

VER 1.0

STAND-ALONE DVR  
- KSR104S -



Digital Video Recorder



**KODICOM**



• ,  
•

•  
•  
•

가

.( 0°C ~40°C)

가  
“OFF”



•  
•  
•

• , TV





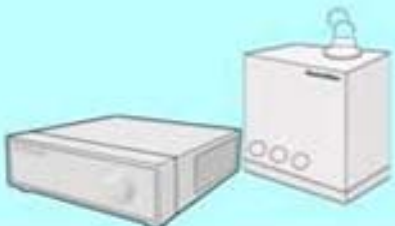

가

•  
•

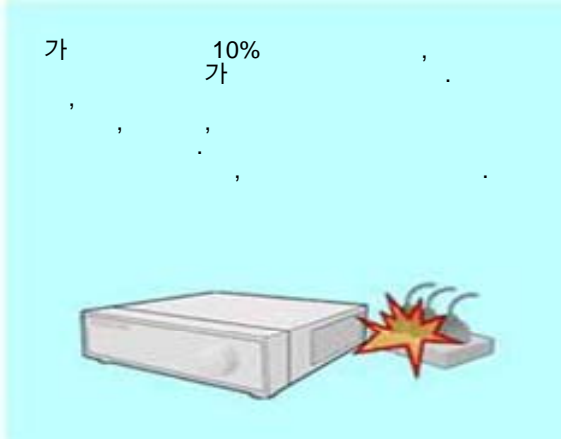
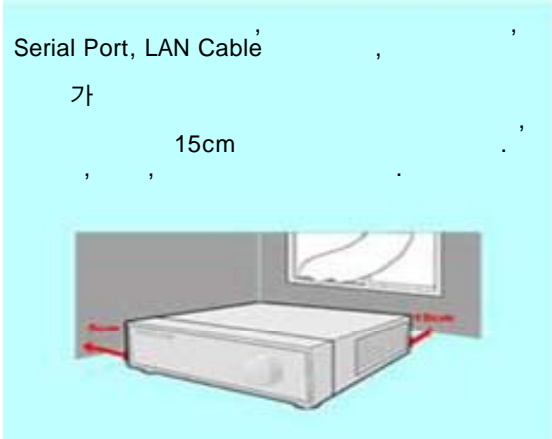
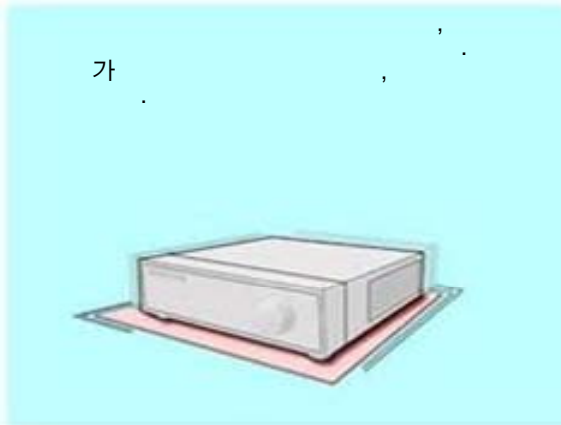
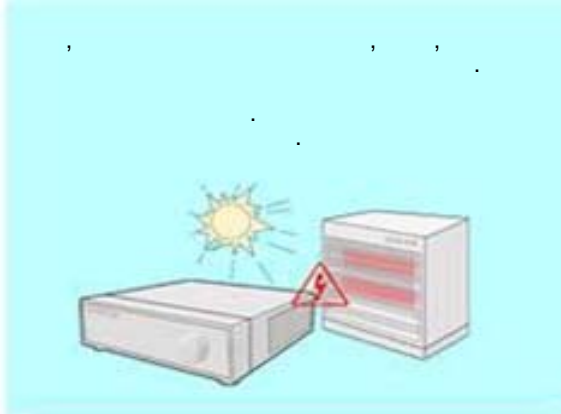
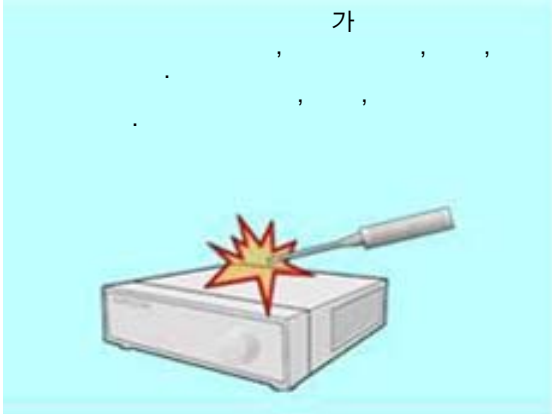


	가	
---	---	---

 경고

off 	가 , , 가 
	가 가 
	

# ⚡ 경고



# ⚠ 주의

TV 가



(0 가), (40 가)



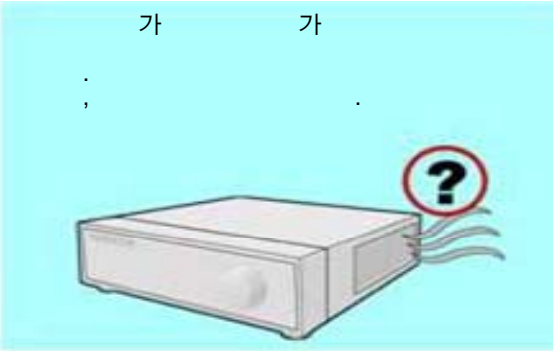
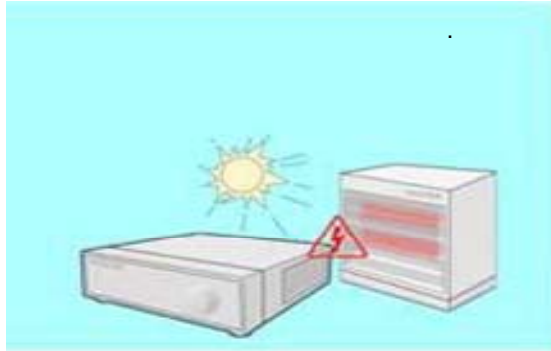
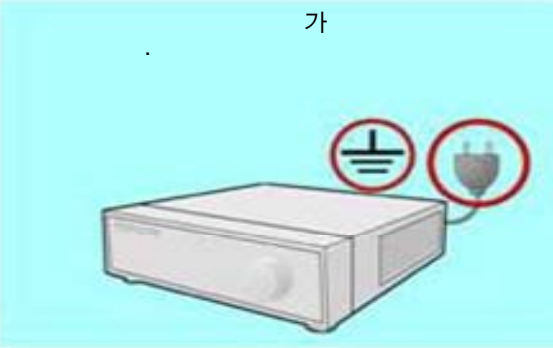
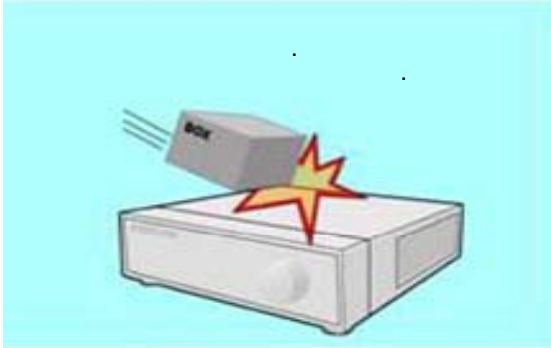
가



15cm 5cm



# ! 주의



가

AVR( )

, Core-Ferrite( EMI )



1.	-----	2
2.	-----	2
3.	-----	3
1)	-----	3
2)	-----	4
4.	-----	5
5.	-----	9
1)	-----	9
2)	-----	10
3)	-----	12
4)	-----	14
①	-----	14
② DISPLAY SETUP	-----	15
③ CAMERA SETUP	-----	16
④ TIME/DATE SETUP	-----	18
⑤ ALARM/MOTION SETUP	-----	19
⑥ RECORD SETUP	-----	22
⑦ TCP/IP SETUP	-----	23
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6.	-----	28
1. SPECIFICATIONS	-----	28
2. KSR104S	-----	29



“ ”

OFF



1. KSR104S

2. KSR104S

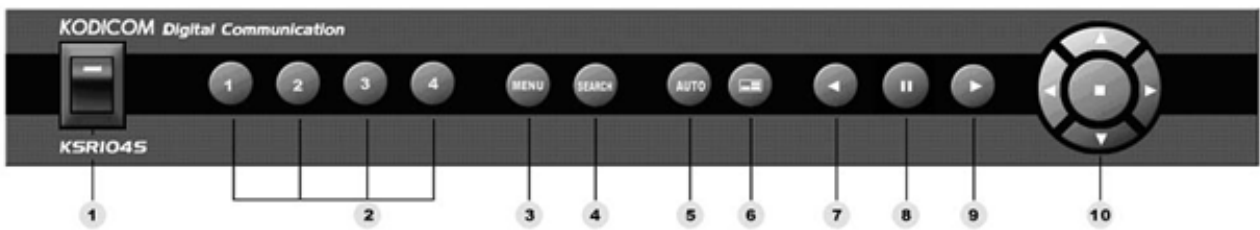
3. 가 가

4. KSR104S

5.

3.

1.



1. POWER SWITCH : System Power ON/OFF.

2. 1,2,3,4 : PASSWORD .

3. MENU : SYSTEM SETUP .

4. SEARCH : .

5. AUTO : .

6. MODE (  ) : 4 / .

7. ( ) : ( )  
 . (1x REV ~ 60x REV )

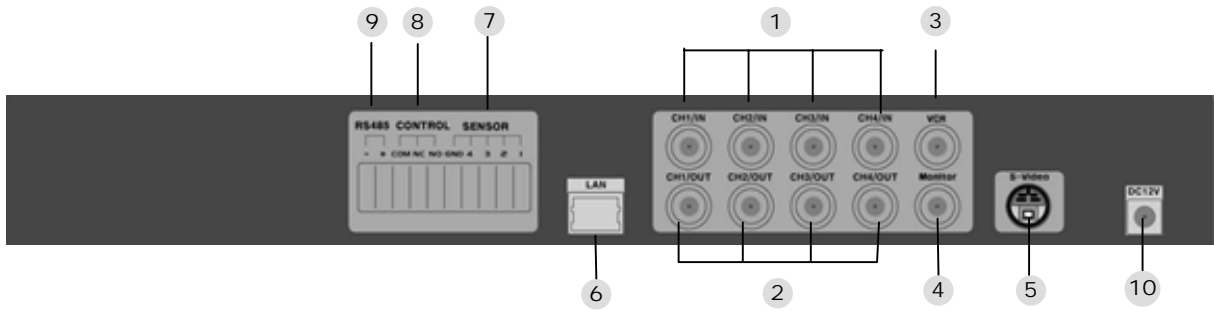
8. II ( ) : .

9. ( ) : ( )  
 . (1x ~ 60x )

10. & : ( ), ( )  
 , MARK IMAGE  
 ( ) P/T .

3.

2.



- 1.
- 2. LOOP
- 3. VCR
- 4. MONITOR
- 5. S-Video
- 6. LAN(TCP/IP)
- 7.
- 8. Control(RELAY)
- 9. PAN/TILT ( RS485 )
- 10. DC 12V



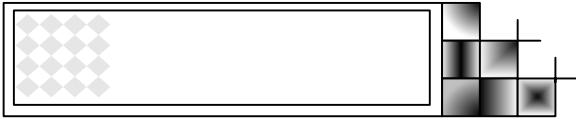
: DC 12V

가



:

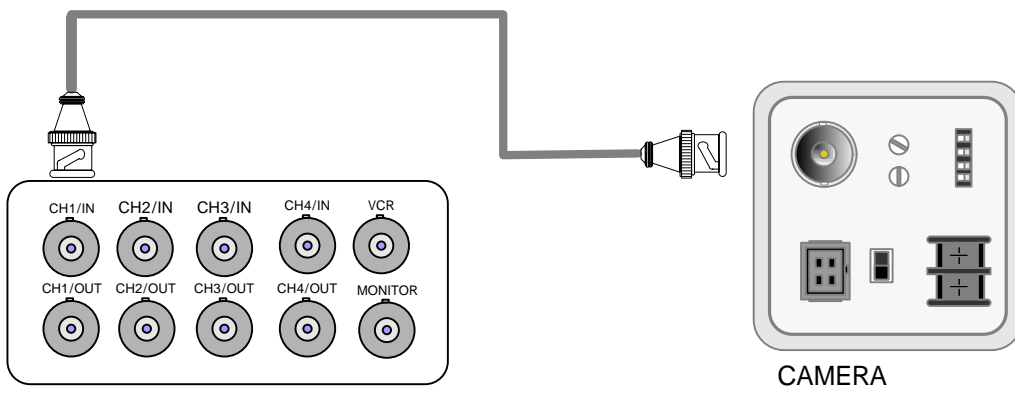
POWER OFF



4.

1)

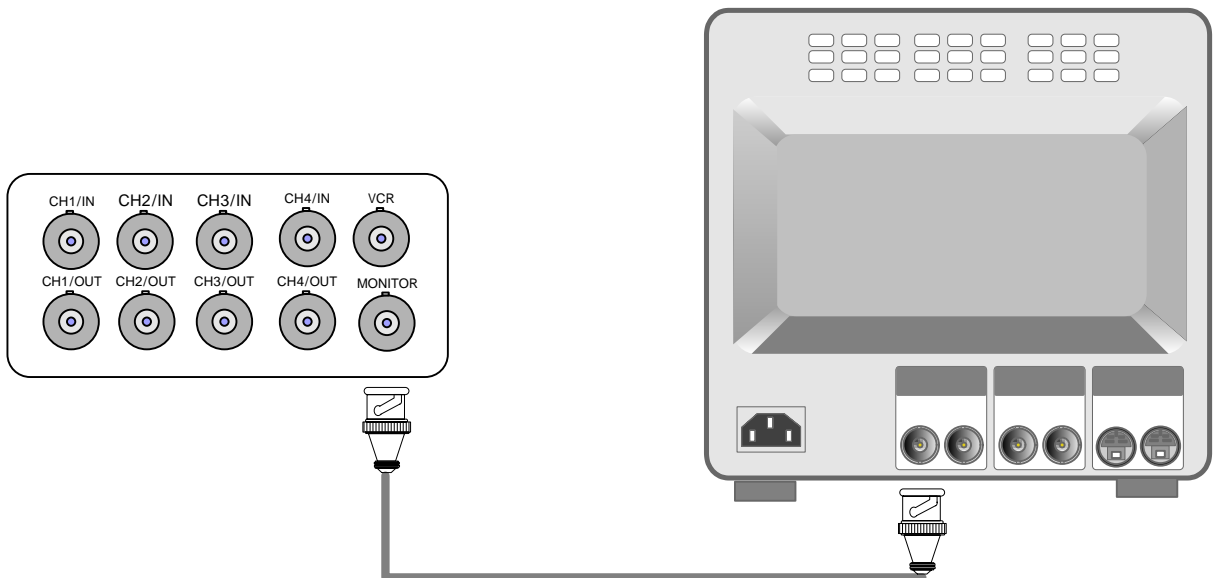
CAMERA INPUT



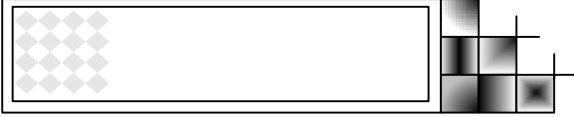
2)

(Composite )

MONITOR OUT

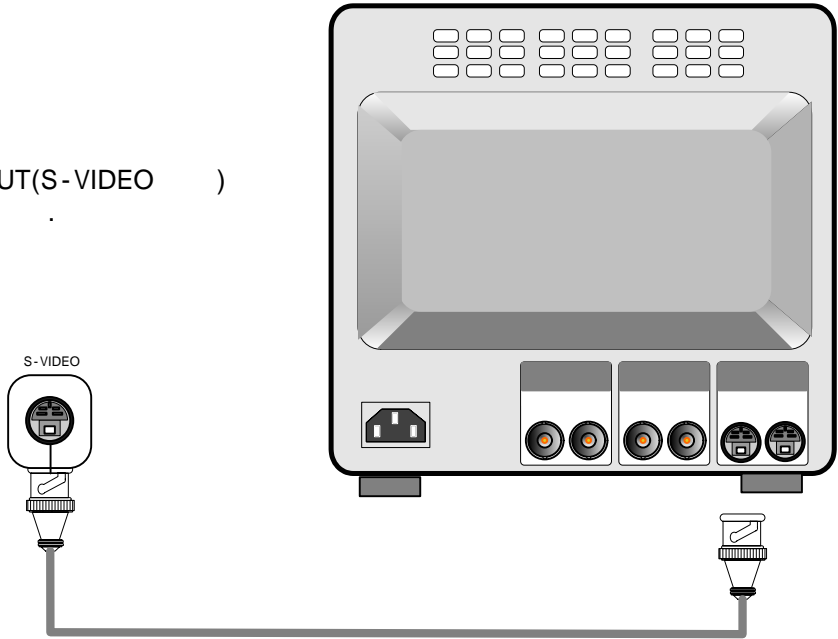


4.



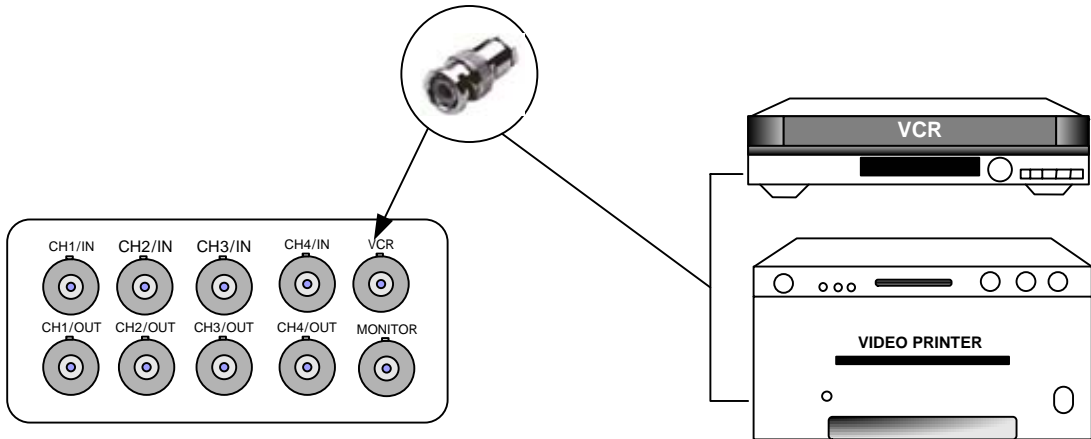
3) (S-Video)

S-VIDEO MONITOR OUT(S-VIDEO )



4) VCR VIDEO PRINTER

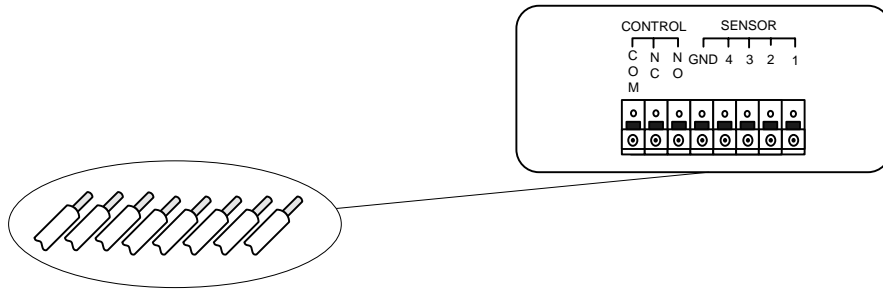
VCR OUT VCR VIDEO PRINTER



4.

5)

Sensor/Control



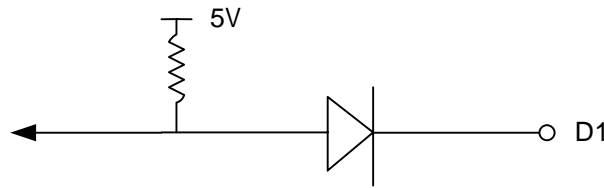
" Sensor  
"HIGH"

GND

"LOW"

FLOATING

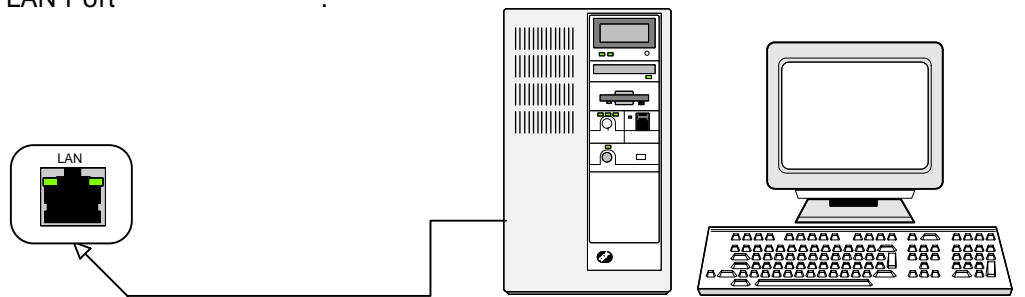
5V



(-) 가 5V

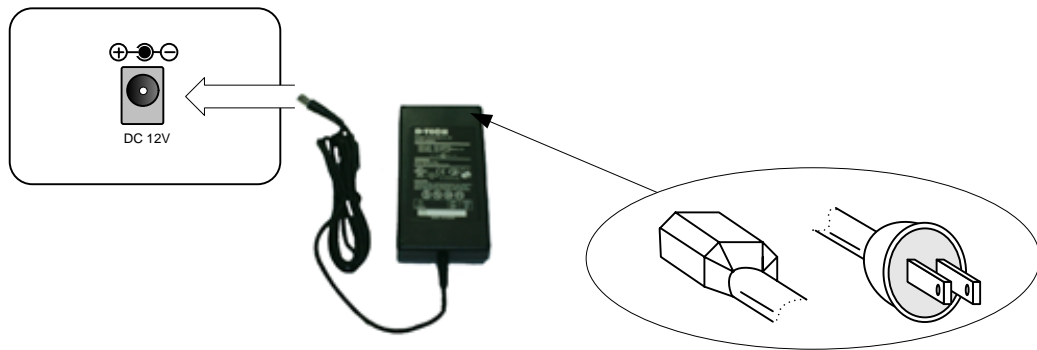
6)

LAN Port



4.

7)



8)

SYSTEM

PASSWORD

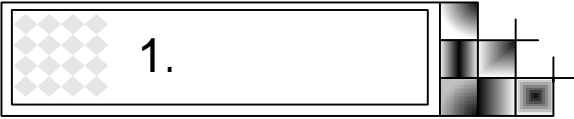
“1”

“2”

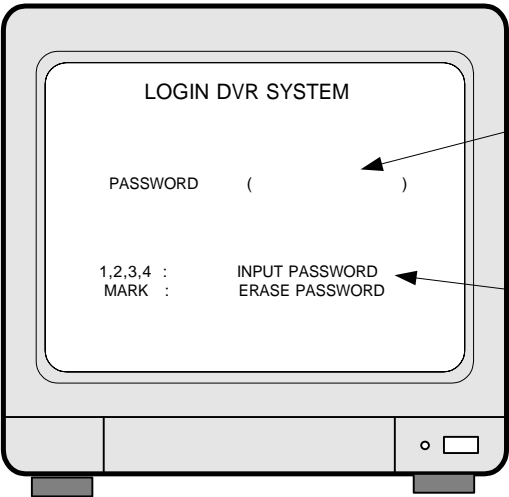
9) SYSTEM SETUP

SYSTEM SETUP

5.



1. DVR SYSTEM



1) P/W : 1

2)

1) 가 MENU

2) LOGIN DVR SYSTEM

3) 1 2 3 4  
1 8

4) MENU

▶ 가 "ADMIN GRADE LOGIN OK" 가

가 "CURRENT PW INPUT ERROR"

가 .

▶ , 2 가 .

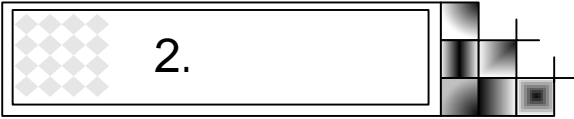
ADMIN( ) : "1" USER ( ) : "2"

⚠ " MISCELLANEOUS SETUP ID/PW SETUP  
. (Page 24 )

⚠ " "

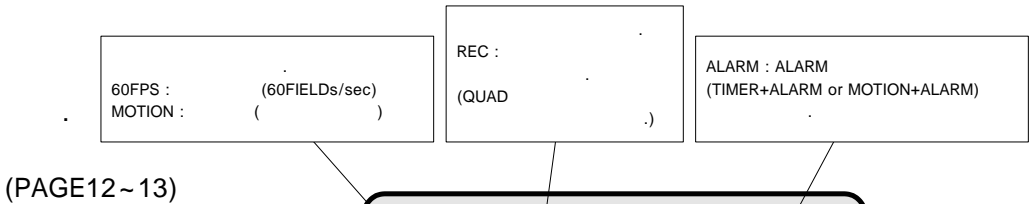
⚠ " USER MODE DISPLAY SETUP TIME/DATE TYPE SETUP 가 .

5.

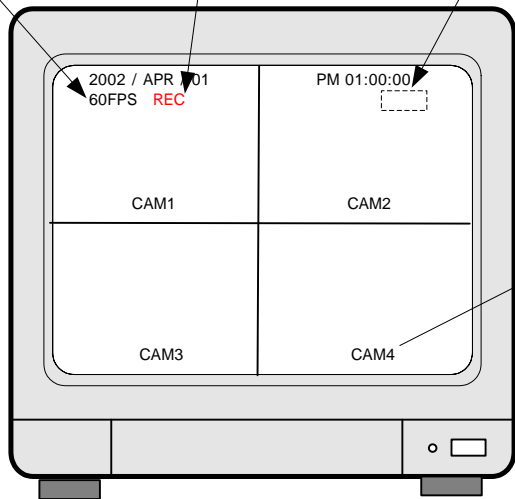
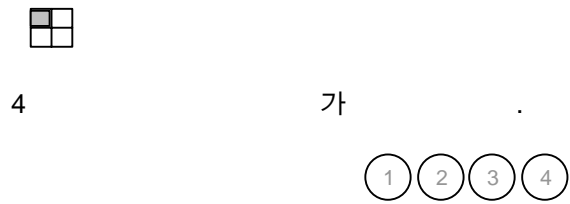


- ▶ Default 60FPS FIELD , TIMER
- ▶ RECORD SETUP(page.22)

1. SEARCH

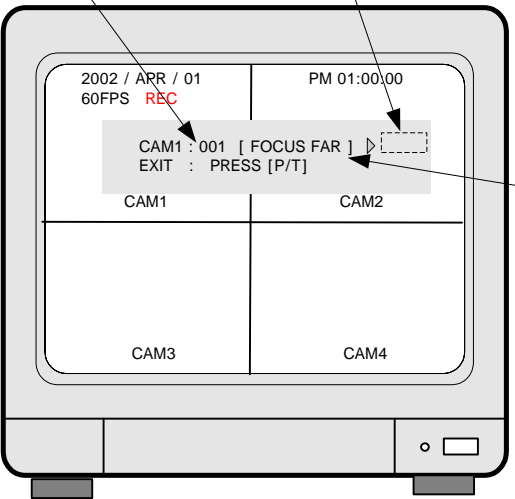
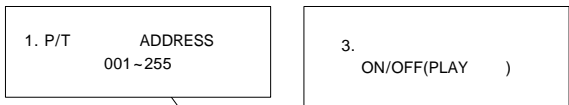


2. MODE



3. P/T

- 1. P/T ADDRESS
- 2. P/T
- 3. P/T
- 4. ON/OFF
- 5.



- 2.
- FOCUS FAR
- FOCUS NEAR
- FOCUS AUTO
- PAN RIGHT
- PAN LEFT
- TILT UP
- TILT DOWN
- ZOOM IN
- ZOOM OUT
- AUTO PAN
- LIGHT CMD
- WIPER CMD
- PUMP CMD
- POWER CMD
- FUNTION 1
- FUNTION 2
- FUNTION3

PAN/TILT (DRX-502A )

#### 4. AUTO

1. LIVE 

2. 4

3. 

4. 

4

▶ SEQUENCE INTERVAL

(Page 15 ) 1 99

가



5.

#### 5.

1) 가

2) 가

MAIN MENU RECORD SETUP(Page 22)  
ALARM SETUP ALARM DURATION

REC MODE SETUP(TIME+ALARM MOTION+ALARM )  
(Page 19 )

#### 6.

MAIN MENU MISCELLANEOUS SETUP SCHEDULE REC SETUP (Page 25 )

#### 7. (MOTION DETECTION)

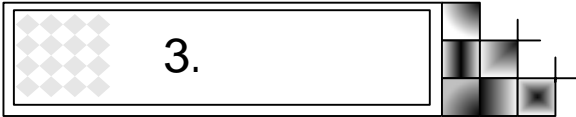
MAIN MENU ALARM/MOTION SETUP (Page 19~21 )

#### 8.

1) SYSTEM SETUP 가

2) 가

3) 가 가가



1.

1) .

2) .

3) .

4) .

(GOTO .)

5) .

START : 2002/APR/12 AM 07:40:38  
 END : 2002/APR/20 PM 02:11:56  
 GOTO : 2002/APR/15 AM 00:00:00

가  
 가  
 가

2. (GOTO )

1) GOTO .

2) .

3) .

: , 가 .

: START END START TIME .

: START END 가 가 .

3.

1) . ( )

2) , .

3) 1x Play mode .

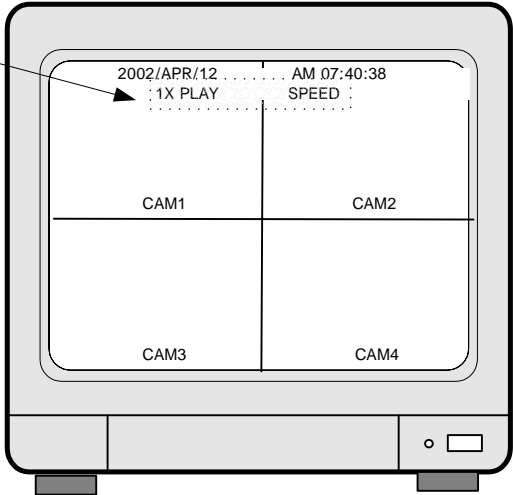
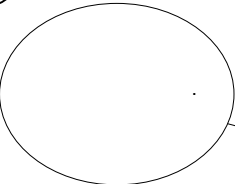


4.

1) ○ ( ) ○ ( )

2) (1 ~ 60 가 )

▶ (MOTION DETECTION)  
(TIME+ALARM MOTION+ALARM)



5.

1) ○1 ○2 ○3 ○4

2) □ (Mode) 4

6. MARK IMAGE

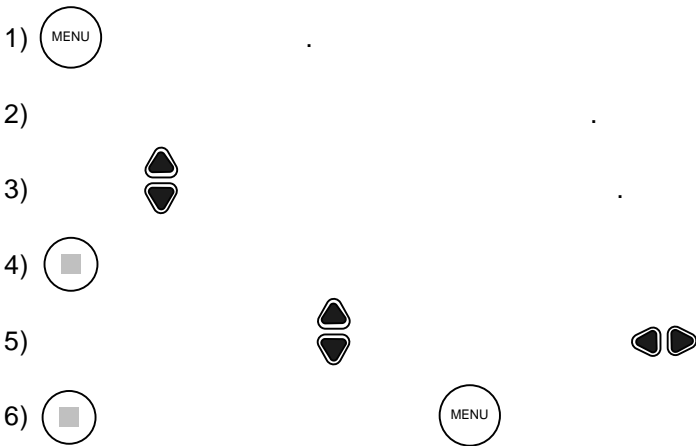
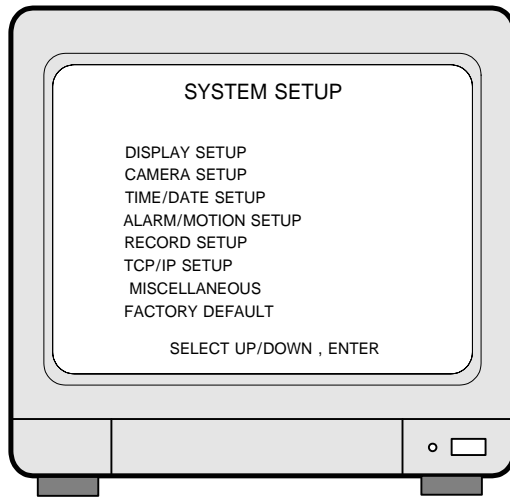
PLAY ○ ■ ○ ■

가

5.

4.

1.



7) FACTORY DEFAULT

▶ FACTORY DEFAULT

1. TIME/DATE SETUP

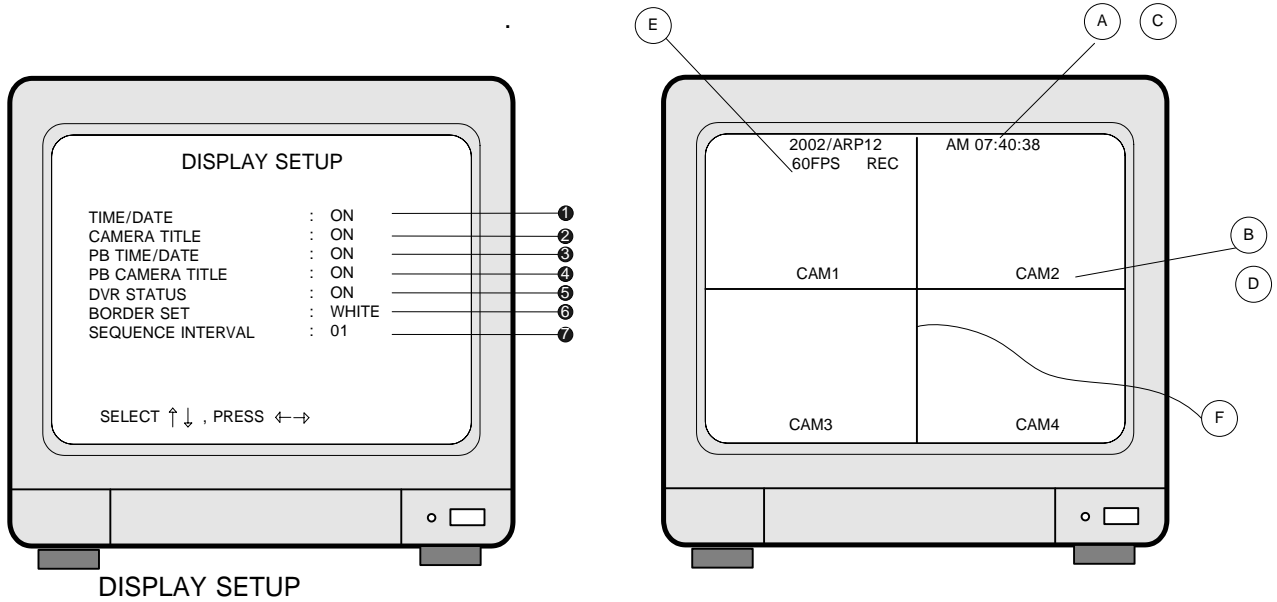
2. HDD

3. MARKING

4. ADMIN

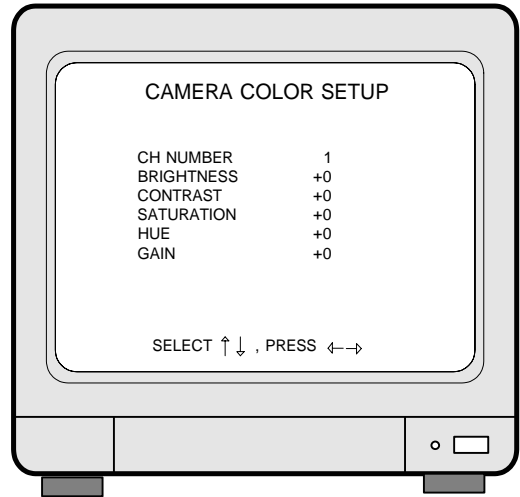
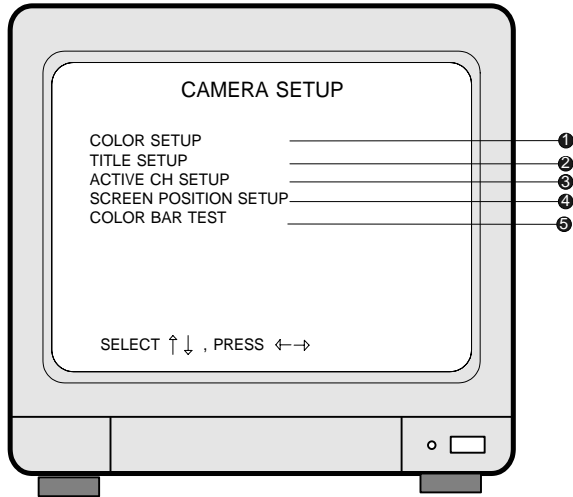
5. ALARM LIST SETUP

## 2. DISPLAY SETUP



- ① TIME/DATE : LIVE (A)
- ② CAMERA TITLE : LIVE (B) TITLE
- ③ PB TIME/DATE : "ON" (C)
- ④ PB CAMERA TITLE : TITLE (D)
- ⑤ DVR STATUS : REC/PLAY (E) DVR
- ⑥ BORDER SET : (F)  
- WHITE/ BLACK/ GRAY
- ⑦ SEQUENCE INTERVAL : (AUTO)

### 3. CAMERA SETUP



**1** COLOR SETUP :

CH NUMBER	:	
BRIGHTNESS	:	(-31 ~ +32)
CONTRAST	:	(-31 ~ +32)
SATURATION	:	(-20 ~ +32)
HUE	:	(-31 ~ +32)
GAIN	:	(-31 ~ +32)

**2** TITLE SETUP :

TITLE

1) ( ) CHANNEL

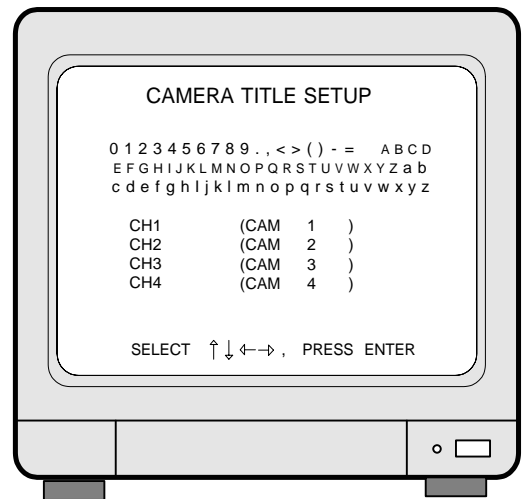
( )

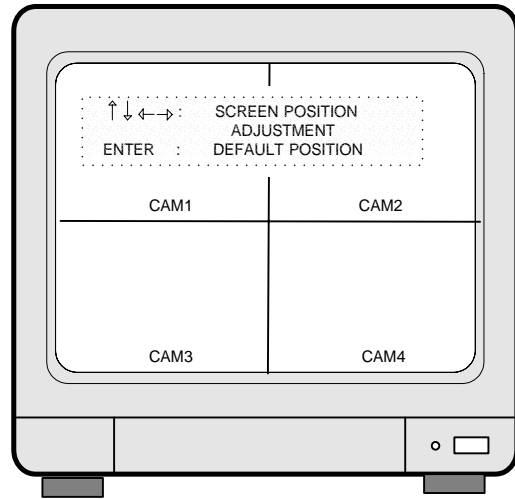
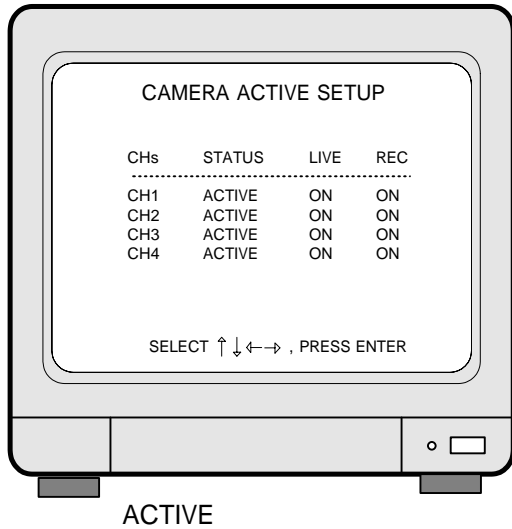
2) CHANNEL 가 ( )

( )

( )

MAIN MENU





3 ACTIVE CH SETUP :



ON/OFF

1. STATUS :

ACTIVE

LOSS

2. LIVE : LIVE

3. REC :

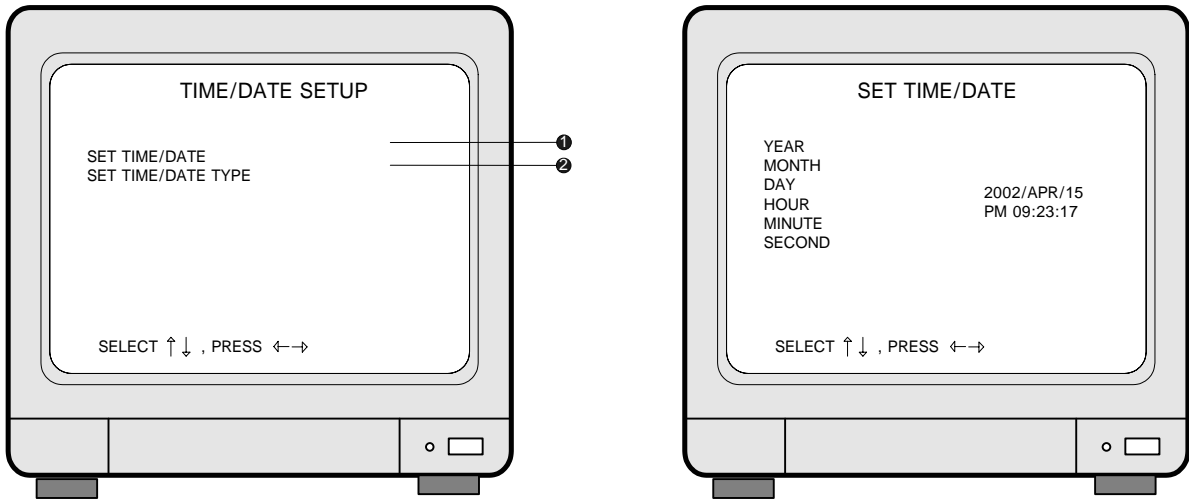
4 SCREEN POSITION SETUP



5 COLOR BAR TEST : COLOR BAR CHART



#### 4. TIME/DATE SETUP



1 SET TIME/DATE : / / / / /



/ / / /



2 SET TIME/DATE TYPE :

1. HOUR DISPLAY :

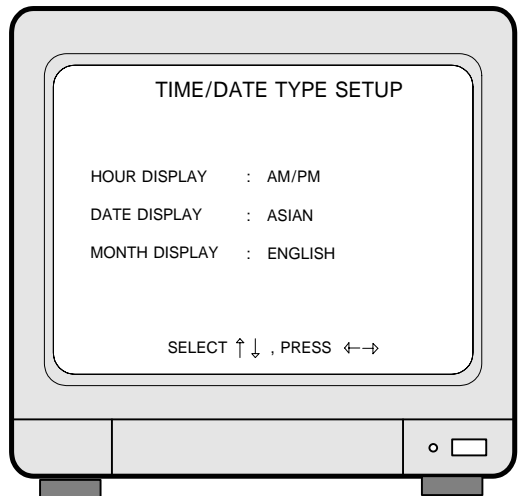
AM/PM 24

2. DATE DISPLAY :

/ /

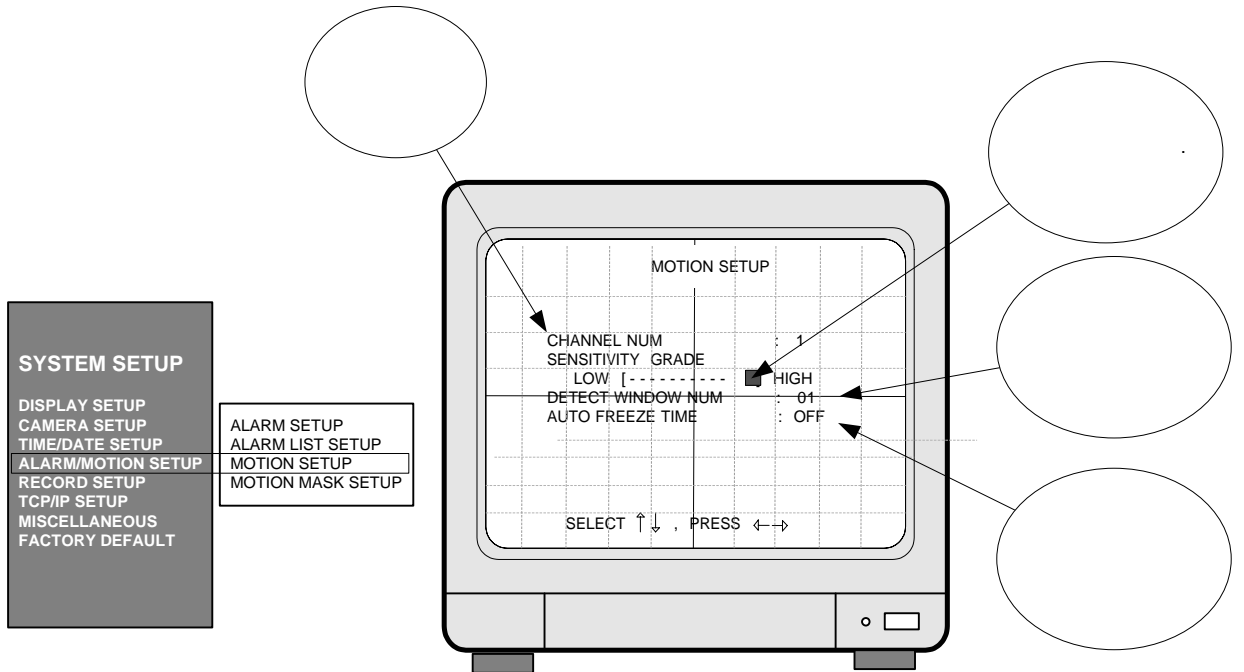
3. MONTH DISPLAY :

MONTH 가





3 MOTION SETUP :



CHANNEL NUM :

.

SENSIVITY :

. ( ←→ )

DETECT WINDOW NUM :

가

1~20

, 가 DETECT WINDOW NUM

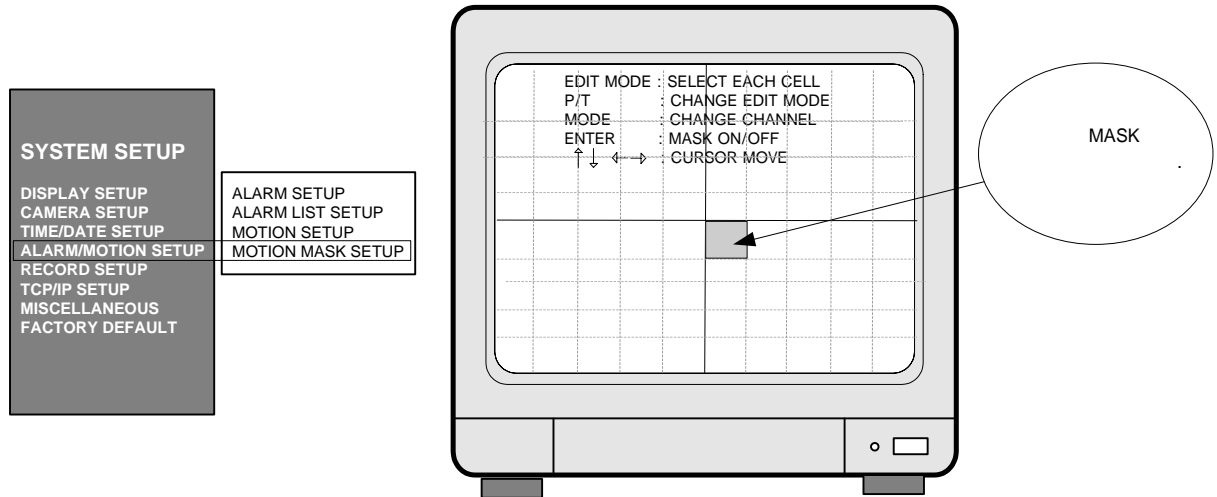
5 5 CELL

AUTO FREEZE TIME : MOTION

OFF [DEFAULT]

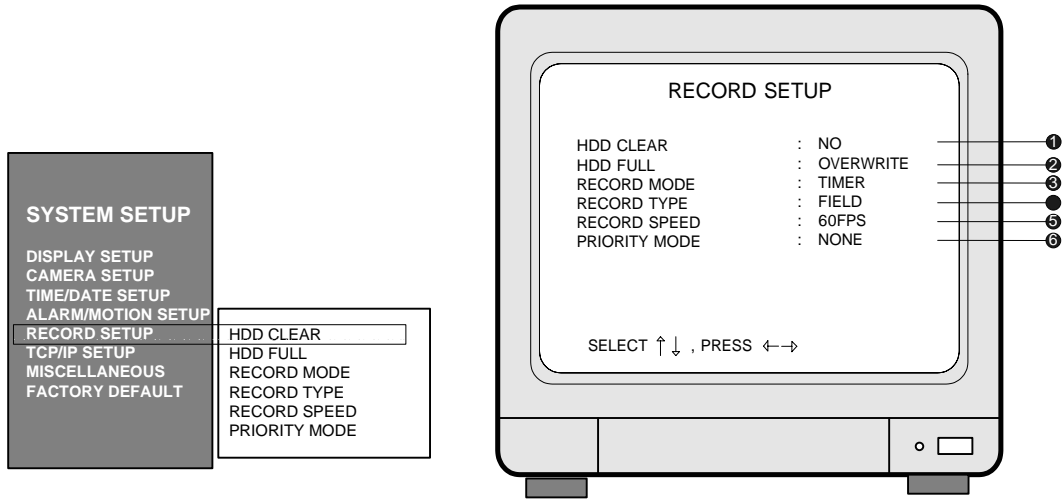
: 1,2,3,5,10 SEC

4 MOTION MASK SETUP :



1. EDIT
  2. BLOCK ,
  3. MASK
  - 4.
  5. (QUAD,1,2,3,4) FULL 가
- SELECT VER LINE :
- CLEAR VER LINE :
- SELECT HOR LINE :
- CLEAR HOR LINE :
- SELECT BLOCK : BLOCK [START]가
- CLEAR BLOCK : BLOCK
- SELECT ALL CELLS :
- CLEAR ALL CELLS :

6. RECORD SETUP



1 HDD CLEAR : YES , HDD  
 ⚠ ( ) HDD

2 HDD FULL : HDD가 FULL OVERWRITE ( ) STOP( )

3 RECORD MODE

- 1 TIMER :
- 2 TIMER+ALARM : ALARM (POST - ALARM )
- 3 MOTION : MOTION
- 4 MOTION+ALARM : MOTION ALARM

4 RECORD TYPE

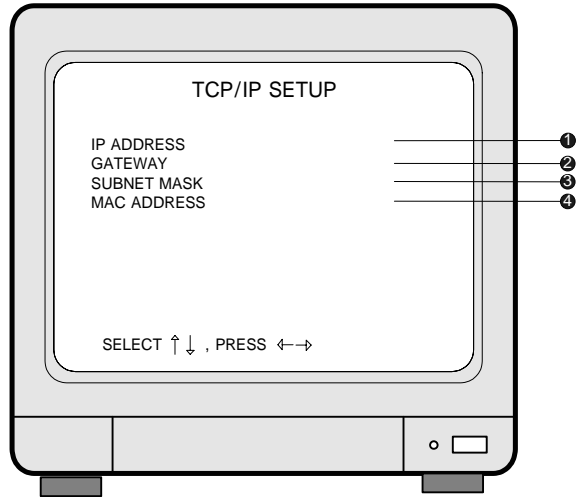
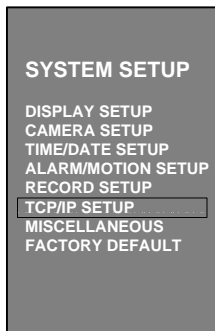
- 1 FIELD : 720X240 가
- 2 QUAD : 360X120 4 720X240 (30Frame/sec)

RECORD SPEED :  
 0.1 10 1  
 (60/30/15/10/5/2/1/0.5/0.2/0.1FPS 가 )

PRIORITY MODE :

- 1 NONE : 1,2,3,4 가
- 2 1 : 1 가 1-2-1-3-1-4-1-2
- 3 1,2 : 1-2-3-1-2-4-1-2-3

### 7. TCP/IP SETUP



① IP ADDRESS

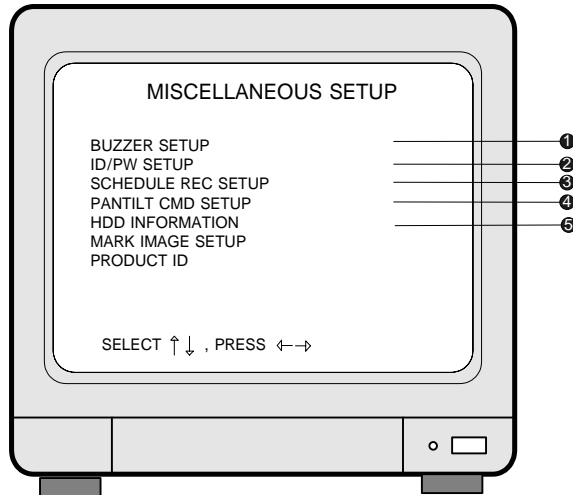
② GATEWAY

③ SUBNET MASK

④ MAC ADDRESS : “ ” MAC ADDERSS ADDRESS 가

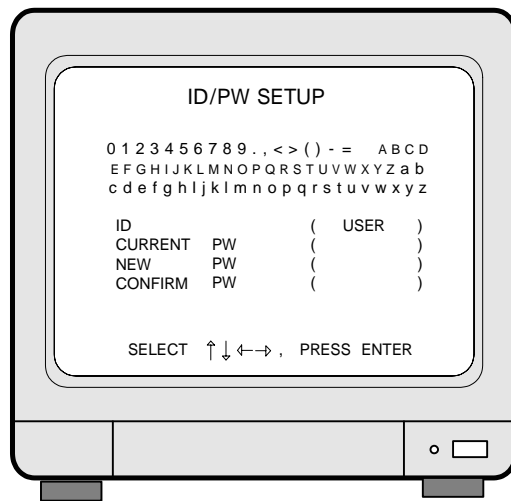
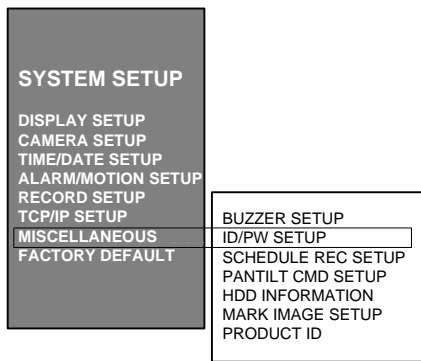
, 가 가

8. MISCELLANEOUS SETUP



1 BUZZER SETUP : BUZZER ON/OFF .

2 ID/PW SETUP : ID PASSWORD .



ID/PW SETUP

1)  ID

2) 

3)

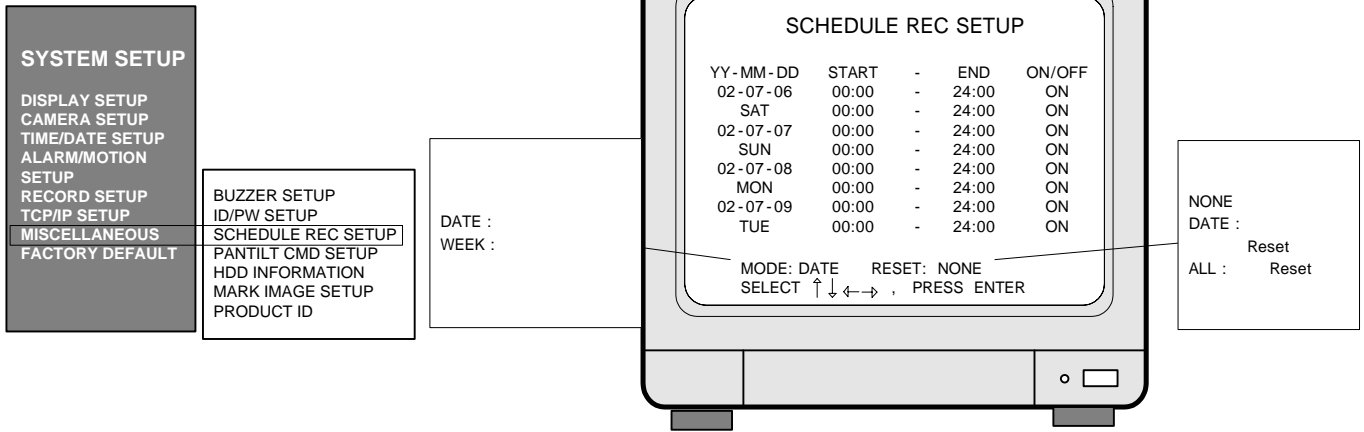


:

ADMIN PASSWORD "1" , USER PASSWORD "2" .  
PASSWORD

3 SCHEDULE REC SETUP :

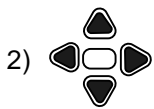
5.



가  
4

1. : 가

1) "MODE" DATE (DEFAULT : DATE)



2) 가 (START) (END) ,

3) , / 30 가

4) (ON/OFF)

5) 가

6) RESET

RESET DATE

. ALL 가

(NONE : DATE : / ALL: )

7)



: RESET "NONE"

1 01:00-03:00 ON  
04:00-05:00 ON

1 3 , 4 5

2 01:00-03:00 OFF  
04:00-05:00 OFF

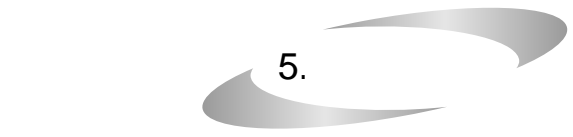
1 3 , 4 5

3 01:00-03:00 ON  
04:00-05:00 OFF

1 3 (ON OFF가 ON 가

2. :  "MODE" WEEK

3. : 가

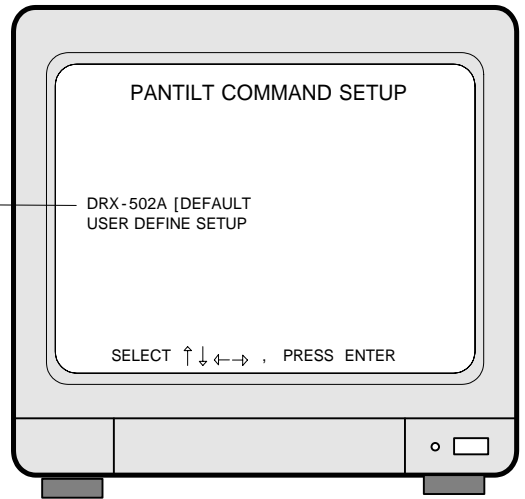


4 PANTILT CMD SETUP : PANTILT CONTROLLER  
USER DEFINE SETUP COMMAND

**SYSTEM SETUP**  
DISPLAY SETUP  
CAMERA SETUP  
TIME/DATE SETUP  
ALARM/MOTION SETUP  
RECORD SETUP  
TCP/IP SETUP  
MISCELLANEOUS  
FACTORY DEFAULT

BUZZER SETUP  
ID/PW SETUP  
SCHEDULE REC SETUP  
PANTILT CMD SETUP  
HDD INFORMATION  
MARK IMAGE SETUP  
PRODUCT ID

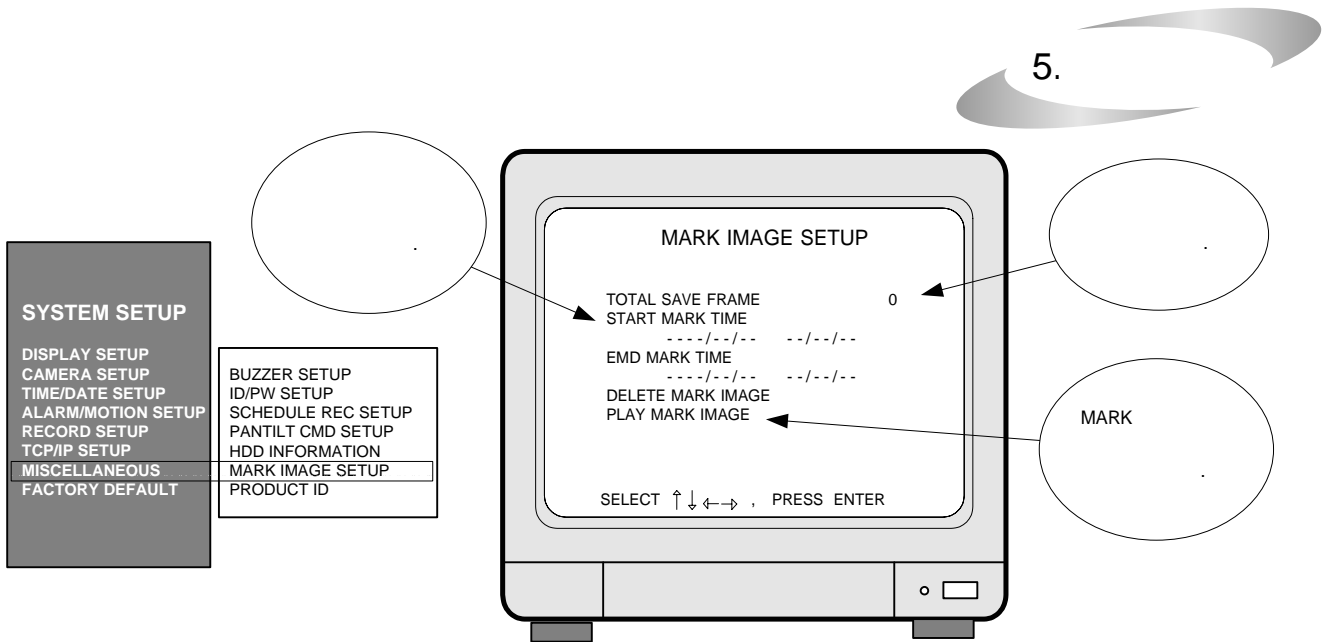
1.DRX - 502A[DEFAULT]  
2.AECD - 2000  
3.USER DEFINE



5 HDD INFORMATION

1 HDD DATA LIST :

2 HDD AUTO DETECT : HDD



**6** MARK IMAGE SETUP

HDD가

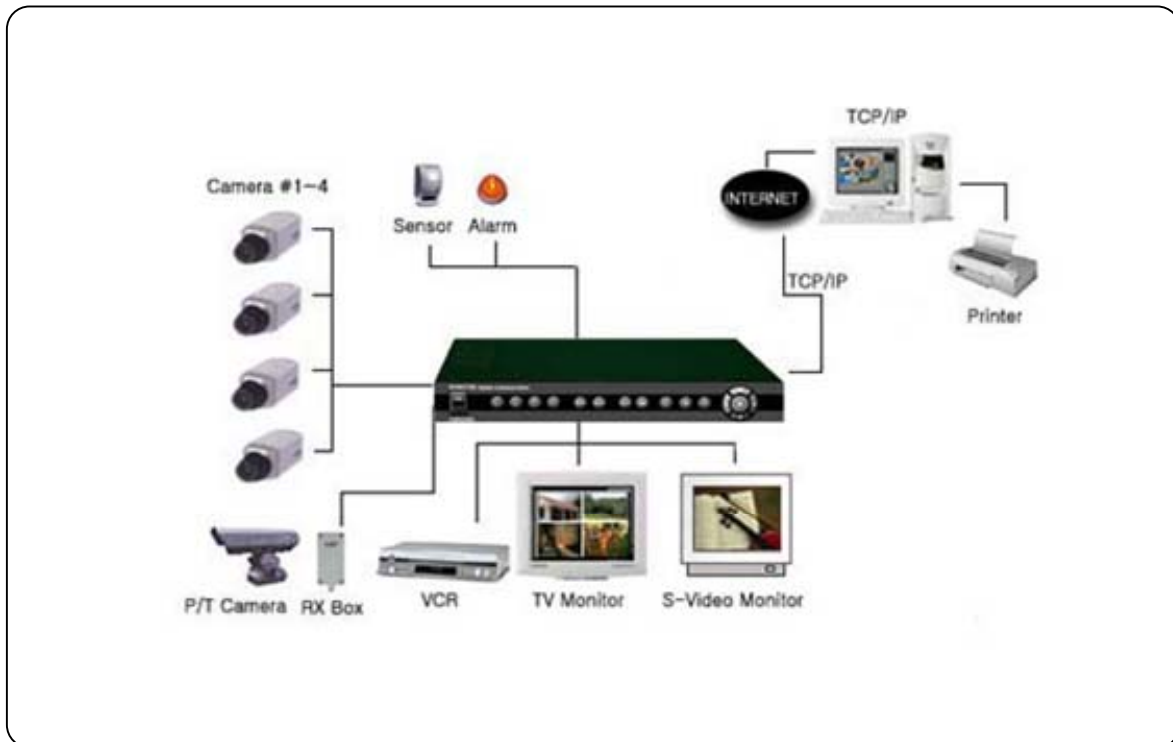
MARK IMAGE

- 1) HDD가 "PAUSE" "SPEED" 가
- 2) HDD MARK IMAGE 가 "FULL" 가
- 3) (MARK IMAGE HDD : 10 )
- 4) PLAY MARK IMAGE , DELETE MARK IMAGE
- 5) "HDD CLEAR"
- 6) " MARK IMAGE DELETE MARK IMAGE"

**7** PRODUCT ID :

MODEL NO	KSR104S	
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
	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 (EACH CHANNEL)
	MATERIAL	HDD
	COMPRESSED PICTURE	JPEG
	PICTURE PRESERVATION METHOD	QUAD SCREEN PRESERVATION FIELD SWITCHER METHOD FULL SCREEN PRESERVATION
	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	PREVIOUS VCR, TIME LAPS VCR USAGE : VCR OUTPUT UTILIZATION REMOTE BACK-UP USING TCP/IP
	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
	4 HDD	INTERNAL1 OR 2 HDD
	MECHANICAL	OPERATION TEMPERATURE
	OPERATION HUMIDITY	LESS THAN 90%
	DIMENSION	19" RACK SIZE 1U , 430X330X49 mm
	WEIGHT	APPROX. 5KG (HDD 1EA)
	POWER SUPPLY	86~240V AC

## 2. KSR104S



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