-3 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-4 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-5 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-6 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-7 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Channel-8 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

### PowerUp

Buzzer beeps when power is turned on.

### HDD

Email is sent when HDD event occurs.

### Duration

You can set alarm output durations up to 30 sec..

- None / 3 / 5 / 10 / 20 / 30 seconds

### Motion

Email is sent when motion event is detected.

### Video Loss

Email is sent when video loss event is detected.

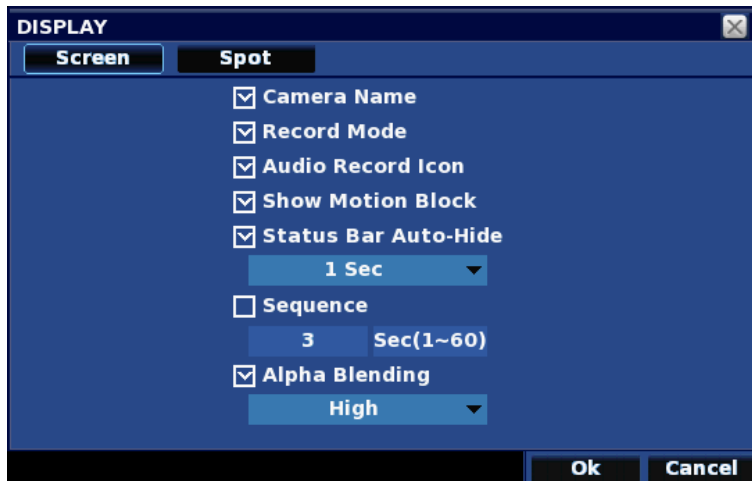
### Alarm In

Email is sent when the camera is started to record by alarm in event. It is reflecting “Link Camera” settings in Event::Alarm in menu.

# Display Settings

---

## ❖ Display :: Settings



### Camera name

It shows a camera name on the camera pane.

### Record mode

It shows record mode and status on the camera pane.

### Audio record icon

It shows audio record icon on the camera pane.

### Status bar auto-hide

Status bar will be hidden automatically if this option is enabled.

To watch status bar, Move the mouse pointer to bottom of the screen or press OK or Menu in front panel or remote controller. You can set show-time of the status bar from 1 to 10 seconds.

This configuration is applied to playback control bar also.

To watch playback control bar, move the mouse pointer to bottom of the screen or press playback control button in front panel or remote controller.

### Sequence

In check item main screen rotation enable and the set duration time.

Press combo box to show virtual keyboard.

### Alpha blending

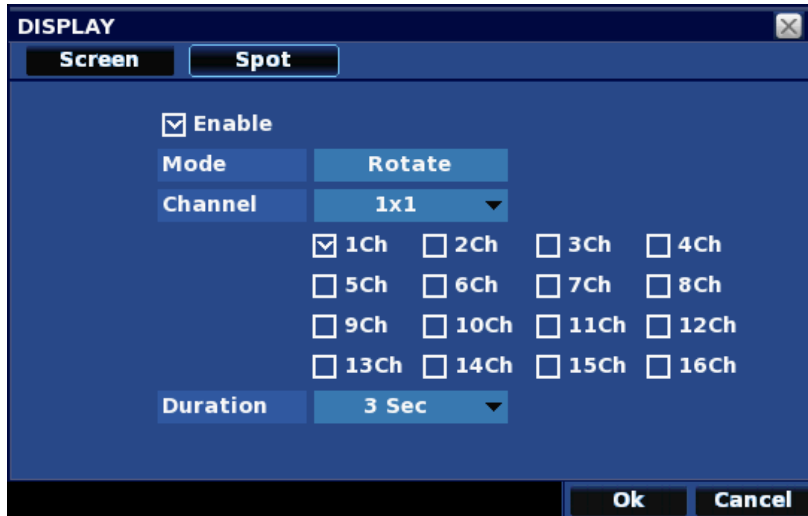
Menu box will be similar transparency if this option is enabled.

In Alpha blending mode, you can choose a value

- Opaque/ Low / Medium / High.



## ❖ Display :: Spot



The screenshot shows a window titled "DISPLAY" with a close button in the top right corner. Inside the window, there are two tabs: "Screen" and "Spot", with "Spot" currently selected. Below the tabs, there is a checkbox labeled "Enable" which is checked. Underneath, there are two labels: "Mode" and "Rotate". Below "Mode" is a label "Channel" followed by a dropdown menu showing "1x1". To the right of the "Rotate" label is a grid of 16 checkboxes labeled "1Ch" through "16Ch". The "1Ch" checkbox is checked, while the others are unchecked. Below the grid is a label "Duration" followed by a dropdown menu showing "3 Sec". At the bottom right of the window are "Ok" and "Cancel" buttons.

### Enable

It enables spot operations.

### Mode

There are two mode, Fixed and Rotate.

### Channel

In Fixed mode, you need to choose a channel you want to watch.

### Duration

In Rotate mode, you can choose a duration.

- 3 / 5/ 10 / 20 / 30 seconds.

- Blank -

# Storage Settings

---

## ❖ Storage :: Storage

| STORAGE   |          |      |        |  |             |
|---|----------|------|--------|--|-------------|
| <b>Storage</b> S.M.A.R.T.   Record   Backup   FTP |          |      |        |  |             |
| Temperature Limit                                 |          | 60   | °C     | <input checked="" type="checkbox"/> Enable | Refresh     |
| Device  | Capacity | Type | Format | S.M.A.R.T.                                 | Temperature |
| SATA-1  | 500GB    | Data | -      | N.A.                                       | -           |

### Enable

It enables HDD temperature limit event.

### Refresh

It updates storage information. It is useful when you attach USB storage.

### Device / Capacity

It shows storage types and its capacity.

Internal SATA storage is shown as SATA-{number} device.

### Format

This button is enabled when USB storage is attached.

You can format the storage using this button.

### S.M.A.R.T. (Self Monitoring Analysis and Reporting Technology)

It shows HDD health using S.M.A.R.T. .

### Temperature

It shows current HDD temperature using S.M.A.R.T. .

## ❖ Storage :: S.M.A.R.T.



1. Use S.M.A.R.T information for reference purpose only.  
*It does not indicating exact HDD conditions.*
2. Some old or new HDD could shows correct S.M.A.R.T. information.

STORAGE

Storage

S.M.A.R.T.

Record

Backup

FTP

Device

[SCSI-1] WDC WD3200AAKS-00YGA0

44 'C

| ID  | Attribute               | Value | Worst | Threshold |
|-----|-------------------------|-------|-------|-----------|
| 1   | Raw Read Error Rate     | 200   | 200   | 51        |
| 5   | Reallocated Sector Ct   | 200   | 200   | 140       |
| 10  | Spin Retry Count        | 100   | 100   | 51        |
| 196 | Reallocated Event Count | 200   | 200   | 0         |
| 197 | Current Pending Sector  | 200   | 200   | 0         |
| 198 | Offline Uncorrectable   | 200   | 200   | 0         |

Ok

Cancel

### ID

It is an index of S.M.A.R.T. register.

### Attribute

It is an attribute of the HDD.

### Value

It is a current monitoring status.

### Worst

It is a smallest value of the attributes.

### Threshold

It is a limitation which it is assigned by HDD manufacturer.

If the value close or lower than this value, then the HDD may has some problem.

## ❖ Storage :: Record



The screenshot shows the 'STORAGE' window with the 'Record' tab selected. It contains the following settings:

| Record Duration                                   | Continuously | -   | Days |
|---|--------------|-----|------|
| Write Mode  | Overwrite    |     |      |
| <input checked="" type="checkbox"/> Early Warning |              | 5 % |      |

### Record Duration

You can configure record time as below;

- Continuously
- 30 / 60 / 90 days
- User Define

### Write Mode

There are two modes;


- Overwrite : Old data on the HDD will be erased when the HDD is full.
- Suspend : Recording is stopped when the HDD is full.

### Early Warning

HDD event will be issued if remained HDD capacity is less than this limit.

From 5% to 30% are available.

## ❖ Storage :: Backup



The screenshot shows the 'STORAGE' window with the 'Backup' tab selected. It contains the following settings:

| Device     | -                           | Refresh  |
|------------|-----------------------------|--|
| Capacity   | -                           | -  |
| Channel    | All                         | Type Native DB <input type="checkbox"/> Daylight |
| Start Time | 2010 - 09 - 02 16 : 02 : 29 |  |
| End Time   | 2010 - 09 - 02 17 : 02 : 29 | Search   |
| Data Size  | -                           | Start  |

At the bottom, there are 'Ok' and 'Cancel' buttons.

- ◆ [Refer to “Backup” section in Chapter 3. Operation.](#)

# System Settings

---

## ❖ System :: Network

| SYSTEM  |                |
|---|----------------|
| <b>Network</b>   DDNS   Server   Log   User       |                |
| Info   Email   Time Sync   Etc                    |                |
| <input checked="" type="checkbox"/> DHCP   Detect |                |
| IP  | 10.0.1.142     |
| Subnet  | 255.255.252.0  |
| Gateway   | 10.0.0.1       |
| DNS1  | 210.220.163.82 |
| DNS2  | 219.250.36.130 |
| Ok   Cancel                                       |                |

### DHCP

Check this option if you do not using fixed IP.

The unit request an IP as soon as you save and exit the menu.

You can verify the IP address and other network configurations in this menu after a few minutes.

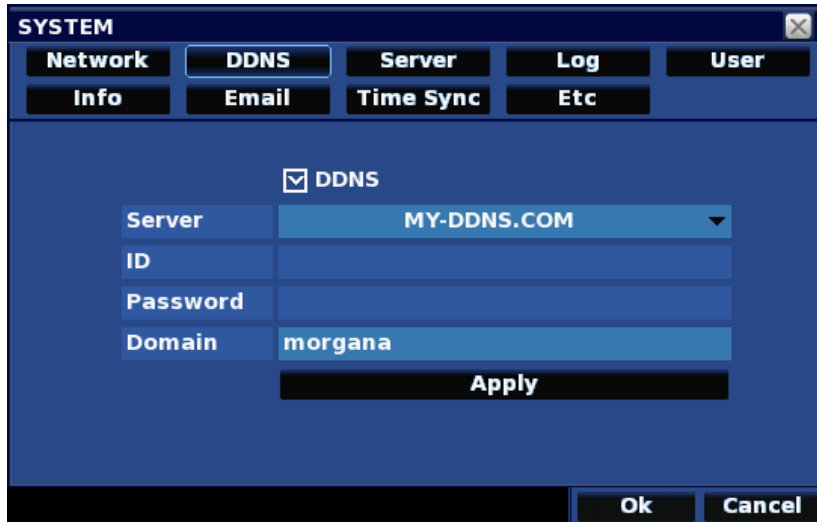
If the network condition is good, then the unit can get IP address within couple of seconds.

If you do not using DHCP, you have to fill all information out by yourself.

Please, ask details about the network information to your ISP or network administrator.

- Blank -

## ❖ System :: DDNS



The screenshot shows the 'SYSTEM' configuration window with the 'DDNS' tab selected. The 'DDNS' checkbox is checked. The 'Server' dropdown menu is set to 'MY-DDNS.COM'. The 'ID' and 'Password' fields are empty. The 'Domain' field contains 'morgana'. An 'Apply' button is located below the 'Domain' field. At the bottom of the window are 'Ok' and 'Cancel' buttons.

| Server      | ID | Password | Domain  |
|-------------|----|----------|---------|
| MY-DDNS.COM |    |          | morgana |

### DDNS

Check this option to enable Dynamic DNS function, you can choose one of two DDNS.

- 1) DNIP.NET : Public DDNS (Registration is required.)
- 2) MY-DDNS.COM : Closed DDNS (Registration is not required, Exclusive for this DVR)

### MY-DDNS.COM

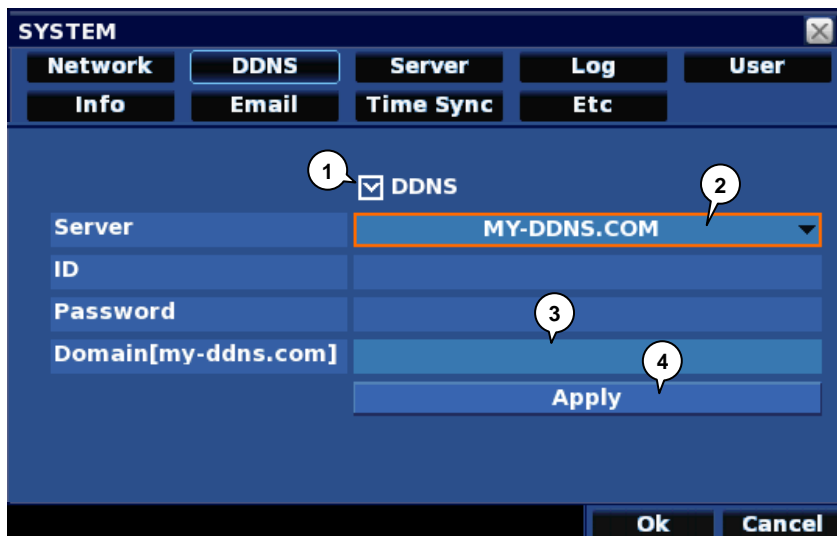
This exclusive DDNS is very easy to use. Just assign a domain name and apply it.

Step 1) Check DDNS option box.

Step 2) Choose MY-DDNS.COM

Step 3) Enter a name in Domain[my-ddns.com] column.

Step 4) Click Apply button, then a success message box will be shown.



The screenshot shows the 'SYSTEM' configuration window with the 'DDNS' tab selected. Numbered callouts indicate the steps: 1 points to the 'DDNS' checkbox, 2 points to the 'MY-DDNS.COM' dropdown, 3 points to the 'Domain[my-ddns.com]' field, and 4 points to the 'Apply' button. The 'ID' and 'Password' fields are empty. At the bottom of the window are 'Ok' and 'Cancel' buttons.

| Server      | ID | Password | Domain[my-ddns.com] |
|-------------|----|----------|---------------------|
| MY-DDNS.COM |    |          |                     |

## DYNDNS

This DDNS is a public DDNS, and registration is essential.

Step 1) Registration(sign-up) on the web.

Currently, we support DNIP.NET free service.

You need to sign-up at [www.dyndns.com](http://www.dyndns.com) to get an ID and password.

Refer that you need to configure “port forwarding” if you are using a router.

Visit <http://www.dyndns.com/> for details.

**Add New Hostname**

Note: You currently don't have any active [Dynamic DNS Pro upgrades](#) in your account. You cannot use features. Paying for an Dynamic DNS Pro upgrade will make this form fully functional and will add sev

**Hostname:** dvr · dyndns.org  
Hostname not given.

**Wildcard Status:** Disabled [\[Want Wildcard support?\]](#)

**Service Type:**  
☒ Host with IP address [\[?\]](#)  
☐ WebHop Redirect [\[?\]](#)  
☐ Offline Hostname [\[?\]](#)

**IP Address:** 218.54.186.86  
[Use auto detected IP address 218.54.186.86.](#)  
[TTL](#) value is 60 seconds. [Edit TTL.](#)

**Mail Routing:** ☐ Yes, let me configure Email routing. [\[?\]](#)

[Add To Cart](#)

[ DYNDNS sign-up screen ]

Step 2) Check DDNS option box.

Step 3) Choose DYNDNS

Step 4) Enter an ID and password that you registered at [www.dyndns.com](http://www.dyndns.com)

Step 5) Click Apply button, then a success message box will be shown.

**SYSTEM**

**Network** **DDNS** **Server** **Log** **User**  
**Info** **Email** **Time Sync** **Etc**

☒ DDNS

**Server** DYNDNS

**ID**

**Password**

**Domain** dvr.dyndns.org

**Apply**

**Ok** **Cancel**

## ❖ System :: Server

Network settings of the unit are shown in this menu.

The screenshot shows the 'SYSTEM' window with the 'Server' tab selected. The settings are as follows:

| Setting      | Value         |
|--------------|---------------|
| TCP Port     | 21000 ~ 21004 |
| UDP Port     | 5100          |
| HTTP Port    | 65000         |
| Max. Connect | 6             |
| Max. Search  | 1             |

Below the table, there is an 'Event Server' button and a checkbox for 'UPnP NAT Traverse' which is checked. A 'Test' button is located next to the checkbox. At the bottom right are 'Ok' and 'Cancel' buttons.

### TCP / UDP / HTTP port

These port is fixed to 5000, 5100 and 8080, it is used for CMS and Web viewer service.

### Max. Connect

This value is a limit of total number of network connections for live viewing. System could be unstable if the connection is too much.

### Max. Search

This value is a limit of total number of network connections for search. Since search requires too much system resource, it could be a cause of unstable operation.

### Event Server

Press "Event server" button appear server list box.

The server list is received server from event data by CMS host.

The screenshot shows the 'SYSTEM' window with the 'Server' tab selected. The 'Event Server' button has been pressed, opening a list box with the following table:

| No | Server | Port |
|----|--------|------|
| 1  |        | -    |
| 2  |        | -    |
| 3  |        | -    |
| 4  |        | -    |
| 5  |        | -    |

Below the table are 'Prev', 'Next', 'Ok', and 'Cancel' buttons. At the bottom right of the main window are 'Ok' and 'Cancel' buttons.



## ❖ System :: Log

You can verify history of the system operation in this log menu.

**SYSTEM**

Network DDNS Server **Log** User

Info Email Time Sync Etc

Type: All ☐ Descending

Start: 2010 - 01 - 14 20 : 31 : 09

End: 2010 - 01 - 14 20 : 45 : 09 **Search**

[Admin] 2010-01-14 20:33:26 Setup finished.  
[Admin] 2010-01-14 20:35:18 Setup start.  
[Admin] 2010-01-14 20:38:53 Setup finished.  
[Admin] 2010-01-14 20:38:56 Setup start.  
[Admin] 2010-01-14 20:43:04 DDNS success.

**Save**

**Ok Cancel**

### Type

You can choose a type of history such as System, Setup, Search and etc...

### Start / End

You can set search range using this column.

### Search

Start to search log as soon as press Search button.

### Save

You can save the log data using USB storage. File name is fixed to "log.txt".

## ❖ System :: User

**SYSTEM**

Network DDNS Server Log **User**

Info Email Time Sync Etc

| No | ID    | Password | Permission | Hidden    |
|----|-------|----------|------------|-----------|
| 1  | Admin | *****    | All        | None      |
| 2  | Guest | *****    | Live       | 1 3 6 ... |
| 3  | User1 | *****    | Live       | 1         |
| 4  | User2 | *****    | Live       | 3         |
| 5  | User3 | *****    | Live       | 2         |

**Prev Next**

**Ok Cancel**

◆ Refer to "User management" section in Chapter 2. Pre-acknowledgement.

## ❖ System :: Info

The screenshot shows a web interface titled "SYSTEM" with a close button in the top right. Below the title is a navigation bar with buttons: "Network", "DDNS", "Server", "Log", "User", "Info" (selected), "Email", "Time Sync", and "Etc". The main content area displays a table of system information:

|                  |                             |
|------------------|-----------------------------|
| Name             | DVR                         |
| Remocon ID       | 00                          |
| Firmware Version | 1.2.2 [Sep 2 2010 14:36:17] |
| Kernel Version   | 1.0.9                       |
| MAC Address      | 00:22:e8:00:00:d1           |

Below the table is an "Admin Menu" button. At the bottom of the window are "Ok" and "Cancel" buttons.

### Name

Name on network (CMS).

### Remocon ID

Identification for IR remote controller.

See "Infrared remote controller" in Chapter 2. Pre-acknowledgement.

### Firmware Version

Firmware version information.

### Kernel Version

Kernel version information.

### MAC address

Identification of the unit on network, it must be unique to prevent conflict on the network.

### Service Menu

You can switch to Service Menu through this button.

See Chapter 5. Service menu for details.

## ❖ System :: Email

SYSTEM

Network DDNS Server Log User

Info Email Time Sync Etc

Email-1(Receive)

Email-2(Receive)

SMTP AUTH ☐

Server

Port

ID

Password

Test Send

Ok Cancel

### Email-1 (Receive)

Primary receiver's email address.

### Email-2 (Receive)

Secondary receiver's email address.

### SMTP Auth

Use to SMTP Authentication.

### Server

IP address or URL of SMTP server for sending.

### ID

Sender email account of the SMTP server.

### Passowrd

Password of the sender account.

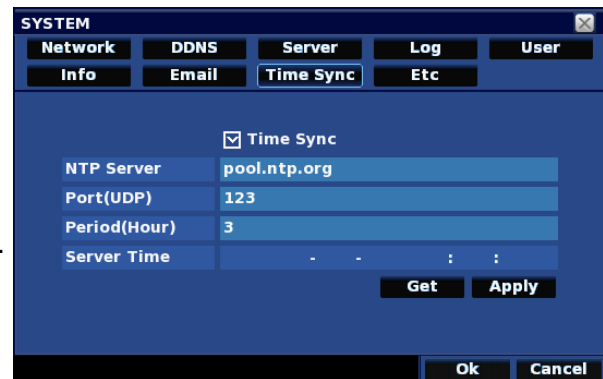
### TestSend

Test Mail will be sent as soon as press the button.

## ❖ System :: Time Sync.

### Time Sync.

When checked, the unit starts to synchronize system clock with network time server using NTP. NTP server offers most reliable atomic clock.



### NTP Server

The unit will look for near network time server if you use “pool.ntp.org” . You can use other network time server if the default server setting has some problem.

### Port(UDP)

It is a NTP port fixed by network time server.

### Period(Hour)

The unit synchronizes the clock periodically, you can set its period in hour unit.

### Server Time

It shows the time offered by network time server when press Get button.

### Get

The unit tries to get a time from network time server. Server Time will be updated if there is no problem.

### Apply

Change current system time using network time server, this is “Time Synchronization”.



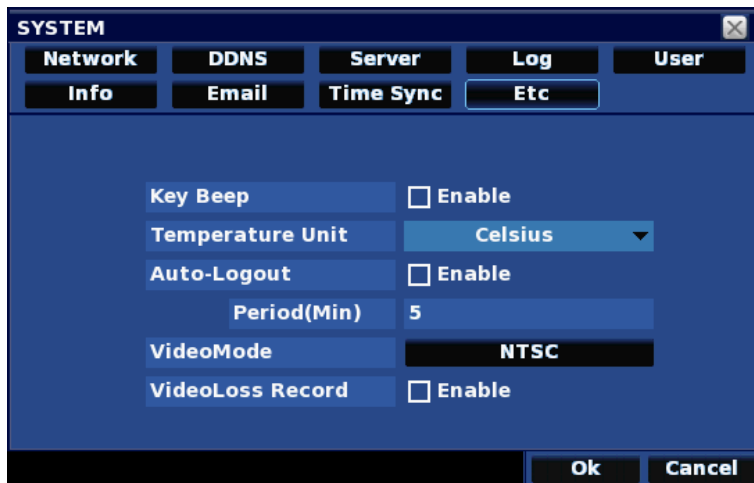
#### **TIP** Failure of time synchronization

If time difference is too big, then it shows failure message.

In this case, you need to try Time Sync. In Service::DateTime menu.

If system time is faster than network time server's time, then it is recommended to backup recent data. Otherwise, it will be erased.

## ❖ System :: Etc



### Key Beep

Buzzer beeps when front panel button or remote controller button is pressed.

### Temperature Unit

You can choose temperature display unit between celsius degree and fahrenheit degree.

### Auto-Logout

It enables auto-logout operations.

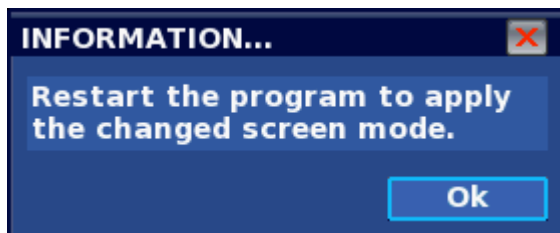
In auto-logout operations, you can adjust a duration using virtual keyboard.

It's duration adjustable to one to sixty minute by one minute unit.

### VideoMode

You can choose video mode between NTSC and PAL.

If you change the video mode, a warning window appears



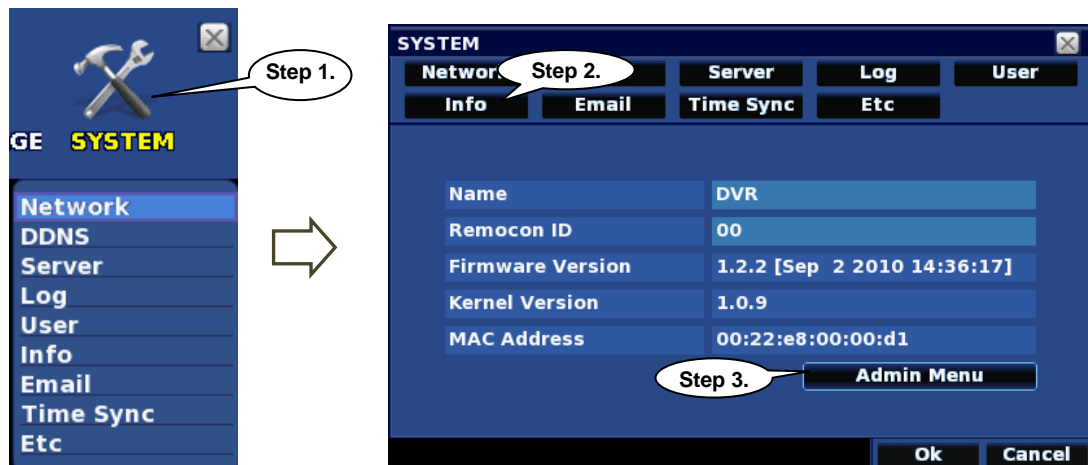
### VideoLoss Record

If you enable this item to record the video loss.

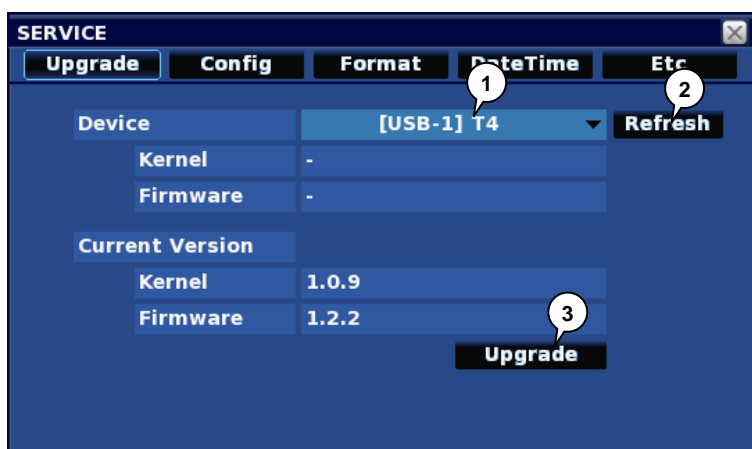
# Chapter 5. Admin Menu

## Enterin to service menu

You can enter to service menu through System::Info menu.



## ❖ Admin :: Upgrade



You can upgrade kernel and firmware using USB storage at same time or separately.

Step 1. Choose USB storage which is containing Upgrade file. Press "Refresh" button if there is no USB storage device.

Step 2. Press "Refresh" button.  
The unit will start to scan USB storage, and show its version.

Step 3. Press "Upgrade" button to start to upgrade.  
Upgrade will takes a couple of minutes.

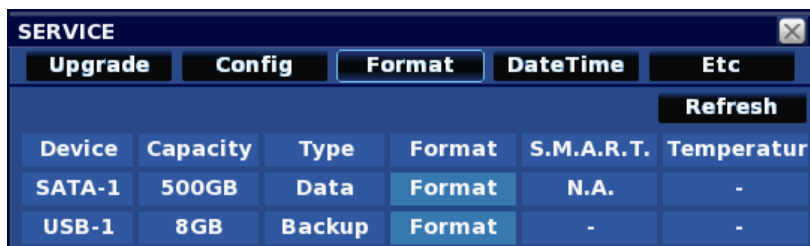
## ❖ Admin :: Config



You can export or import unit's configuration using USB storage.

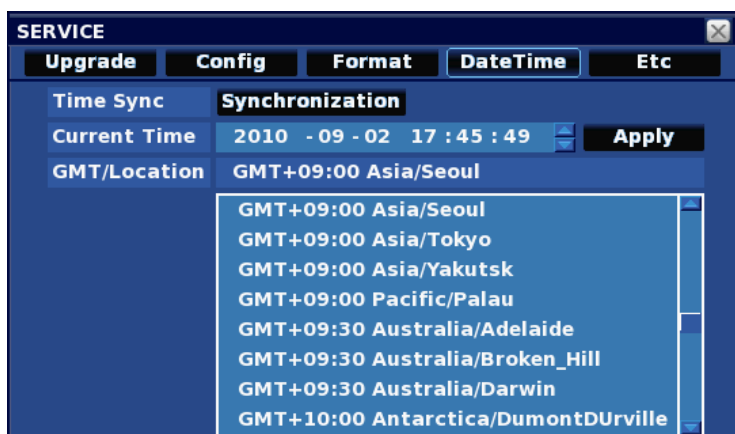
- Factory default : Return to factory default settings.
- Export : Copy this unit's configuration file to USB storage.  
You can find "Config.dat" in the USB storage.
- Import : Copy configuration file from USB storage.

## ❖ Admin :: Format



Since recording is stopped in Service menu, you can format any data disk. Press Format button on the GUI.

## ❖ Admin :: DateTime



## Time Sync.

You can adjust system clock using this menu.

Standard time will be shown as below when you press “Synchronization” button.

|  |                     |
|--|---------------------|
| Standard Time                                | 2008-07-21 19:49:08 |
| System Time                                  | 2008-07-21 19:49:07 |
| <div><div>Sync.</div><div>Cancel</div></div> |                     |

Press “Sync.” To adjust system clock to standard time which is read from network time server.

## Current Time

It shows current system clock, and you can adjust it by manual.

Press “Apply” to change system clock after adjustment.

## GMT/Location

Assign correct location where the unit is installed.

Since this information is a reference of daylight saving rule, it must be correct.

## ❖ Admin :: Etc

SERVICE

Upgrade

Config

Format

DateTime

Etc

Language

English

Apply

Delete Log

Delete

Mac

00

22

e8

00

00

d1

## Language

You can choose your local language or other language you want to use.

## Delete Log

You can click a delete button then delete log file.

## Mac

You can change the Mac address then you get Mac address.



# Appendix 1. Menu tree

| Record                |
|-----------------------|
| Setup                 |
| Image Size            |
| Fps (Recording Speed) |
| Image Quality         |
| Pre Alarm             |
| Post Alarm            |
| Network               |
| Fps (Network speed)   |
| Image Quality         |
| Schedule              |
| None                  |
| Normal                |
| Motion                |
| Alarm                 |
| Alarm+Motion          |
| Holiday               |
| Today                 |
| Clear All             |

| Display              |
|----------------------|
| Screen               |
| Camera Name          |
| Record Mode          |
| Audio Record Icon    |
| Status bar auto-hide |
| Status bar show time |
| Spot                 |
| Enable               |
| Mode                 |
| Channel              |
| Duration             |

| Camera         |
|----------------|
| Setup          |
| Camera Name    |
| Camera Enable  |
| Audio Enable   |
| Saturation     |
| Contrast       |
| Bright         |
| Motion         |
| Enable         |
| Region         |
| Sensitivity    |
| PTZ            |
| ID             |
| Model          |
| Setting        |
| Keyboard       |
| Keyboard Model |
| Setting        |
| DVR Number     |

| Storage                |
|------------------------|
| Storage                |
| Device                 |
| Capacity               |
| Type                   |
| Format                 |
| S.M.A.R.T. Health      |
| Temperature            |
| S.M.A.R.T.             |
| Record                 |
| Record Duration        |
| Write Mode             |
| Early warning enable   |
| Early warning level(%) |
| Backup                 |
| Device                 |
| Capacity               |
| Channel                |
| Type                   |
| Daylight Saving        |
| Start                  |
| End                    |
| Data Size              |

[ Continue ]

| Event         |
|---------------|
| Alarm In      |
| Type          |
| Linked Camera |
| Alarm Out     |
| Alarm Out No  |
| Duration      |
| Motion        |
| Video Loss    |
| Alarm In      |
| Email         |
| Power Up      |
| HDD           |
| Motion        |
| Video Loss    |
| Alarm In      |
| Beep          |
| Power Up      |
| HDD           |
| Duration      |
| Motion        |
| Video Loss    |
| Alarm In      |

| Storage  |
|----------|
| FTP      |
| Address  |
| ID       |
| Password |
| Port     |
| Schedule |

[ Continued ]

| System          |                    |
|-----------------|--------------------|
| Network         | Info               |
| DHCP Enable     | DVR Name           |
| IP Address      | Remocon ID         |
| Subnet          | Firmware Version   |
| Gateway         | Kernel Version     |
| DNS1            | MAC Address        |
| DNS2            | Service Menu       |
| DDNS            | Time Sync.         |
| Enable          | NTP Server         |
| Server          | Port               |
| ID              | Period(Hour)       |
| Password        | Server Time        |
| Server          | Get                |
| TCP Port        | Apply              |
| UDP Port        | Email              |
| HTTP Port       | Email#1            |
| Max. Connection | Email#2            |
| Max. Search     | SMTP Server        |
| Log             | SMTP ID            |
| Type            | SMTP Password      |
| Start / End     | Test Send          |
| Search          | Etc                |
| Save            | Key Beep           |
| User            | Temp. Unit ('C/'F) |
| ID              |                    |
| Password        |                    |
| Permission      |                    |
| Hidden          |                    |

| ADMIN MENU      |  |
|-----------------|--|
| Admin           |  |
| Upgrade         |  |
| Device          |  |
| Kernel Version  |  |
| F/W Version     |  |
| Current Version |  |
| Kernel Version  |  |
| F/W Version     |  |
| Upgrade         |  |
| Config          |  |
| Device          |  |
| Factory Default |  |
| Export          |  |
| Import          |  |
| Format          |  |
| DateTime        |  |
| Time Sync.      |  |
| Current Time    |  |
| GMT / Location  |  |
| Etc             |  |
| Languag         |  |
| Delete Log      |  |
| Get Mac Address |  |

### Quick Menu (Live View)

| Quick Menu     |
|----------------|
| Zoom           |
| PTZ            |
| Quick Play     |
| Lock           |
| Volume         |
| Sequence       |
| OSD on         |
| Deinterlace on |
| 2x2            |
| 3x3            |
| 4x4            |
| Shutdown       |

### Quick Menu(Search View)

| Quick Menu     |
|----------------|
| Volume         |
| OSD on         |
| Deinterlace on |
| 2x2            |
| 3x3            |
| 4x4            |

## Appendix 2. Factory default settings

- \* F/W Version : 1.1.2 [ MAY 7, 2010 ]
- \* Password : 11111111 (Eight digit of '1')

### ■ RECORD

| Parameter         | Default | Range   |
|-------------------|---------|---|
| <b>Setup</b>      |         |   |
| Image Size        |         |   |
| NTSC              | 352x240 | 704x480 / 704x240 / 352x240   |
| PAL               | 352x288 | 704x576 / 704x288 / 352x288   |
| Frame Rate (NTSC) |         |   |
| 704x480           | 30 fps  | 30 / 15 / 7.5 / 3.75 / 1.88   |
| 704x240           |         |   |
| 352x240           |         |   |
| Frame Rate (PAL)  |         |   |
| 704x576           | 25 fps  | 25 / 12.5 / 6.25 / 3.13 / 1.56  |
| 704x288           |         |   |
| 352x288           |         |   |
| Quality           | Best    | Best / High / Medium / Low / Lowest   |
| Pre-Alarm         | 5 sec   | None / 5 sec.   |
| Post-Alarm        | 5 sec   | None / 3 / 5 / 10 / 20 / 30 sec.  |
| <b>Network</b>    |         |   |
| Image Size        |         |   |
| NTSC              | 352x240 | 704x480 / 704x240 / 352x240   |
| PAL               | 352x288 | 704x576 / 704x288 / 352x288   |
| Frame Rate (NTSC) |         |   |
| 352x240           | 30 fps  | 30 / 15 / 7.5 / 3.75 / 1.88   |
| Frame Rate (PAL)  |         |   |
| 352x288           | 25 fps  | 25 / 12.5 / 6.25 / 3.13 / 1.56  |
| Quality           | Best    | Best / High / Medium / Low / Lowest   |
| <b>Schedule</b>   |         |   |
| Mode              | Normal  | None / Normal / Alarm / Motion / Alm+Mot<br>(Default = Normal recording for 24 hours/7days) |
| <b>Holiday</b>    |         |   |
| Settings          | -       | No Holiday  |

### ■ CAMERA

| Parameter     | Default     | Range  |
|---------------|-------------|--|
| <b>Setup</b>  |             |  |
| Name          | "CAMnn"     | Max. 12 character  |
| Enable        | Checked     | Checked / Unchecked  |
| Audio         | Unchecked   | Checked / Unchecked  |
| Saturation    | 58          | 0 ~ 100  |
| Contrast      | 44          | 0 ~ 100  |
| Brightness    | 50          | 0 ~ 100  |
| <b>Motion</b> |             |  |
| Enable        | Checked     | Checked / Unchecked  |
| Region        | Full        | Full / User  |
| Sensitivity   | Step 1 (Hi) | Step 1 (Hi) ~ Step 5 (Lo)  |
| <b>PTZ</b>    |             |  |
| ID            | 001 ~ 255   | 001 ~ 255  |
| Model         | None        | Various  |
| Setting       | 9600 8-N-1  | Baud : 1200 / 2400 / 4800 / 9600 / 19200 bps<br>Data : 7 / 8 bit, Parity : None/Odd/Even<br>Stop : 1 / 2 bit |

## ■ EVENT

| Parameter        | Default   | Range                          |
|------------------|-----------|--------------------------------|
| <b>Alarm In</b>  |           |                                |
| Type             | N/C       | N/C or N/O                     |
| Link Camera      | 1:1       | 1 ~ 16                         |
| <b>Alarm Out</b> |           |                                |
| Duration         | 5 sec     | None / 3 / 5 / 10 / 20 / 30sec |
| Motion           | Unchecked | Checked / Unchecked            |
| Video Loss       | Unchecked | Checked / Unchecked            |
| Alarm In         | Unchecked | Checked / Unchecked            |
| <b>Email</b>     |           |                                |
| Power Up         | Unchecked | Checked / Unchecked            |
| HDD              | Unchecked | Checked / Unchecked            |
| Motion           | Unchecked | Checked / Unchecked            |
| Video Loss       | Unchecked | Checked / Unchecked            |
| Alarm In         | Unchecked | Checked / Unchecked            |
| <b>Beep</b>      |           |                                |
| Duration         | 5 sec     | None / 3 / 5 / 10 / 20 / 30sec |
| Power Up         | Unchecked | Checked / Unchecked            |
| HDD              | Unchecked | Checked / Unchecked            |
| Motion           | Unchecked | Checked / Unchecked            |
| Video Loss       | Unchecked | Checked / Unchecked            |
| Alarm In         | Unchecked | Checked / Unchecked            |

## ■ DISPLAY

| Parameter           | Default   | Range                        |
|---------------------|-----------|------------------------------|
| <b>Screen</b>       |           |                              |
| Camera name         | Checked   | Checked / Unchecked          |
| Record mode         | Checked   | Checked / Unchecked          |
| Audio record icon   | Checked   | Checked / Unchecked          |
| Status bar autohide | Unchecked | Checked / Unchecked          |
| Show                | None      | 1 / 3 / 5 / 10 sec           |
| Alpha Blending      | Unchecked | Checked / Unchecked          |
| Show                | Medium    | Opaque / Low / Medium / High |
| <b>Spot</b>         |           |                              |
| Enable              | Unchecked | Checked / Unchecked          |
| Mode                | Fixed     | Fixed / Rotate               |
| Channel             | 1         | 1 ~ 16                       |
| Duration            | 3 sec     | 3 / 5 / 10 / 20 / 30         |

## ■ STORAGE

| Parameter           | Default      | Range   |
|---------------------|--------------|---|
| <b>Record</b>       |              |   |
| Record Duration     | Continuously | Continuously / 30 / 60 / 90 Days / User define (1 ~ 365 Days) |
| Write mode          | Overwrite    | Overwrite / Suspend   |
| Early Warning       | Checked      | Checked / Unchecked   |
| Early Warning Level | 5%           | 5 / 10 / 20 / 30% (Remained Capacity)                         |

## ■ SYSTEM

| Parameter         | Default       | Range  |
|-------------------|---------------|--|
| <b>Network</b>    |               |  |
| DHCP              | Unchecked     | Checked / Unchecked                                      |
| IP                | 192.168.0.100 | -  |
| Subnet            | 255.255.255.0 | -  |
| Gateway           | 192.168.0.1   | -  |
| DNS1              | 168.126.63.1  | -  |
| DNS2              | 168.126.63.2  | -  |
| <b>DDNS</b>       |               |  |
| DDNS              | Unchecked     | Checked / Unchecked                                      |
| Server            | -             | -  |
| ID                | -             | Max. 20 character  |
| Password          | -             | Max. 20 character  |
| Domain            | -             | Max. 20 character  |
| <b>Server</b>     |               |  |
| TCP Port          | 5000          | 0 ~ 65535  |
| UDP Port          | 5100          | 0 ~ 65535  |
| HTTP Port         | 8080          | 0 ~ 65535  |
| Max. Connect      | 6             | 1 ~ 20 (TBD)   |
| Max. Search       | 1             | 1 ~ 2 (TBD)  |
| <b>User</b>       |               |  |
| Admin             | All           | All  |
| Guest             | Live          | -  |
| User1 ~ User18    | Search        | Max. 10 character, Live / Search / Setup / All           |
| Password          | "11111111"    | Max. 8 digit, Accept alphabet and number, Case sensitive |
| Hidden Camera     | None          | 1 ~ 4  |
| <b>Info</b>       |               |  |
| Name              | DVR           | Max. 16 characters                                       |
| Remocon ID        | 0             | 0 ~ 99   |
| <b>Email</b>      |               |  |
| Email-1(Receive)  | -             | Max. 30 characters                                       |
| Email-1(Receive)  | -             | Max. 30 characters                                       |
| SMTP (send)       |               |  |
| Server            | -             | Max. 25 characters                                       |
| ID                | -             | Max. 25 characters                                       |
| Password          | -             | Max. 40 characters                                       |
| <b>Time Sync.</b> |               |  |
| Time Sync.        | Unchecked     | Checked / Unchecked                                      |
| NTP Server        | pool.ntp.org  | Min. 25 character  |
| Port(UDP)         | 123           | 1 ~ 65535  |
| Period            | 3 Hour        | 1 ~ 24 Hour  |
| <b>Etc</b>        |               |  |
| Key Beep          | Checked       | Checked / Unchecked                                      |
| Temperature Unit  | Celsius       | Celsius / Fahrenheit                                     |
| Auto-Logout       | Unchecked     | Checked / Unchecked                                      |
| Period(Min)       | 5 Minute      | 5 ~ 60 Minute  |
| VideoMode         | NTSC          | NTSC / PAL   |
| VideoLoss Record  | Unchecked     | Checked / Unchecked                                      |

- End of document -