

**15 INCH  
4 CHANEL DVR with LCD MONITOR  
(SecuBook 4R)**



**INSTRUCTION MANUAL**

Please read this manual thoroughly before use, and keep it handy for future reference.

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This Monitor was  
Manufactured by ISO 9001  
Certified Factory

# SAFETY INSTRUCTION

1. Read all of these instructions.
2. Save these instructions for later use.
3. Follow all warnings and instructions marked on the product.
4. Unplug this product from the wall outlet before cleaning.  
Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
5. Do not use this product near water.
6. Do not place this product on an unstable cart, stand or table.  
The product may fall, causing serious damage to the product.
7. Slots and openings in the cabinet and the back are provided for ventilation: to ensure reliable operation of the product, these openings must not be blocked by placing the product on a bed, sofa, rug or other similar surface.  
This product should never be placed near or over a heat register.  
This product should not be placed in a built-in installation unless proper ventilation is provided.
8. This product should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
9. This product is equipped with a 3 wire grounding type plug having a third(grounding) pin. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.
10. Do not allow anything to rest on the power cord.  
Do not locate this product where persons will walk on the cord.
11. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord ampere rating. Also, make sure that the total of all products plugged into the wall outlet does not exceed 10 amperes.
12. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock.  
Never spill any kind of liquid on the product.
13. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks.

# SAFETY INSTRUCTION

Refer all servicing to service personnel.

14. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions.
- A. When the power cord or plug is damaged or frayed.
  - B. If liquid has been spilled into the product.
  - C. If the product has been exposed to rain or water.
  - D. If the Product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore normal operation.
  - E. If the product has been dropped or the cabinet has been damaged.
  - F. If the product exhibits a distinct change in performance, indicating a need for service.

## CAUTION

*The power supply cord is used as the main disconnect device, ensure that the socket-outlet is located/installed near the equipment and is easily accessible.*

## ATTENTION

*Le cordon d'alimentation est utilisé comme interrupteur général. La prise de courant doit être située ou installée à proximité du matériel et être facile d'accès*

### CAUTION TO SERVICE PERSONNEL

POWER SUPPLY CORD IS USED AS MAIN POWER DISCONNECT DEVICE IN THIS PRODUCT. UNPLUG THIS PRODUCT FROM THE WALL OUTLET BEFORE REMOVING THE BACK COVER AND SERVICING

### EMISSION CHARACTERISTICS TESTED BY SEMKO

THIS PRODUCT HAS BEEN TESTED AND HAS SHOWN COMPLIANCE WITH THE NATIONAL SPECIFICATIONS SUCH AS SWEDISH MPR 1990.10.(MPR II)

# CAUTIONS

► **NEVER REMOVE THE BACK COVER**

Removal of the back cover should be carried out only by qualified personnel.

► **DO NOT USE IN HOSTILE ENVIRONMENTS**

To prevent shock or fire hazard, do not expose the unit to rain or moisture.

This unit is designed to be used in the office or home. Do not subject the unit to vibrations, dust or corrosive gases.

► **KEEP IN A WELL VENTILATED PLACE**

Ventilation holes are provided on the cabinet to prevent the temperature from rising.

Do not cover the unit or place anything on the top of unit.

► **AVOID HEAT**

Avoid placing the unit in direct sunshine or near a heating appliance.

► **TO ELIMINATE EYE FATIGUE**

Do not use the unit against a bright back ground and where sunlight or other light sources will shine directly on the monitor.

► **BE CAREFUL OF HEAVY OBJECT**

Neither the monitor itself nor any other heavy object should rest on the power cord.

Damage to a power cord can cause fire or electrical shock.

# FCC RF INTERFERENCE STATEMENT

## 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.*
- Only shielded interface cable should be used.*

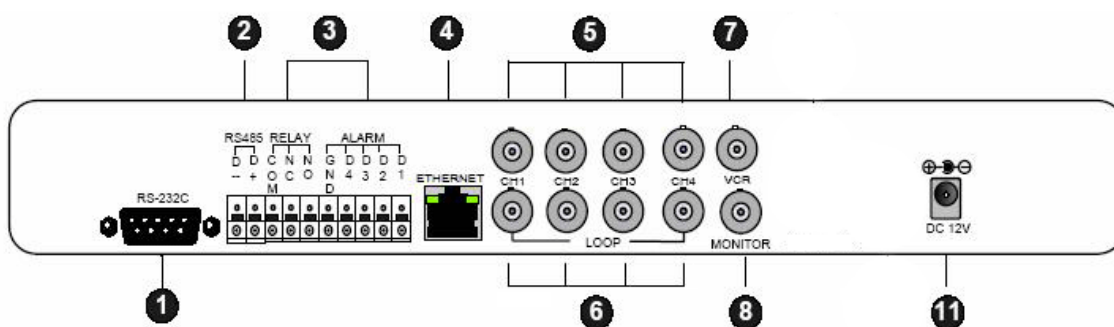
*Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.*

## ► DOC COMPLIANCE NOTICE

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the radio interference regulation of Canadian Department of communications.

# CONNECTING WITH EXTERNAL EQUIPMENT

## A. REAR PORT

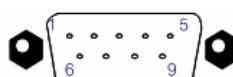


- 1 : RS-232C Port Connection
- 2 : PAN/TILT Controller
- 3 : Sensor Input/Output
- 4 : Ethernet (TCP/IP)
- 5 : Camera Connection
- 6 : Camera Loop Output
- 7 : VCR Connection
- 8 : Monitor Connection
- 11: D/C Power Connection

**NOTICE :** When connecting with other applications, be sure to turn off the system.

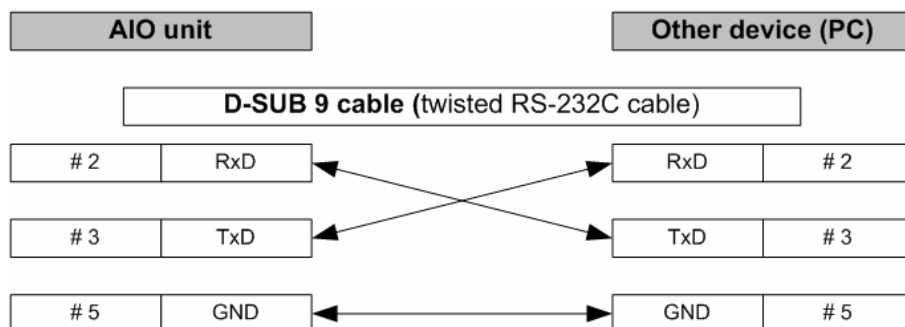
## B. Arrangement RS-232C Pin

Pin No.	Definition
1	NC
2	RxD
3	TxD
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC



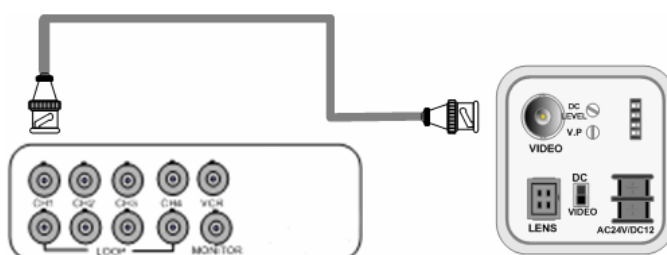
RS-232C

# CONNECTING WITH EXTERNAL EQUIPMENT



## C. CAMERA Connection

Connect to the Camera to the CAMERA INPUT on the rear panel of system



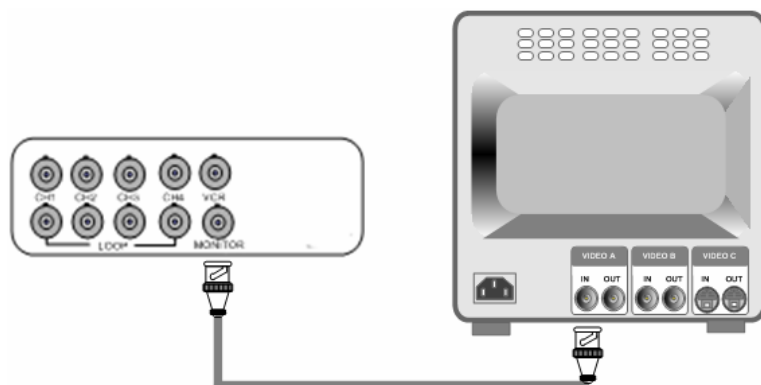
**Notice :** This AIO system automatically detects video system of camera you connected to the unit when you boot AIO system first. It is not necessary to set video system separately, and AIO system set at NTSC or PAL system automatically when you boot the system.



# CONNECTING WITH EXTERNAL EQUIPMENT

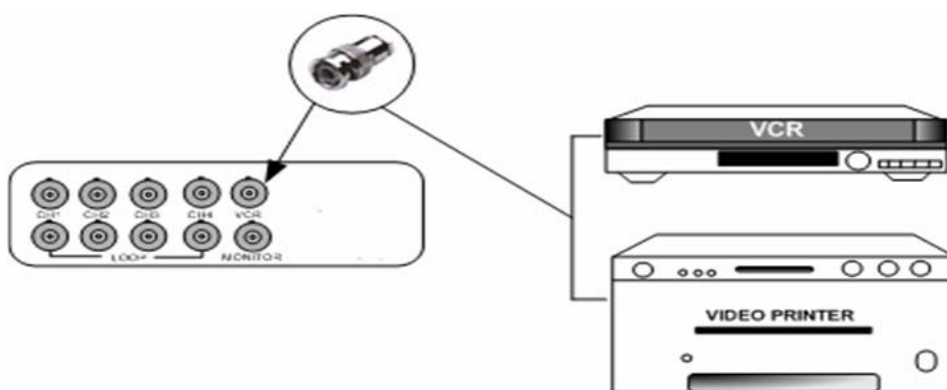
## D. MONITOR Connection (Composite Connection Method)

Connect the monitor to the MONITOR OUTPUT on the rear panel of system



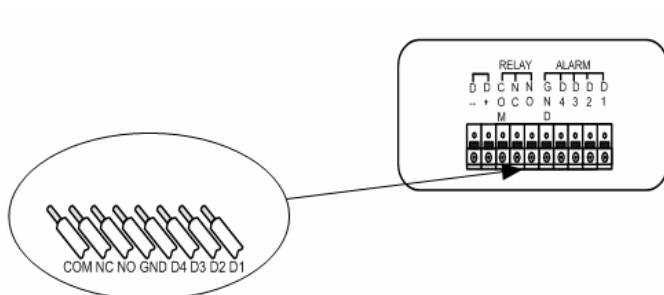
## E. VCR & VIDEO PRINTER Connection

Connect VCR or VIDEO PRINTER to VCR OUT on the Rear Panel of the system.



## F. SENSOR Connection

Connect the Sensor to the SENSOR INPUT/OUTPUT on the Rear Panel of the system



Terminal block

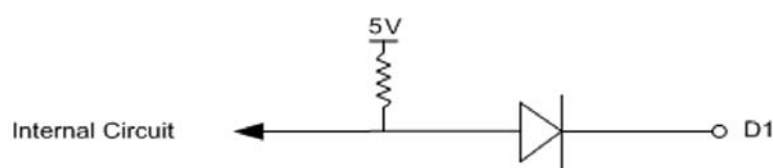
Pin 1	Alarm1
Pin 2	Alarm2
Pin 3	Alarm3
Pin 4	Alarm4
Pin 5	GND
Pin 6	NO( Normal Open )
Pin 7	NC( Normal Close )
Pin 8	COM

# CONNECTING WITH EXTERNAL EQUIPMENT

Relay output : COM+NC, COM+NO OR COM+NC+NO

Alarm input : Short-circuit between Alarm1, Alarm2, Alarm3 or Alarm4 and GND is recognized as alarm.

**NOTICE** : Sensor input is RECOGNIZED as LOW when alarm signal is on a level with GND, and it is recognized as HIGH when alarm signal is FLOATING or 5V. Following is internal circuit.



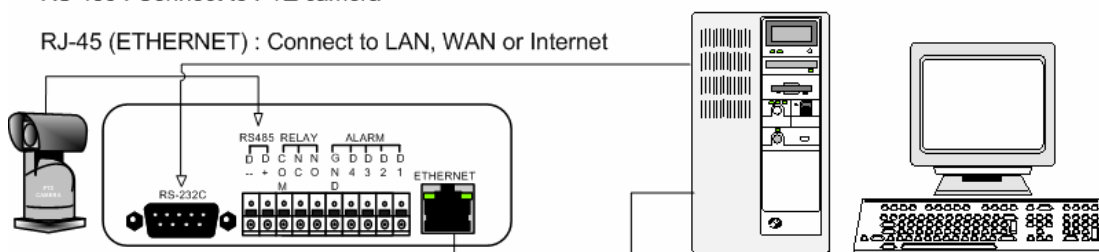
Thus, there is a danger of damage, when the sensor input goes to a Negative level or voltage higher than 5V.

## G. NETWORK Connection

RS-232C : Connect to PC to operate DVMR

RS 485 : Connect to PTZ camera

RJ-45 (ETHERNET) : Connect to LAN, WAN or Internet

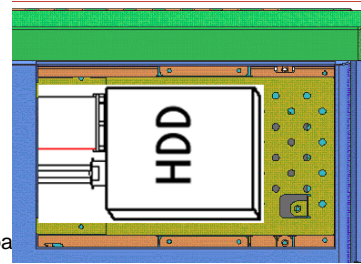


# HDD CONNECTION

## HDD Connection

Connect main board and HDD using IDE HDD cable and power cable included in the package. If you install just a unit of HDD, jumper setting of HDD must be on Master, as specified by HDD manufacturer, and you can install it.

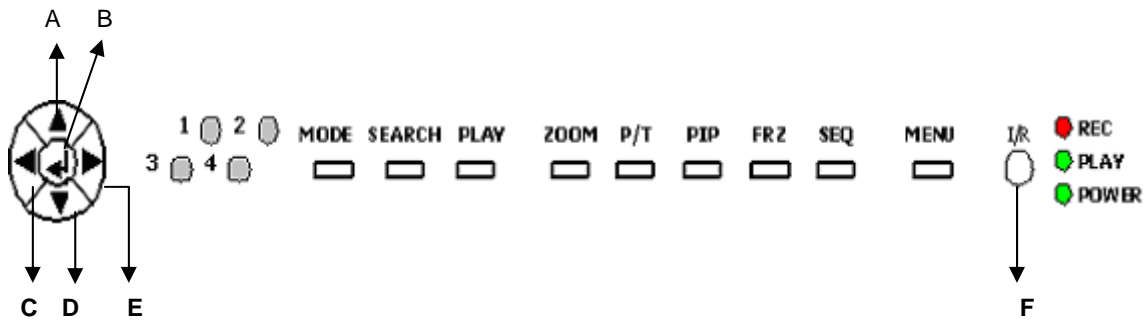
Fix HDD on the bottom of SecuBook case using screws included in the package. Screws must be inserted from outside of the bottom.



Notice : Formatting before installation is not required, because SecuBook system automatically detects HDD and formats. In the first operation after installation of HDD, first clear all data on HDD and set at FACTORY DEFAULT in SETUP menu of SecuBook system.

# CONTROLS AND FUNCTIONS

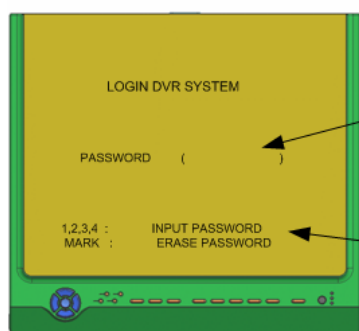
## 1. FRONT PANEL DESCRIPTION



- A, C, D, E : Direction Button
- B : 'Enter' Button – Some Functions in SETUP MODE, It used as the Select Button
- 1, 2, 3, 4 : Chooses each indicated Camera
- MODE : Changes to quarterly split screen or Full display screen
- SEARCH : Search the Recording data
- PLAY : Starting playback
- ZOOM : Press [ZOOM] button, during playback or PAUSE mode,  
the display will enlarge by 200%.
- P/T : Manages PAN/TILT CONTROLLER
- PIP : Assigns PIP (Picture in picture)
- FRZ : Display screen is paused
- SEQ : The display screen automatically rotates
- MENU : Used when changing the menu of SYSTEM SETUP. If you press [MENU] button
- F : Remote control Receiver
- LED Lamps : Represent status of operation

# CONTROLS AND FUNCTIONS

## 2. LOG-IN



1  
Enter the password  
default P/W : 1

2  
Input or modify

- 1) Press [MENU] button to enter the system menu after starting the system.
- 2) LOGIN DVR SYSTEM window appears as shown on the left.
- 3) Use [1 / 2 / 3 / 4] button to enter password that has 1 to 8 numbers.
- 4) Use [PIP] button to change.

5) After entering the password, press [MENU] button to go back to the system menu.

▶ If password entered matches previously set number, "ADMIN GRADE LOGIN OK" message appears.

If password entered does not match previously set number "CURRENT PW INPUT ERROR" message appears.

▶ Factory default password set by manufacturer is as below.

The system is equipped with two passwords.

ADMIN (Administrator) : "1"	USER (User) : "2"
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**NOTICE** : To protect hard drive from damaged, turn off the power switch of SecuBook unit after you first press [MENU] button. If you press [MENU] button, SecuBook unit stops recording, and HDD head is not in the process of writing.

**NOTICE** : We recommend you to enter your own password as per procedure in 25 - 2 (page.28)

to change the password.

**NOTICE** : Be sure to memorize the changed password.

**NOTICE** : When logged into USER MODE, only DISPLAY SETUP and TIME/DATE TYPE SETUP is possible.

# CONTROLS AND FUNCTIONS

## 3. RECORD

### A. PLAY

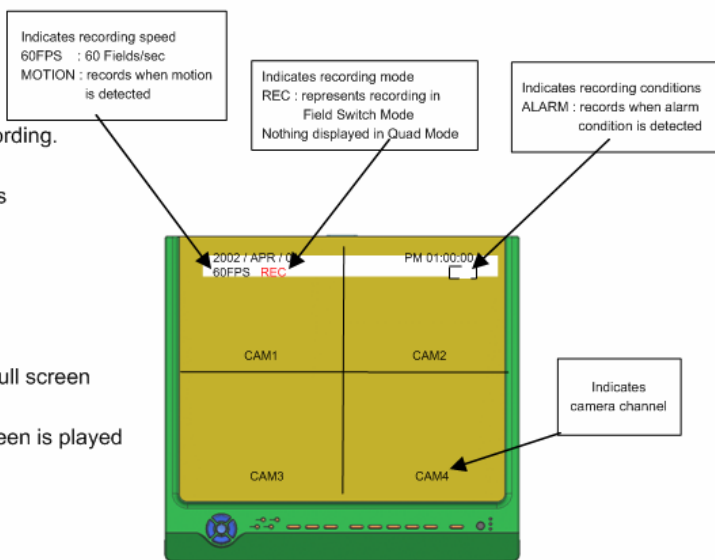
Changes to Playback Mode from Recording.

Refer to Playback part(PAGE.16)of this manual.

### B. MODE

When [MODE] button is pressed, the full screen of each channel and quarterly split screen is played by turns.

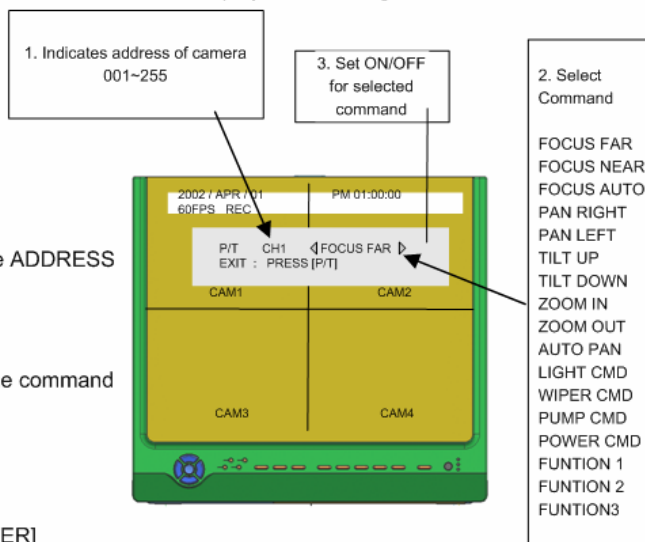
With [1 / 2 / 3 / 4] button, select full screen of each camera.



Display of Recording Mode

### 4. P/T

- 1) Press [P/T] button.
- 2) Use [UP]/[DOWN] button to choose the ADDRESS of the P/T camera.
- 3) Use [LEFT]/[RIGHT] button to select the command for P/T camera you want to transmit.
- 4) With [ENTER] button, select ON/OFF.  
In most of cases, while you press [ENTER] button, it is ON, and OFF while not pressed.
- 5) Press [P/T] button to come back to recording screen



Display of PAN/TILT Control  
(Ex: DRX-502A model)

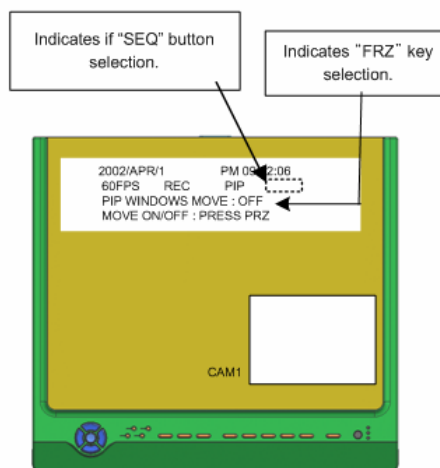
# CONTROLS AND FUNCTIONS

## 5. PICTURE IN PICTURE (PIP)

- 1) Use [1 / 2 / 3 / 4] button to select a camera and set a full screen.

NOTICE : PIP is not available in quarterly split screen.

- 2) Press [PIP] button.
- 3) With [UP]/[DOWN] or [1 / 2 / 3 / 4] button, select the camera channel in full screen, and with [LEFT]/[RIGHT] button select the channel of smaller screen.
- 4) Press [SEQ] button to make the image in smaller screen rotate.



Display of PICTURE IN PICTURE

- To change the location of smaller screen, press [FRZ] button and use direction button to move to desired location.

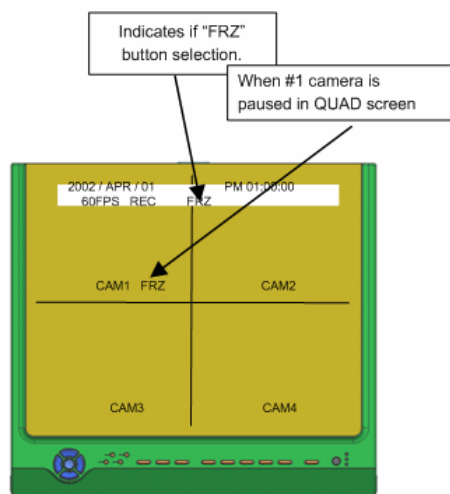
## 6. FRZ

- 1) Live full screen pauses when [FRZ] button is pressed.
- 2) To pause quarterly split screen, press [FRZ] button, and with [1 / 2 / 3 / 4] button select channel. On the right of the camera name, "FRZ" message appears and the LIVE screen of that channel will pause. When pressed once more, it will come back to LIVE screen.

NOTICE : When [FRZ] selected,

[1 / 2 / 3 / 4] button or [MODE] button do not work.

To move to full screen of each camera, press [FRZ] button once more to end Freeze mode.



Pause Screen

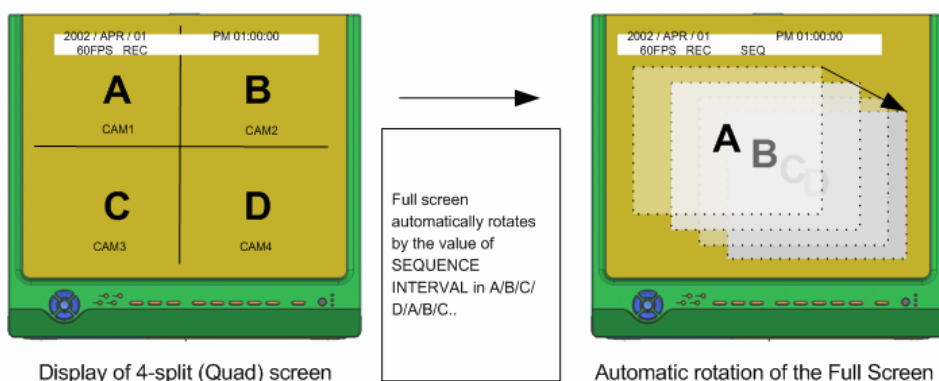
# CONTROLS AND FUNCTIONS

## 7. SEQ

- 1) In LIVE full screen, press button to make picture from each channel rotate.
- 2) It does not operate in quarterly split screen.
- 3) During automatic rotation, press [SEQ] button to stop automatic rotation.
- 4) During automatic rotation, press [MODE] button to stop automatic rotation and move to quarterly split screen.

► To change the time interval of the automatic rotation, change the value of SEQUENCE INTERVAL as per procedure

in 19 - ⑦ (PAGE.19). It is possible to select between 1 second to 99 seconds.



## 8. Sensor Recording

- 1) When there is sensor input, the recording starts.
- 2) It records for preset period of time  
For detail setup, refer to RECORD SETUP : REC MODE SETUP in 23 - ③ (PAGE.26) for TIME+ALARM and MOTION+ALARM and ALARM SETUP: ALARM DURATION in 26 - ① (PAGE.23) for Time setup.

## 9. Scheduled Recording

Records by date and by day of the week.

Refer to MISCELLANEOUS SETUP ; SCHEDULE REC SETUP in 25 - ③ (PAGE.29) for detail setup.

## 10. Recording by MOTION DETECTION

Refer to ALARM/MOTION SETUP 22 (PAGE.23~25).

## 11. NOTICE

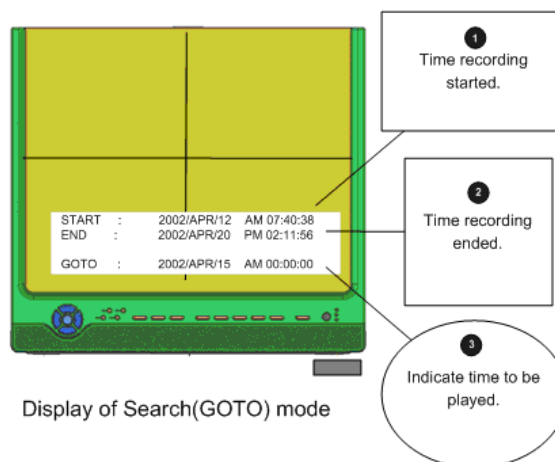
- 1) Recording is stopped during SYSTEM SETUP.
- 2) Recording is stopped during playback, or search in playback mode.
- 3) Recording is not possible if no camera is connected.



# CONTROLS AND FUNCTIONS

## 11. Playback setup

- 1) Press [search] button to begin playback.
- 2) Display screen as shown on the right will appear
- 3) Press [PLAY] button again to start playback from  
START picture.  
(To start from a specific time, first set the  
GO TO time before press [PLAY] button.)
- 4) To come back to recording mode.  
press [PLAY] button.



## 13. GOTO time setting

- 1) At ❸, use [LEFT]/[RIGHT] button to choose the date or time of GO TO.
- 2) Use [UP]/[DOWN] button, set desired time.
- 3) Press [PLAY] button to replay from the GO TO time.

**NOTICE :** During playback or setting GO TO time, recording is stopped

**NOTICE :** When value that is out of the range of start and end is entered, it starts from START time

**NOTICE :** When value is in the range of START and END, but there is no recorded pictures at the set time,  
it moves to the closest time of the recorded pictures.

## 14. Pausing and single frame advanced

- 1) During playback, press [FRZ] button to pause. (Will replay when pressed once more)
- 2) After pressing [FRZ] , press [SEQ] button and use [LEFT]/[RIGHT] button to advance single frame to the right or left.

# CONTROLS AND FUNCTIONS

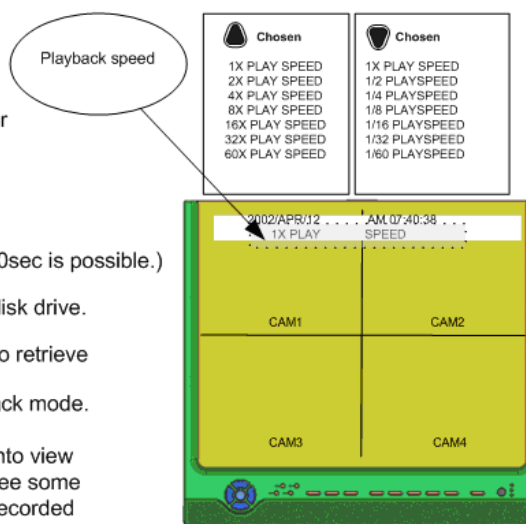
## 15. Playback Speed Setup (Only Remote Control)

- 1) During playback , press [UP]/[DOWN] button
  - 2) Display screen will appear as on the right.
  - 3) Use [LEFT]/[RIGHT] button to move forward (FF) or backward (REW).
  - 4) Use [UP]/[DOWN] button to select the speed rate.
- (High speed up to x60 and slow speed up to 1field/60sec is possible.)

► We recommend you to install 7200rpm EIDE hard disk drive.

5400rpm EIDE hard disk drive is not good enough to retrieve recorded data in high speed and slow speed playback mode.

- During playback at 60x speed, blue screen comes into view instantaneously once in a while and you could not see some pictures at that moment even though all they were recorded correctly, due to limitation in speed of reading data on a hard drive, and it is not a critical error in operation of SecuBook unit. To see pictures you could not see, just go back for some seconds and replay at a little lower speed than before.



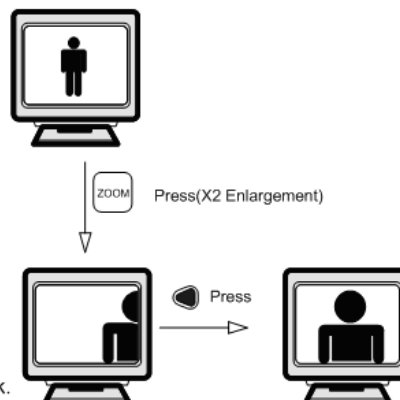
Display of PLAYBACK SPEED SETUP

## 16. Display Enlargement.

- 1) Choose camera by pressing [1 / 2 / 3 / 4] button.
- 2) Press [ZOOM] button, during Playback or PAUSE mode.
- 3) The display will enlarge by 200%
- 4) Use direction button to move the area enlarged.
- 5) Press [ZOOM] to go back to Playback or FRZ mode.

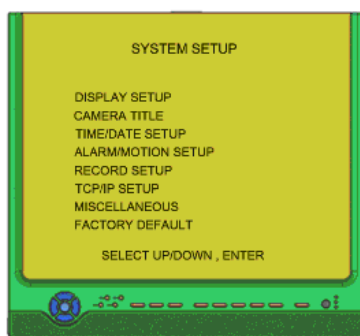
**NOTICE :** Execute in FULL SCREEN of each channel.

When [SEQ] button is pressed, ZOOM does not work.



# CONTROLS AND FUNCTIONS

## 17. Basic Operation



Display of SYSTEM SETUP

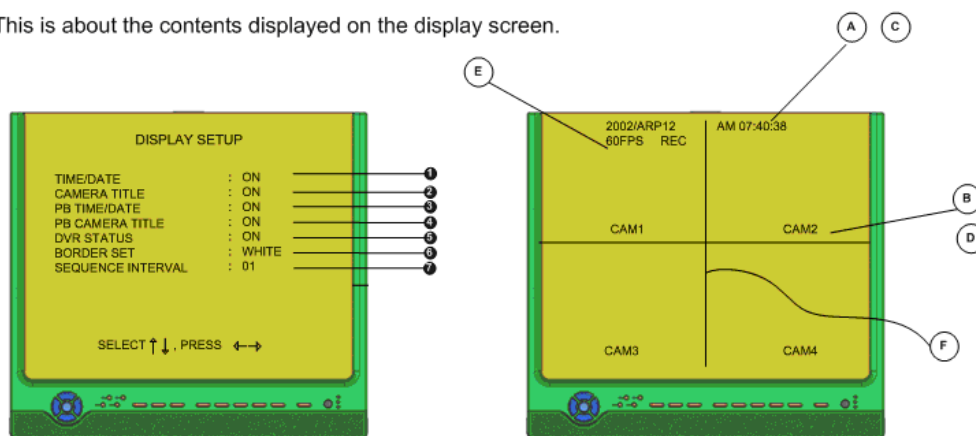
- 1) Press [MENU] button.
- 2) Log into the system by entering the password with [1 / 2 / 3 / 4] button and press [MENU] button to enter SETUP MENU.
- 2) Use [UP]/[DOWN] button to select setup item.
- 3) Press [ENTER] button to enter sub-menu of selected SETUP.
- 4) Press sub-menu item with [UP]/[DOWN] button, and change the value with [LEFT]/[RIGHT] button.
- 5) Press [ENTER] button to forward [MENU] button to go backward.  
[ENTER] button enables to enter and [MENU] button to go back.
- 6) To go back to the very first SETUP condition recommended by manufacturer, set at FACTORY DEFAULT.  
You can set at FACTORY DEFAULT all in one (as a whole) or group by group. When cursor is at ALL SETUP, you can set at ON or OFF by pressing [ENTER] button. If you set ALL SETUP at ON, all groups of settings are SET as per FACTORY DEFAULT recommended by manufacturer. If you set ALL SETUP at OFF, then you are requested to set each group of settings separately one by one, ON or OFF, and groups of settings set at ON shall be reset whenever you set at FACTORY DEFAULT. To reset, you have to select ALL SET or each group of settings (ON or OFF), and then move to RESET NOW and press [ENTER].
  - ▷ Items remain unchanged when FACTORY DEFAULT is selected.

1. value of TIME/DATE SETUP	2. Date stored on HDD
3. Marked image (Internal backup)	4. ADMIN password
5. ALARM LIST SETUP	
  - ▷ We recommend users to set at FACTORY DEFAULT in the first operation, and when you replaced EPROM for updating SecuBook program or replaced HDD.

# CONTROLS AND FUNCTIONS

## 18. DISPLAY SETUP

This is about the contents displayed on the display screen.

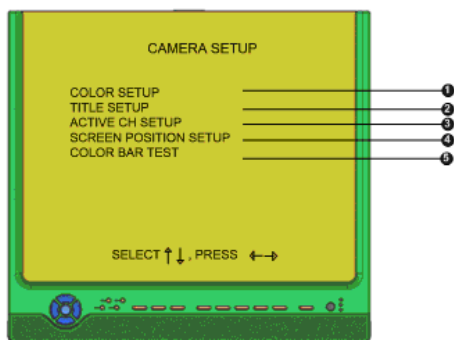


Display of DISPLAY SETUP

- 1 TIME/DATE : (A) Date and time is indicated on LIVE screen.
  - 2 CAMERA TITLE : Camera TITLE (B) is indicated on LIVE screen.
  - 3 PB TIME/DATE : On Playback screen, (C) Date and Time is indicated.
  - 4 PB CAMERA TITLE : Camera TITLE (D) is indicated on the Replay SCREEN.
  - 5 DVR STATUS : (E) indicates status of operation, such as REC/REPLAY.
  - 6 BORDER SET : Changes the color of the border (F)
- WHITE/ BLACK
- 7 SEQUENCE INTERVAL : Sets rotating time interval of pictures . In full screen in live mode or playback mode, pictures are rotating in a certain time interval when you press [SEQ] button, and SEQUENCE INTERVAL is for it.  
( Time interval from 1 second to 99 seconds)

# CONTROLS AND FUNCTIONS

## 19. CAMERA SETUP



Display of Camera Setup



Display of CAMERA COLOR SETUP

### 1 COLOR SETUP : Adjust Camera Image

CH NUMBER	: Select camera	
BRIGHTNESS	: Adjust screen brightness	(-31~ +32)
CONTRAST	: Adjust color contrast	(-31~ +32)
SATURATION	: Adjust color saturation	(-20~ +32)
HUE	: Adjust color hue	(-31~ +32)
GAIN	: Adjust image signal level	(-31~ +32)

► Right adjustment of each element in COLOR setup will increase picture quarterly displayed.

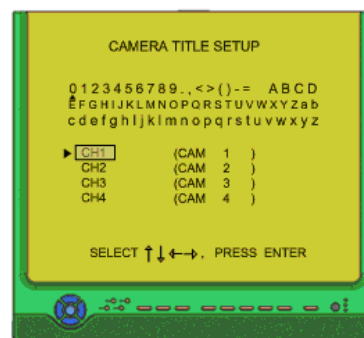
We recommend you to adjust each element of COLOR SETUP for cameras and monitor to be connected to the SecuBook unit, for better appearance.

### 2 TITLE SETUP : Input TITLE of each camera

1) Use [LEFT]/[RIGHT] button to select CHANNEL and press [ENTER] button

2) Go into CHANNEL content and use [LEFT]/[RIGHT] button to move to item to be changed and use [UP]/[DOWN] button to change the letters.

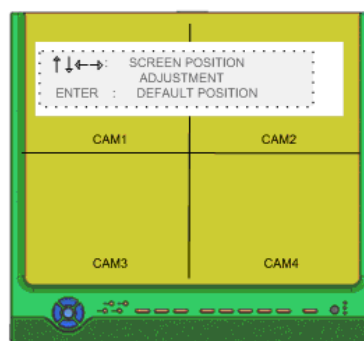
When modification is finished, press [MENU] button to come back to the MAIN MENU.



# CONTROLS AND FUNCTIONS



Display of CAMERA ACTIVE Setup



Display of Screen Position Adjustment

## 3 ACTIVE CH SETUP :

With direction button, move to item to be changed, and press [ENTER] button to select ON/OFF.

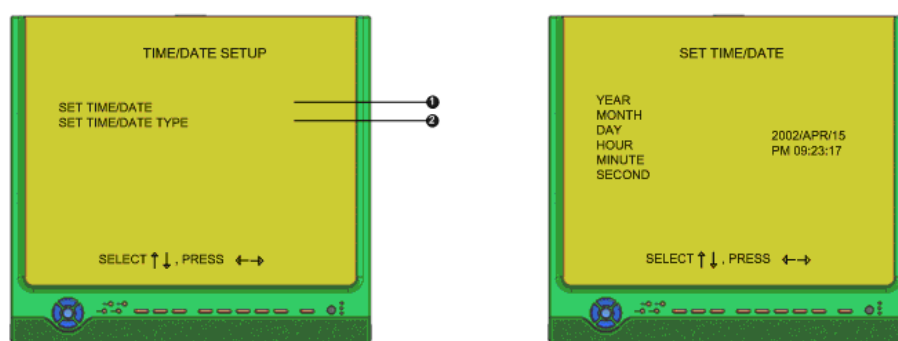
1. STATUS : In normal cable condition it is indicated as ACTIVE, and when the cable is disconnected or has problem, it is indicated as LOSS.
2. LIVE : Decides whether to show LIVE screen image or not.
3. REC : Decides whether to record relevant channel or not.

## 4 SCREEN POSITION SETUP

Use direction button to move the full screen according to the user's needs.

# CONTROLS AND FUNCTIONS

## 20. TIME/DATE SETUP



Display of TIME/DATE SETUP

- 1 SET TIME/DATE : Can set year/month/time/minute/second.  
Use [UP]/[DOWN] button to assign Year/Month/Time/Minute/Second and use [LEFT]/[RIGHT] button to change the value.

- 2 SET the notation of TIME/DATE :

### 1) HOUR DISPLAY :

Changes to AM/PM or 24hour time indication

### 2) DATE DISPLAY :

Converts into Asian type/American type/European type

### 3) MONTH DISPLAY :

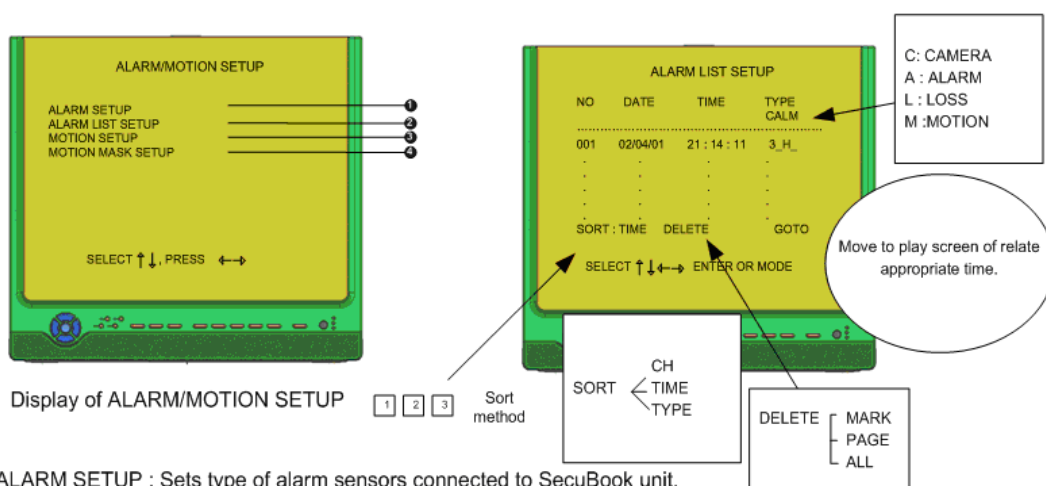
Month indication is changed to English or Number



Display of Time/Date TYPE

# CONTROLS AND FUNCTIONS

## 21. ALARM/MOTION SETUP



- ❶ **ALARM SETUP** : Sets type of alarm sensors connected to SecuBook unit.

OFF : No alarm sensor is connected.

NC : Normal Closed alarm sensor. When an event happens, Contact is opened.

NO : Normal Open alarm sensor. When an event happens, Contact is closed.

ALARM DURATION : Duration of recording, when an ALARM is activated.

SELECT LIST TYPE : Select type of event to be enlisted in the event list. "A" indicates Alarm, "L" indicates Loss, and "M" indicates Motion. You can select NONE if you do not want to have event list, and ALM if you want all of Alarm, Loss and Motion are enlisted in event list, by pressing [LEFT] and [RIGHT] button.



- ❷ **ALARM LIST SETUP** : Shows list of alarms up to 400. If total alarm exceeds 400, it overwrites from the beginning. Alarm list is very helpful to manage SecuBook system.

1) With [LEFT]/[RIGHT] button, select SORT, DELETE or GO TO.

2) SORT

Press [ENTER] button to select submenu of SORT ,that are CH ,TIME and TYPE.

1) CH : Sort by CHANNEL    2) TIME : Sort by TIME    3) TYPE : Sort by TYPE

3) DELETE

Press [ENTER] button when DELETE is highlighted, and select MARK, PAGE or ALL using [LEFT]/[RIGHT] button and press [ENTER] button.

1) MARK : Deletes marked item in the list.



# CONTROLS AND FUNCTIONS

2) PAGE : Deletes current PAGE.

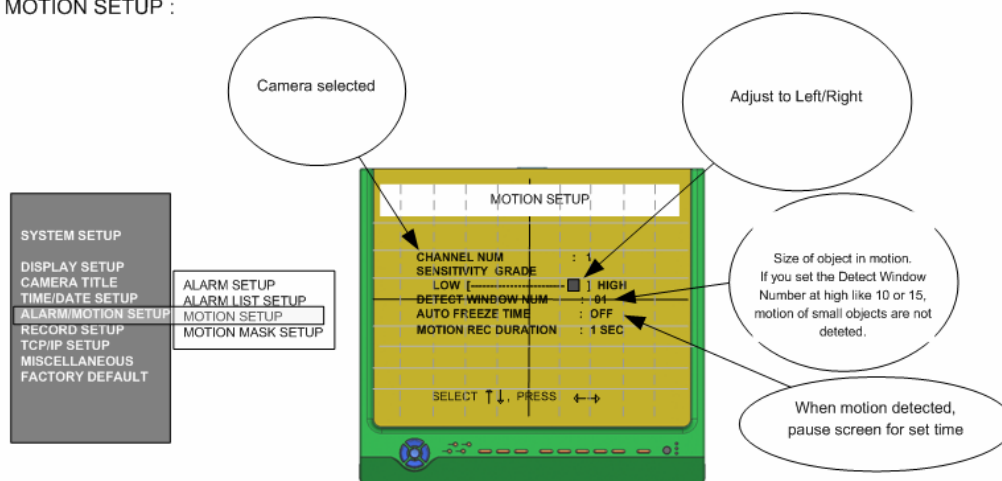
3) ALL : Deletes ALL.

▶ Move to alarm number in the list using [UP]/[DOWN] button, and press [MODE] button to mark “\*”.

4) GOTO : Starts playback from the marked item in the list.

▶ Move to an item in the list using [UP]/[DOWN] button, and press [MODE] button to mark.

## 3 MOTION SETUP :



CHANNEL NUM : Selected camera number

SENSITIVITY : Adjusts motion Detection Sensitivity. (Not Sensitive  $\longleftrightarrow$  Sensitive)

DETECT WINDOW NUM : Detects moving objects bigger than DETECT WINDOW NUM.

Can choose from 1 to 20. If DETECT WINDOW NUM value is 5, motion detections is activated only in case 5 cells are simultaneously detected.

AUTO FREEZE TIME : When MOTION is detected, the screen freezes for set time automatically.

Not to use this functionality, set at OFF.

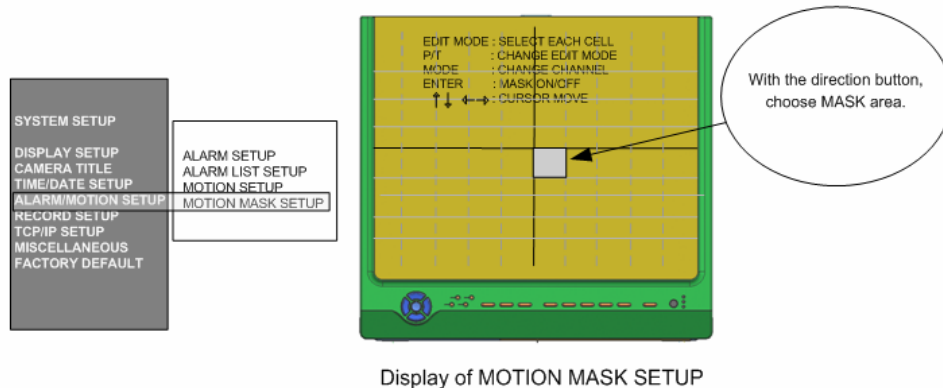
Setup Time : 1,2,3,5,10 SEC

MOTION REC DURATION : Sets duration of recording when a motion is detected.

Set value from 1 sec to 3 minutes according to frequency of motion, and FACTORY DEFAULT value is 1 sec.

# CONTROLS AND FUNCTIONS

## 4 MOTION MASK SETUP : Set detection area.



Display of MOTION MASK SETUP

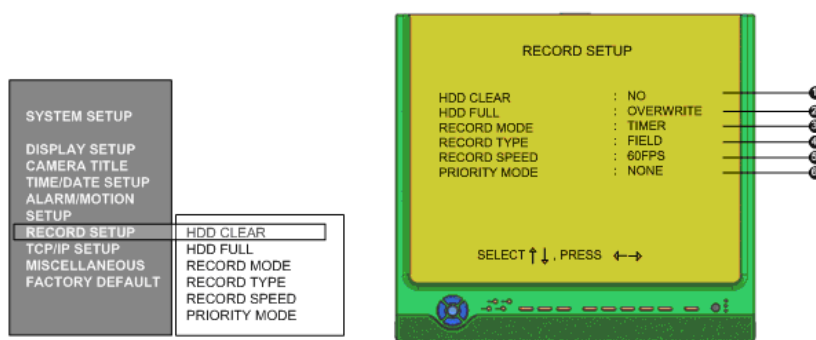
- 1) Press [P/T] button to choose desired EDIT mode.
- 2) Use [LEFT]/[RIGHT] button to assign BLOCK, and press [ENTER] button to set.
- 3) MASK area in green color is detection area, and the rest is no detection area.
- 4) Detected area is indicated in Green, and not detected area is indicated as colorless.
- 5) With [MODE] button, select channel (1,2,3,4,quad) to set for each camera.

Setup is possible only on the Full screen.

- ▷ SELECT VER LINE : Select all in a vertical line.
- ▷ CLEAR VER LINE : Clear all in a vertical line.
- ▷ SELECT HOR LINE : Select all in a horizontal line.
- ▷ CLEAR HOR LINE : Clear all in a horizontal line.
- ▷ SELECT BLOCK : Select by BLOCK. When [ENTER] button is pressed, [START] is displayed.
- ▷ CLEAR BLOCK : Clear the BLOCK. Then select blocks using direction button.
- ▷ SELECT ALL CELLS : Select all. And press [ENTER] button to set.
- ▷ CLEAR ALL CELLS : Clear all.

# CONTROLS AND FUNCTIONS

## 22. RECORD SETUP



Display of RECORD SETUP

- 1** HDD CLEAR : If YES is selected, it deletes content of the HDD.

**Notice** : All contents of the HDD is deleted and cannot be restored.

As times go by, HDDs in a SecuBook unit will have bad sectors one after the other. Pictures to be recorded in bad sectors shall be damaged, and you will see incomplete pictures whenever you replay. However, our SecuBook unit operates normally even though there is some bad sectors in hard disk drives.
- 2** HDD FULL : Select OVERWRITE or STOP RECORD. If OVERWRITE is selected, it delete previous contents on HDD to overwrite when HDD is full.
- 3** RECORD MODE

TIMER : Records by time.

TIMER+ALARM : Records by time or when the ALARM comes in. (POST-ALARM Functionality)

MOTION : Records only when MOTION is detected.

MOTION+ALARM : Records by MOTION or when the ALARM comes in.
- 4** RECORD TYPE

FIELD : Records images from each camera in rotation

60 fields/sec at 720X240 resolution

Selected for higher resolution recording.
- 5** RECORD SPEED : Adjusts recording frame rate : 0.1 indicates 1 field per 10 seconds.  
(60/30/15/10/5/2/1/0.5/0.2/0.1 FPS)
- 6** PRIORITY MODE : Assigns recording priority of a specific channel.

NONE : Each of 1,2,3,4 does not have priority.

1 : Gives priority to #1 camera, and records in the sequence of 1-2-1-3-1-4-1-2....

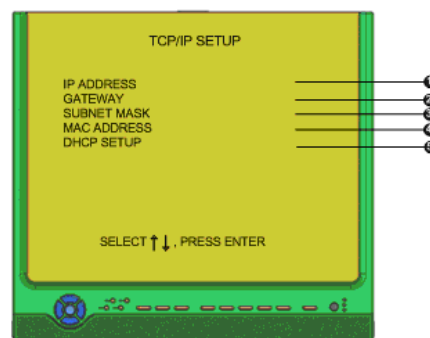
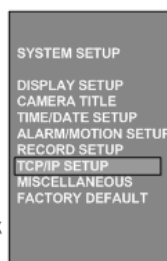
1,2 : Gives priority to #1 and #2 cameras, and records in the sequence of 1-2-3-1-2-4-1-2-3.

# CONTROLS AND FUNCTIONS

## 23. TCP/IP SETUP

TCP/IP option of this SecuBook system enables user to see live pictures and recorded pictures via internet line, far apart from SecuBook unit. To see live pictures or recorded pictures of SecuBook, users must input IP address, Gateway, and Subnet mask in TCP/IP SETUP in SecuBook first, and then input IP, PORT number and PASSWOR(ADMIN password in SecuBook unit) in Remote Viewer Program installed on client PC. For detail procedure for installing Remote Viewer Program and setting up, refer to manual for Remote Viewer program included in the package.

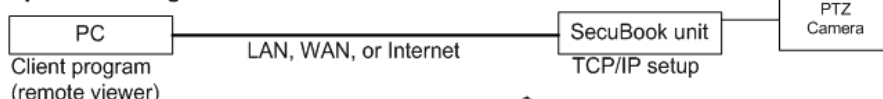
- 1 IP ADDRESS : Enter numbers using direction buttons and press [MENU] button.
- 2 GATEWAY : Enter numbers using direction buttons and press [MENU] button.
- 3 SUBNET MASK : Enter numbers using direction buttons and press [MENU] button.
- 4 MAC ADDRESS : It is unique ID number provided by the manufacturer, and the user should not change under any condition.
- 5 DHCP SETUP : In case you connect SecuBook unit to LAN network under router/Gateway/IP sharer which has DHCP server function, set DHCP SETUP at DHCP, and SecuBook unit automatically gets IP data automatically during the process of booting.



TCP/IP SETUP

In case you connect SecuBook unit to leased line with static IP or Router/Gateway connected (A)DSL line (with static IP or dynamic IP), you are requested to set DHCP at MANUAL and input IP data manually. For details, refer to Remote Viewer manual.

### 1) Concept of accessing to SecuBook unit via IP network

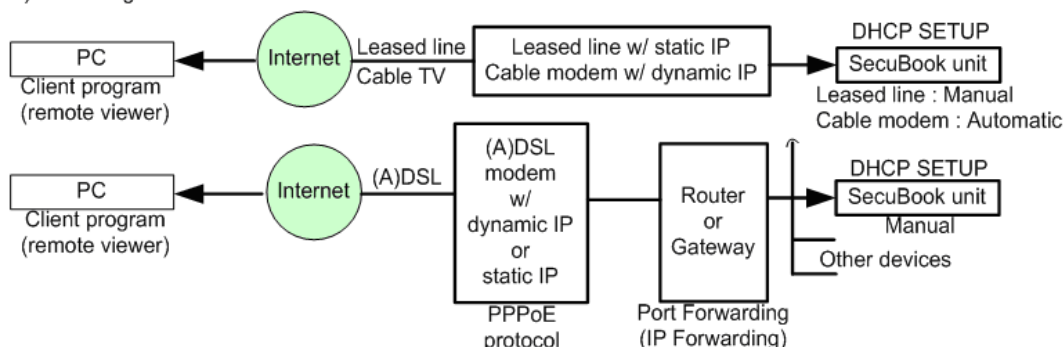


### 2) DHCP SETUP according to condition of IP network

#### a) Accessing to SecuBook unit in the same Intranet(LAN)



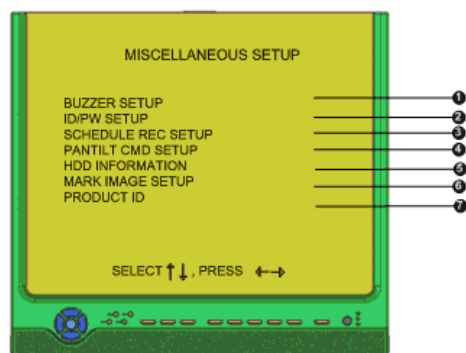
#### b) Accessing to SecuBook unit via Internet line



For details of TCP/IP SETUP in SecuBook unit and PC, refer to "Remote Viewer manual" included in the package.

# CONTROLS AND FUNCTIONS

## 24. MISCELLANEOUS SETUP

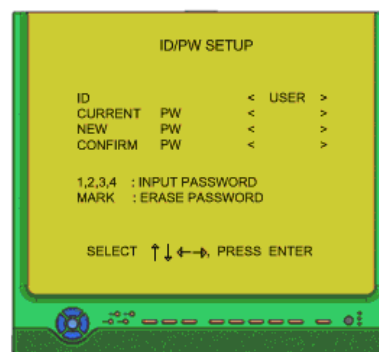
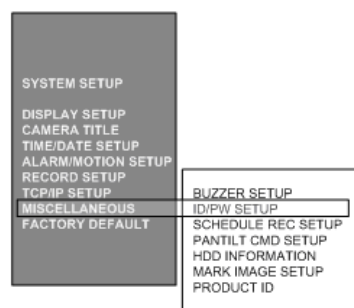


BUZZER SETUP is available for each group as follows.  
 SYSTEM BUZZER  
 BUTTON BUZZER  
 ALARM BUZZER  
 MOTION BUZZER  
 LOSS BUZZER

You can set each group of BUZZER independently and BUZZER is activated just in case you set at ON in corresponding group of BUZZER SETUP.

Display of MISCELLANEOUS SETUP

- 1 BUZZER SETUP : Sets different kinds of BUZZER ON/OFF.
- 2 ID/PW SETUP : Sets User ID and PASSWORD.

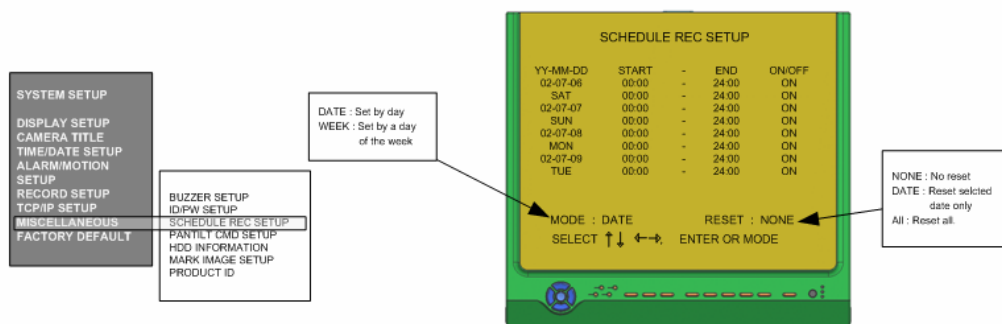


Display of ID/PW SETUP

- 1) With [UP]/[DOWN] button, select item to be changed, and press [ENTER] button to edit.
- 2) With [LEFT]/[RIGHT] button, move to wanted location and use [UP]/[DOWN] button to make Selection.
- 3) Press [ENTER] button after every SETUP and to be ready for next SETUP item.
- 4) After entering current password, enter new password and enter new password once more to verify.

# CONTROLS AND FUNCTIONS

## 3 SCHEDULE REC SETUP :



Display of SCHEDULE REC SETUP

Records according to schedule by day or a day of the week. Two recording time spans can be set for a day and a day of the week respectively. In total, 4 recording time spans can be set in a day. SecuBook system records just as you set if you set SCHEDULE REC SETUP, and SecuBook system records 24 hours a day if you do not set SCHEDULE REC SETUP.

### A. Scheduled Recording for a day:

- 1) Press ENTER button to enter into SCHEDULE REC SETUP menu. In the sub-menu, you are requested to select MODE or RESET. To first set up, select DATE or WEEK by pressing [ENTER] button.

- 3) Set recording time for START and END with [ENTER] button. Recording time increases by 30 minutes whenever [ENTER] button is pressed.

- 4) After set START and END time for a day and set ON/OFF using [ENTER] button.

- 5) After set all data, press [MODE] button once more to memorize settings you set in the system.

- 6) RESET is used to delete previously set recording schedule.

Select DATE, and move to the date by pressing [MODE] button, and press [ENTER] to delete.

ALL deletes all recording schedule.

(NONE : Does not reset      DATE : deletes only selected date      ALL : deletes all)

- 7) When all input is ended, press [MENU] button to come back to SCHEDULE REC SETUP.

**NOTICE :** To move the cursor in SCHEDULE RECORD SETUP menu , RESET should be set at NONE.

### B. Scheduled recording by a day of the week :

Recording is activated on a day of the week at the time set in advance. To set schedule for a day of the week, first select WEEK in MODE of SCHEDULE REC SETUP by pressing [ENTER] button.

Set recording time for each day of the week as the procedure for Scheduled Recording for a day.

# CONTROLS AND FUNCTIONS

01:00-03:00 ON  
04:00-05:00 ON

Just record from 1 to 3 and from 4 to 5, and does not record for the rest hours.

01:00-03:00 OFF  
04:00-05:00 OFF

Not record from 1 to 3 and from 4 to 5, and records for the rest hours.

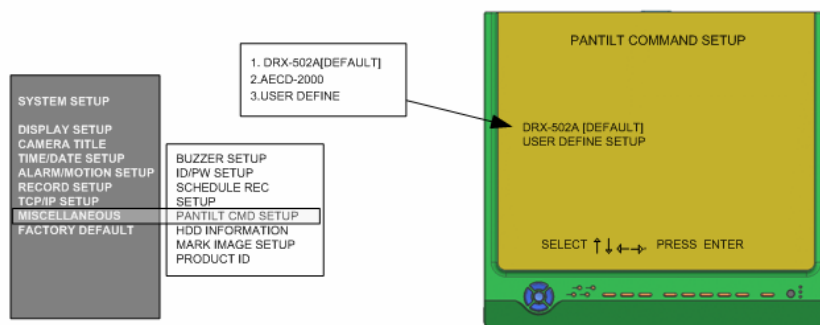
01:00-03:00 ON  
04:00-05:00 OFF

Just record from 1 to 3 (When both ON and OFF are set, priority is on ON.)

## 3) NOTE for scheduled recording :

When scheduled recording is set, SecuBook unit does not record before the set time. It only starts recording at START time and ends at END time.

- 4) PANTILT COMMAND SETUP :** When PTZ camera whose protocol is already incorporated into this SecuBook system (Default PTZ camera) is connected to this SecuBook, just select model of PTZ camera in PANTILT COMMAND SETUP. If user want to connect PTZ camera which is not one of Default PTZ camera, users must input protocols of PTZ camera or speed dome camera by themselves in USER DEFINE SETUP. For detail procedure, refer to manual for incorporating protocol of PTZ camera into SecuBook system.



Procedure to control PTZ camera while you see live picture

Display of PANTILT COMMAND

1. Default PTZ camera : First select PTZ camera model connected to SecuBook unit in the PANTILT COMMAND SETUP menu. In live view mode, press [P/T] button and set CAM (Starts from 000) at camera ID which is set on PTZ camera (DIP switch on PTZ camera) before you connect it to SecuBook unit. Then select command you want to execute using [LEFT] and [RIGHT] buttons. While you press [PLAY] button, command you selected is executed.
2. USER DEFINE : In case you input protocols of PTZ camera which is not one of Default cameras, select USER DEFINE in PANTILT COMMAND SETUP. Then press [P/T] button and set CAM (Ranges from 001 to 004) at any one from 001 to 004. CAM number must be the same as CH number which you set when you input protocol of PTZ camera in USER DEFINE. Using [LEFT] and [RIGHT] button, select command you want to execute and press [PLAY] button to execute selected command. While you press [PLAY] button, command you selected is executed.

## 5) HDD INFORMATION

HDD DATA LIST : Shows general information of HDD.

HDD AUTO DETECT : Allows to detect HDD just in case first HDD search after purchase failed.

# SPECIFICATIONS

## 1. MONITOR SPECIFICATIONS

### ► LCD Type

15" Diagonal AM-TFT(Active-Matrix)

Pixel pitch(mm) : 0.297mm(H) X 0.297mm(V)

BRIGHTNESS: 430cd/m<sup>2</sup>(Typical)

CONTRAST RATIO: 400:1(Typical)

RESPONSE TIME: 25msec

### ► RESOLUTION(H x V)

1024 X 768 @75Hz

### ► FREQUENCY

HORIZONTAL: 30KHz - 62KHz

VERTICAL: 56Hz - 75Hz

### ► INPUT SIGNAL

ITU-656 (Digital 8Bit)

### ► ACTIVE DISPLAY AREA (W x H)

304mm X 228mm

### ► ELECTRICAL RATINGS

AC100 - 240V, 50/60Hz (auto switching)

### ►► NOTE :

*Technical specifications are subject to change without notice.*



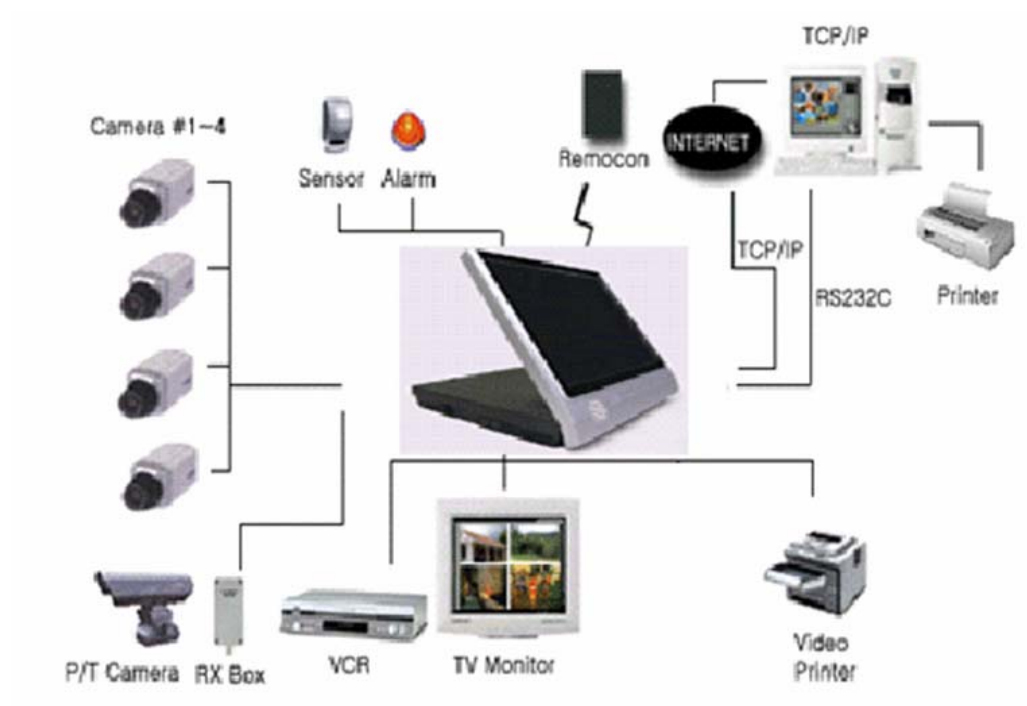
# SPECIFICATIONS

## 2. DVR SPECIFICATIONS

MODEL NO	DVR	
VIDEO I/F	INPUT	4 CH INPUT 1.0 VP-P, 75 OHM UNBALANCED (BNC TYPE)
	OUTPUT	2 OUTPUT VBS : 1.0VP~P.75 OHM UNBALANCED (BNC TYPE)
	HORIZONTAL RESOLUTION	480TV LINES
	S/N RATIO	MORE THAN 4dB
	COLOR	16.7 MILLION
MONITORING METHOD	SPLIT SCREEN	FULL, QUAD DISPLAY
	ZOOM	LIVE & PB AVAILABLE
	PIP	AVAILABLE
	SEQUENCE	AVAILABLE
	SCREEN QUALITY	FULL : 720(H)X480(V) ACTIVE PIXELS 1/4 SCREEN : 360(H)X240(V) ACTIVE PIXELS
RECORDING /PLAY FUNCTION	SPEED	0.1~30 FRAME/SEC
	MATERIAL	HDD
	COMPRESSED PICTURE	JPEG
	PICTURE RECORDING METHOD	FIELD SWITCHER METHOD FULL SCREEN RECORDING
	REC. MODE	REAL-TIME/ TIME-LAPSE / EVENT
	TRACK PLAY	SEARCH, STILL
OTHER FUNCTION	WEB INTERFACE	TCP/IP with client software
	POST ALARM FUNCTION	1~59SEC, CONTINUOUS TIMING ESTABLISHMENT POSSIBILITY
	BACK-UP	CONVENTIONAL VCR, TIME LAPS VCR (VCR OUTPUT PROVIDED) REMOTE BACK-UP USING TCP/IP INTERNAL BACK-UP(MARK IMAGE)
	OTHERS	RS232C, RS485, MAX 4 ALARM INPUT
	CAMERA CONTROL	PAN/TILT/ZOOM AND FOCUS REMOTE CONTROL : EXTERNAL EQUIPMENT, WIPER,PUMP,FAN AND HEATER
	CONFIGURATION	PLUG&PLAY
MECHANICAL	OPERATION TEMPERATURE	41F~ 104F (5C~ +40C)
	OPERATION HUMIDITY	LESS THAN 90%
	IR REMOTE CONTROLLER	BUILT-IN
	DIMENSION	15" RACK SIZE 1U , 337.5 x 355.4 x 72.5 mm
	WEIGHT	APPROX. 5KG (HDD 1EA)
	POWER SUPPLY	DC ADAPTER (12V DC 8A)

# SPECIFICATIONS

## SYSTEM CONFIGURATION



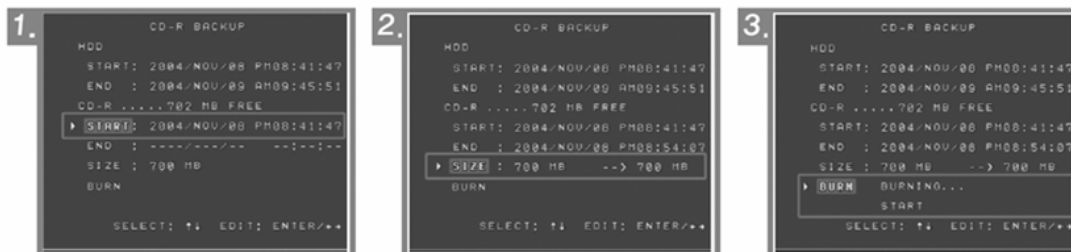
# CDRW BACKUP FUNCTIONS



## How to back-up with CD-RW

*Thank you for using our DVR-RW.*

4ch DVR : Press MENU button to go into **SETUP MENU** → Press 1 button and ENTER → **MISCELLANEOUS SETUP** → **HDD INFORMATION** → Select **CD-R BACKUP**  
 8ch & 16ch DVR : Press MENU button to go into **SETUP MENU** → Press ENTER → **HDD MANAGEMENT** → Select **CD-R BACKUP**



1. Insert CD-R media into CD-RW drive and select the start time and date what you want to back-up.

- \* START and END of time/date in HDD content only shows all of data information recorded. You cannot choose or change it.
- \* 702 MB FREE of CD-R content means CD-R media information.

2. Move down to SIZE and push ENTER button. At the moment 700MB is selected, cursor will move down to BURN.

- \* End of back-up time will be chosen automatically as much as the size of CD capacity you selected.
- \* You can select the size of CD capacity on SIZE content but you cannot set or change the END of back-up time on CD-R content.
- \* You can only change the START time and date.

3. Push the ENTER button at BURN content. Then, DVR start to burn CD.



4. When burning is completed, CD media will come out automatically. As you can see the above picture, CD-R content shows INSERT BLANK CD and Start Of back-up time will be set as just the end of back-up time automatically. End of back-up time will be selected as the same size as before. You can change this size as much as you want. If you want to back-up continuously, insert another CD media into CD-RW drive and burn it. If you don't want to burn anymore, press MENU button.

- \* During burn CD, it's impossible to cancel.

5. Please install AJP Player in your PC. You can check CD data you burned through AJP Player.