FCC Compliance Statement

Caution : Any changes or modifications in construction of this device which are not expressly approved the party responsible for compliance could void the user's authority to operate the equipment.

NOTE : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications, However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type.

Disposal of used batteries according to the general recommendations against the environmental pollution.

Important Notice

1. When using DS800, do not put heavy monitor or others on DS800.

2. DS800 is indoor use and all the communication wirings are limited to inside of building. Therefore you should consider environmental specifications that are included in the manual. For DS800 cleaning, gently wipe the outside with a clean dry cloth.

3. Be sure to use a DC adapter that is provided by Web Gate Inc. Connecting DS800 directly to a AC current, may cause electric damages to DS800.

4. Be cautious of handling DS800. Physical shocks may harm the product.

5. DS800 is made with a metal case. When installing the camera, be sure it is attached securely to avoid any injures. Be careful to locate the camera where children cannot reach it.

6. If DS800 does not operate properly, please contact the closest local WebGate distributor for after sales service. In all cases, you are prohibited to disassemble the product. If so, WebGate is not responsible for any malfunction nor service warranty.

7. Security surveillance laws may differ for each country. Therefore, please contact the local region first to avoid any surveillance law violations and to apply for authorized purposes only.

DS800 Manual

Version : 0.1

Making Date : July, 11, 2003

1. Install & Run

1.1. Descriptions

A. Front Panel
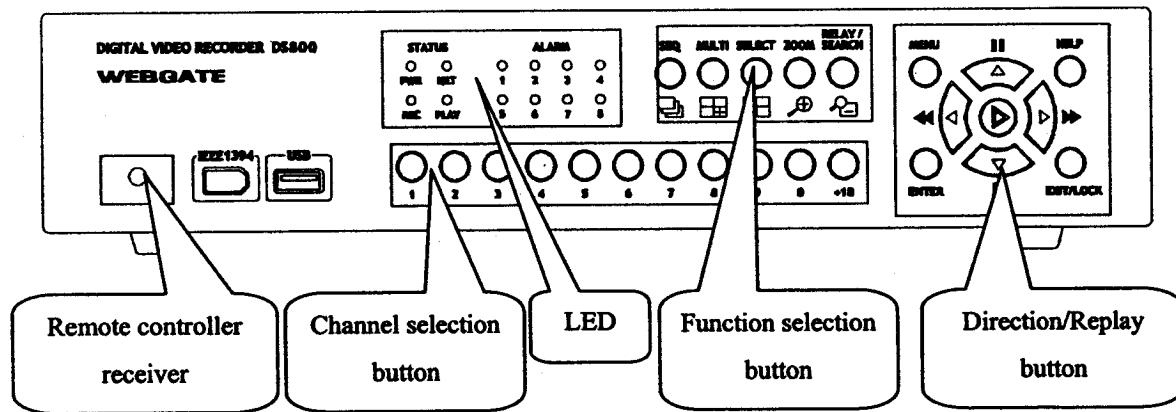
(1) Remote Controller Receiver

(2) Channel Selection Button

-   To select video input channel in monitoring and playback mode

(3) LED

-   PWR : To show power supplying status. "ON" means to supply power.

-   NET : To show the status of Ethernet and communication. It blinks as many as transmitted frames per second.

-   REC : To show frame recording status. It blinks as many as recording frame per second.

-   PLAY : To show playback mode. It blinks as many as replaying frame per second.

-   ALARM 1~8

(4) Function selection button

-   SEQ : To show with converting all connected video channels

-   MULTI : To show multi channels (4-9 divided screen)

-   SELECT : To select video channel for PTZ control

-   ZOOM : To show expanded image via one channel mode

-   SEARCH : To search the recorded image in Playback mode

(5) Direction/Replaying Button

- MENU : To set PTZ and configuration menu

- ENTER : To confirm the selected menu

- HELP :

- EXIT : To exit form the selected menu

- Arrow key : Replay function or menu moving function

B. Rear Panel
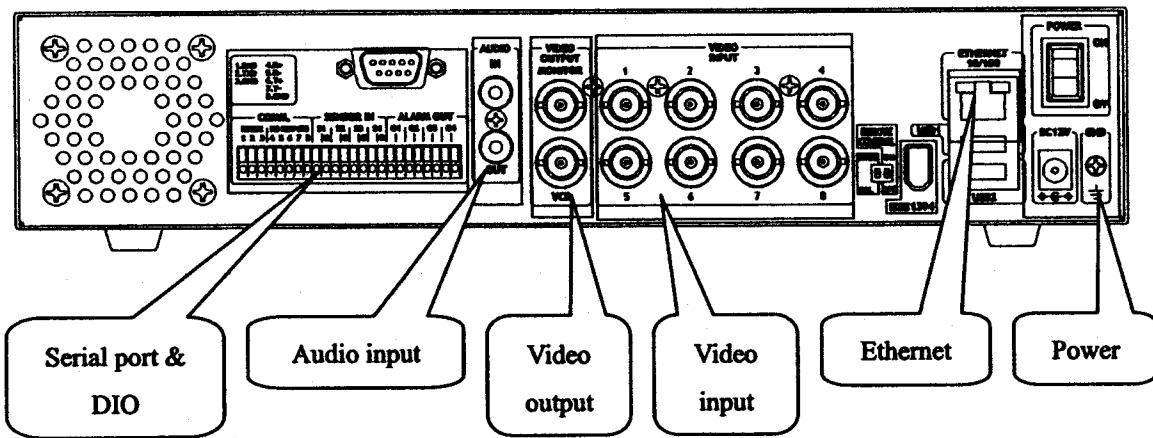
(1) Serial Port & DIO

- Serial : RS232 9Pin D-Sub Connector & RS232/422/485 terminal block

- Sensor In : 4 sensor inputs

- Alarm Out : 4 Alarm Relay outputs

(2) Audio In/Output

- 1 audio input & 1 output

(3) Video Output

- 1 monitor output & 1 VCR output

(4) Video Input

- 8 video inputs

(5) Ethernet

(6) Power

1.2. Connect Device

A. Connect Video

B. Connect Monitor

C. Connect Ethernet

D. Connect Audio

E. Connect Power & Run

2. Monitor

It is to monitor real time image. Ch. 1~8 are for analogue image input via BNC cable, and Ch. 5~16 are for digital image input of network camera via network.

A. View basic screen (quad-split)

   (1) Supply power.

   (2) Power LED is on, and DVR starts booting.

   (3) After booting, basic screen (quad-split) shows.

   ✻ If user password is set, a dialogue for entering password will be indicated.

B. View full screen

   (1) Press the button of channel that user wants to view from multi screen (4/9).

   (2) Channels can be selected Ch.1 to Ch.8.

   (3) Screen changes into 1 channel full screen, and the related channel shows.

   (4) If pressing the [MULTI] button, full screen moves to the previous multi screen.

C. View multi screen

   (1) Press the [MULTI] button for viewing several channels simultaneously.

   (2) Whenever pressing the [MULTI] button, 4-9 split screens are changed in due order.

   (3) In quad-split mode, images of channels 1 to 4 show. Channels 1 to 8 in 9-split mode.

D. View all channels with automatic converting

   (1) All channels can be viewed in due order automatically with using the [SEQ]

button.

(2) Press the [SEQ] button from current multi screen.

(3) Show [SEQ] mode in the right of screen and sequential images as much as the configured 'Auto SW Interval' value.

(4) If connected channels are smaller than number of current split screen, SEQ function will not run.

(5) Set 'Auto SW Interval' value in menu. Default value is 3 seconds.

(6) To shut down [SEQ] function, press the [SEQ] button.

E. View an alarm triggered channel

(1) Set 'Alarm Pop-up Screen' function in menu.

(2) When alarm is triggered, the related channel pops up automatically.

(3) According to alarm triggered channel number, a split screen shows automatically. For example, if alarm triggered channels are three, the images show in quad-split screen.

(4) Show type of alarm trigger in the left of screen.

F. View extended image

(1) Extended image can be viewed with [ZOOM] button from 'Full screen' mode.

(2) Press the [ZOOM] button.

(3) Extended image shows by twice size.

(4) Default place of extended image is on the center of screen. And it can move each 10th step to left and right and 4th to up and down.

(5) To move it, use the [Arrow] button.

(6) If repress the [ZOOM] button, the function is cancelled.

G. View with connecting PTZ

(1) When PTZ controller is connected to eDVR and "Serial Conf." is set in menu, PTZ can be controlled.

(2) Press the [SELECT] button in monitor mode.

(3) Channel selection menu shows.

(4) Select a channel with [Arrow] button.

(5) Press the [MENU] button.

(6) PTZ menu (PAN/TILT, ZOOM/FOCUS, Preset, Preset Save) shows.

(7) Press the [ENTER] button after selecting one.

(8) When selecting 'PAN/TILT' or 'ZOOM/FOCUS', [UP/DOWN] arrow key is for

'TILT/FOCUS' and [LEFT/RIGHT] arrow key for 'PAN/ZOOM'.

(9) When selecting 'Preset', a dialogue for selecting stored preset shows.

(10) When selecting 'Preset Save', a dialogue for storing current point as preset shows.

H. View network camera's image

(1) Channels 5 to 16 are for input of network cameras (WebEye Series, I-Rec Series).

(2) eDVR should be connected to Ethernet and the related channel be set in MENU.

3. Playback

It is to replay recorded images via full screen or quad split screen.

A. Playback via basic screen (full screen)

(1) Press the Play [▶] button.

(2) Play [▶] button is to replay as 1x.

(3) The recorded image of channel 1 before 1 minute 45 seconds is displayed.

B. Playback via split screen

(1) Press the [MULTI] button from basic screen playback mode.

(2) Channels 1 to 4 shows in quad-split screen.

(3) To move into basic screen playback, press the related channel number.

C. Playback with extending

(1) Press the [ZOOM] button from basic screen playback mode.

(2) Extended image shows by twice size.

(3) Default place of extended image is on the center of screen. And it can move each 10th step to left and right and 4th to up and down.

(4) To move it, use the [Arrow] button.

(5) If repress the [ZOOM] button, the function is cancelled.

D. Various playback modes

(1) ▶ (PLAY) : To replay as 1x.

(2) ■ (STOP) : To stop replaying

(3) ▌ ▌(PAUSE) : To pause replaying

(4) ▶▶ (FAST FORWARD) : Whenever pressing the button, replaying speed

increases gradually (x1, x2, x4, x8, x16)

(5) ◄ ◄ (FAST REWIND) : Whenever pressing the button, reverse replaying speed increases gradually (x1, x2, x4, x8, x16)

(6) STEP FORWARD : When pressing [▶, Replay] or [▶▶, FAST FORWARD] button from pause status, image is replayed frame by frame.

(7) STEP REWIND : When pressing [◄ ◄, FAST REWIND] button from pause status, image is replayed frame by frame.

4. Search

It is to search any image in playback mode.

(1) Press the [SEARCH] button in playback mode.

(2) Search something with entering date/time or selecting log in log browser.

(3) Searching channel is current playback channel.

(4) Press the [ENTER] button after entering the related value or selecting log.

(5) The searched image is replayed.

(6) To exit from search mode, press the [EXIT] button.

5. Setting menu

It is to set channel and recording schedule with using [MENU] button.

A. Descriptions

(1) Press the [Menu] button of front panel.

(2) Enter Admin password, if it is set.

(3) Main menu can be selected with 'left/right' button. To move to the sub menu, press the [Enter] button.

(4) To move to upper menu, press the [Exit] button.

(5) A changed value is applied instantly.

(6) Status bar indicates value of selected menu or help.

Setting Menu
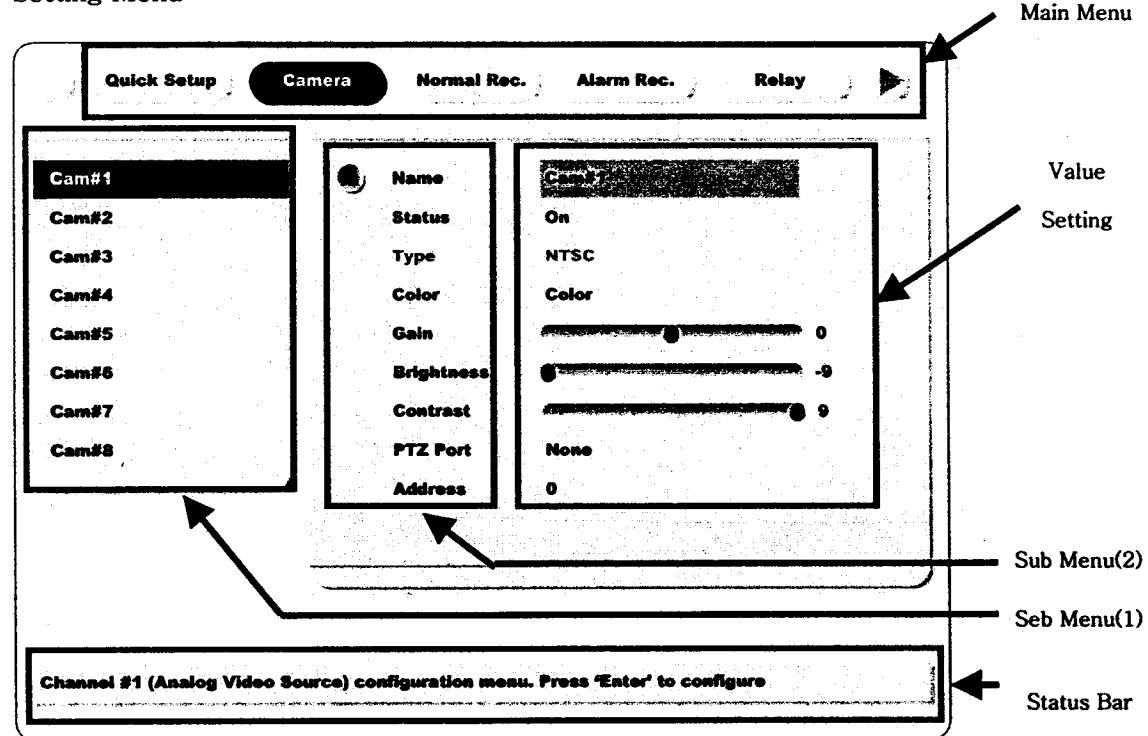
B. Dialogue for entering word

    (1) When setting value is a word, the related dialogue box is indicated.

    (2) To set a word, use direction arrow keys and number keys "0" to "9".

    (3) The matching point between horizontal and vertical bar is selecting value.

    (4) Or enter the related numbers in order of horizontal/vertical. (For example, in order to select "N", press [4] and [3] button.)

    (5) Press the [ENTER] button in order to confirm the selected value.

    (6) After setting all values, press the [Exit] button.

Dialogue for entering w

C. Set camera

Configuration (3) – Camera

1. Press the [Menu] button
2. Select "Camera" main menu and move to sub menu with pressing [Enter] button.
3. Cam#2~8 is same with Cam#1

| Cam #1 | Cam #2 | Cam #3 | Cam #4 | Cam #5 | Cam #6 | Cam #7 | Cam#8 |

Activity	On/Off toggle
Name	Dialogue for entering word
Type	"NTSC/PAL" Read Only
Color	Color/Mono toggle
Color Gain	-9~9 (19 Level) Slide bar
Bright	-9~9 (19 Level) Slide bar
Contrast	-9~9 (19 Level) Slide bar
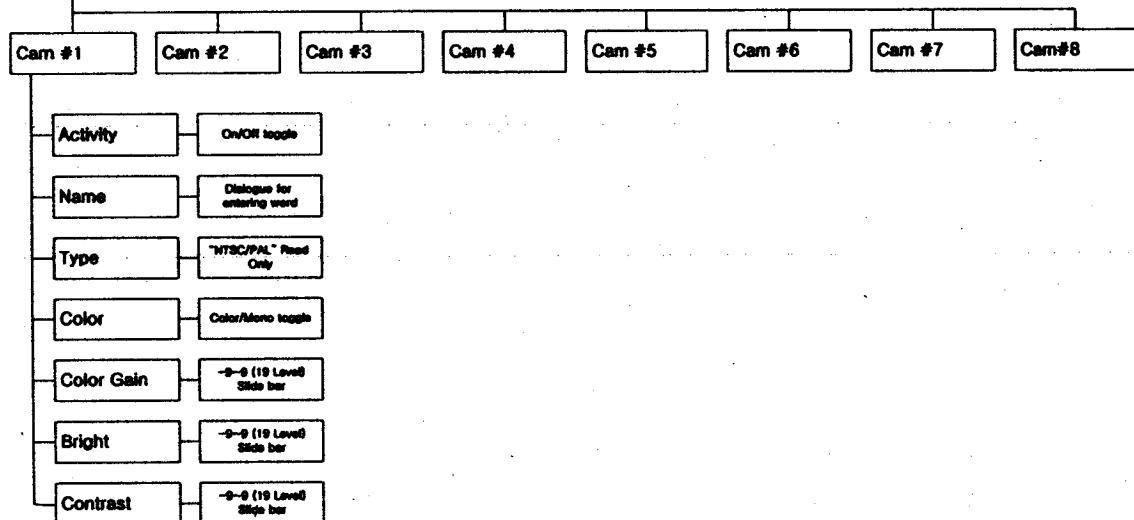
D. Set monitor

Configuratic

E. Set recording schedule

Configuration (5) - Recording Schedule

1. Press the [Menu] button
2. Select "Recording Schedule" main menu and move to sub menu with pressing [Enter] button.
3. Cam#2~8 is same with Cam#1
4. Frame Rate and Res. Quality can be configured, when "Schedule Config." is set as "Custom". In the other case, it is "Read Only".
5. Frame Rate of maximal 2 channels can be set as 30

| Cam#1 | Cam#2 | Cam#3 | Cam#4 | Cam #5 | ... | Cam #8 |

Weekday-Day

Schdeule Config	No Rec, Low, Std, High, Custom Toggle
Frame Rate	1~20,25,30 Slide bar
Resolution	90x60, 180x121, 360x243,720x243, 720x486
Quality	Very Low, Low, Std, High, Very High
Alarm Recording	On/Off toggle
Alarm Output	On/Off toggle

Weekday-Night

Schdeule Config	No Rec, Low, Std, High, Custom Toggle
Frame Rate	1~20,25,30 Slide bar
Resolution	90x60, 180x121, 360x243,720x243, 720x486
Quality	Very Low, Low, Std, High, Very High
Alarm Recording	On/Off toggle
Alarm Output	On/Off toggle

Weekend-Day

Weekend-Night

F. Set alarm

Configuration (6) – Alarm

1. Press the [Menu] button
2. Select "Alarm" main menu and move to sub menu with pressing [Enter] button.
3. Sensor 1~4 can be double setting as alarm condition
4. Output is to designate relay in case of alarm triggered status. It also can be double setting
5. Frame Rate and Res. Quality can be configured, when "Alarm Recording" is set as "Custom". In the other case, it is "Read Only".

Cam#1	Cam#2	Cam#3	Cam#4	Cam#5	Cam#6	Cam#7	Cam#8

Motion Detection	Off, Low, Std, High toggle
Sensor1	On/Off toggle
Sensor2	On/Off toggle
Sensor3	On/Off toggle
Sensor4	On/Off toggle
Output	None, Relay1~4 Combo Box

Alarm Recording	No Rec, Low, Std, High, Custom
Frame Rate	1~20,25,30 Slide bar
Resolution	90x60, 180x121, 360x243, 720x243, 720x486
Quality	Low, Std, High
Pre Alarm	No, 1~15sec Slide bar
Post Alarm	No, 1~15sec Slide bar
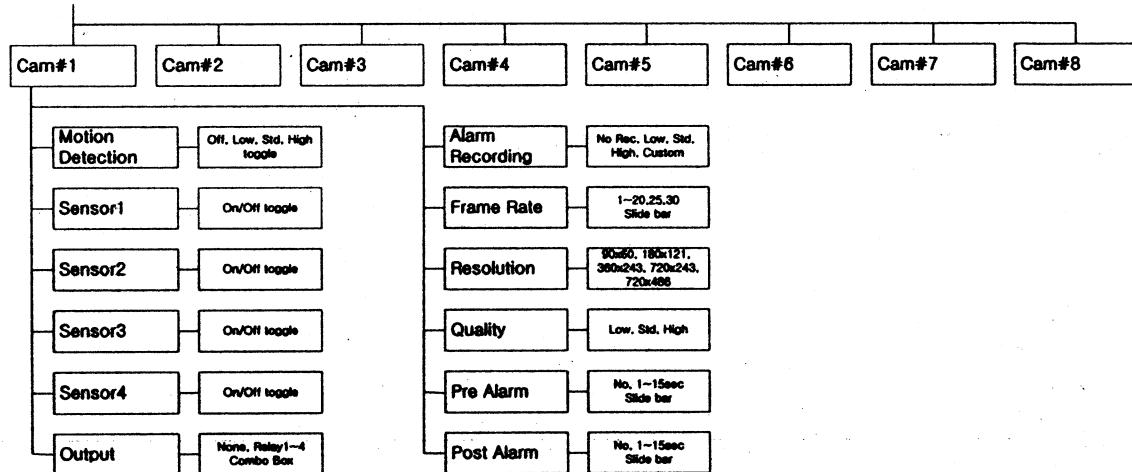
G. Set system

| Configuration (7) – System (1) |
|---|

1. Press the [Menu] button
2. Select "Alarm" main menu and move to sub menu with pressing [Enter] button.
3. Sensor 1~4 can be double setting as alarm condition
4. Output is to designate relay in case of alarm triggered status. It also can be double setting
5. Frame Rate and Res. Quality can be configured, when "Alarm Recording" is set as "Custom". In the other case, it is "Read Only".

Time		Password-User	Password-Admin		Storage Device

Date	DD/MM/YYYY
Time	HH:MM:SS
Date Formate	D/M, M/D toggle
Weekday Start	Mon~Sun
Weekday End	Mon~Sun
Day Start	HH:MM
Day End	HH:MM

Enable	Yes/No
Password	Dialogue for entering word
Re-Enter	Dialogue for entering word

AutoDeletion-Normal	Yes/No
AutoDeletion-Alarm	Yes/No
Information >>	Show summary of disks dialogue
Format >>	Format dialogue
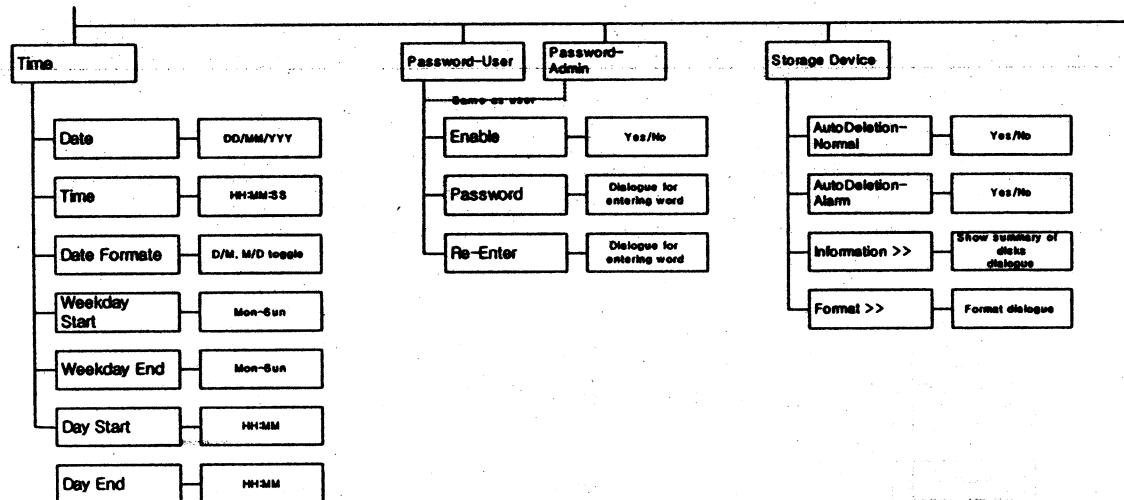
Configuration (7) – System (2)

1. Press the [Menu] button
2. Select "Alarm" main menu and move to sub menu with pressing [Enter] button.
3. Sensor 1~4 can be double setting as alarm condition
4. Output is to designate relay in case of alarm triggered status. It also can be double setting
5. Frame Rate and Res. Quality can be configured, when "Alarm Recording" is set as "Custom". In the other case, it is "Read Only".

Network

IP	DD/MM/YYY
Gateway	HH:MM:SS
Netmask	D/M, M/D toggle

Misc.

| Audio Recording | Yes/No |
| Remocon ID | Dialogue for entering word |

Serial Conf.

Cam#1~8

Device	Philips/Pelco/...
Interface	232/422/485
Baud	1200~38400
Parity	None/Even/Odd
Stop Bit	1/1.5/2
Data Bits	8
Address	0
Preset >>	Preset dialogue