

# MDR-1000

( 1.2)

MDR-1000.

MDR-1000.

MDR-1000.



MDR-1000

(DVR)

1.

(90~260

).

2.

DVR.

3.

DVR

4.

5.

DVR

(

).

6.

DVR

DVR

. DVR

( , , )

DVR.

7

DVR,

8.



:

DVR's

9.



3V



:

DVR



:

10.

DVR

DVR.

FCC

:

15

FCC.

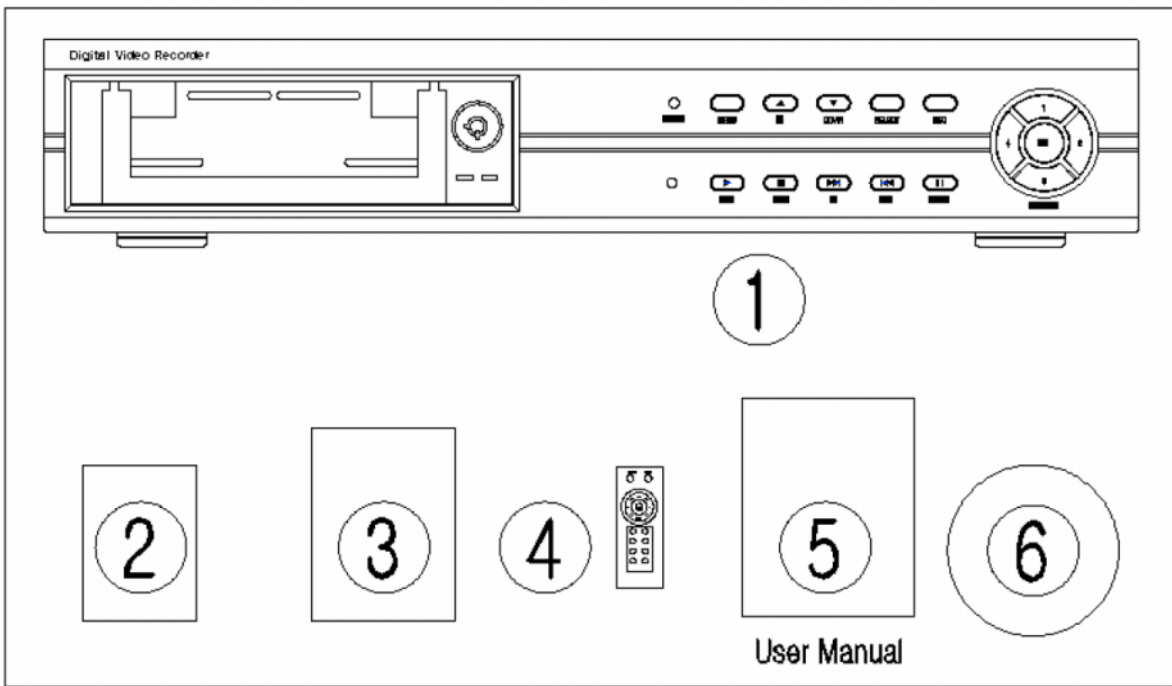
A

<b>1</b>	.....	<b>5</b>
<b>2</b>	.....	<b>6</b>
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2.2	.....	7
<b>3</b>	.....	<b>8</b>
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1

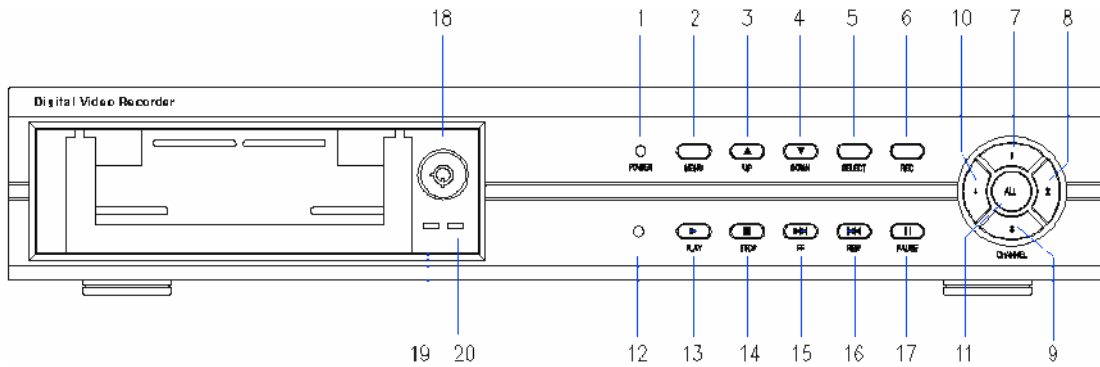
CD



1		1
2		1
3	AC-DC	1
4		1
5		1
6	CD	1

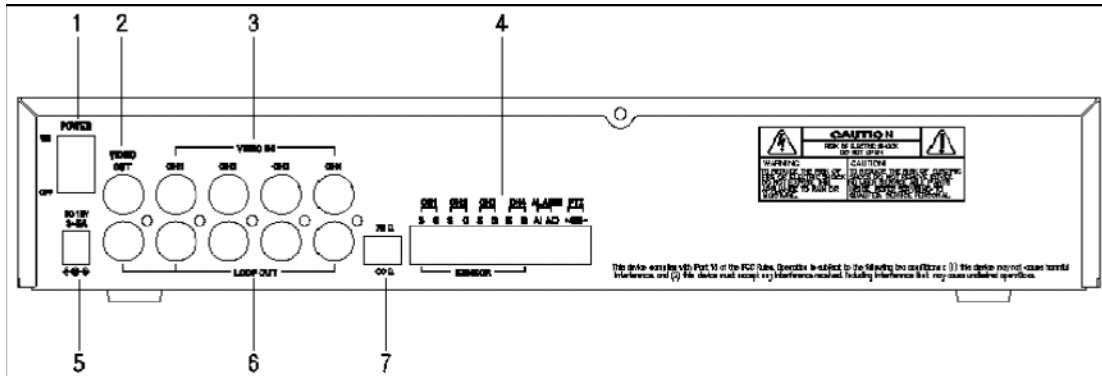
## 2

### 2.1

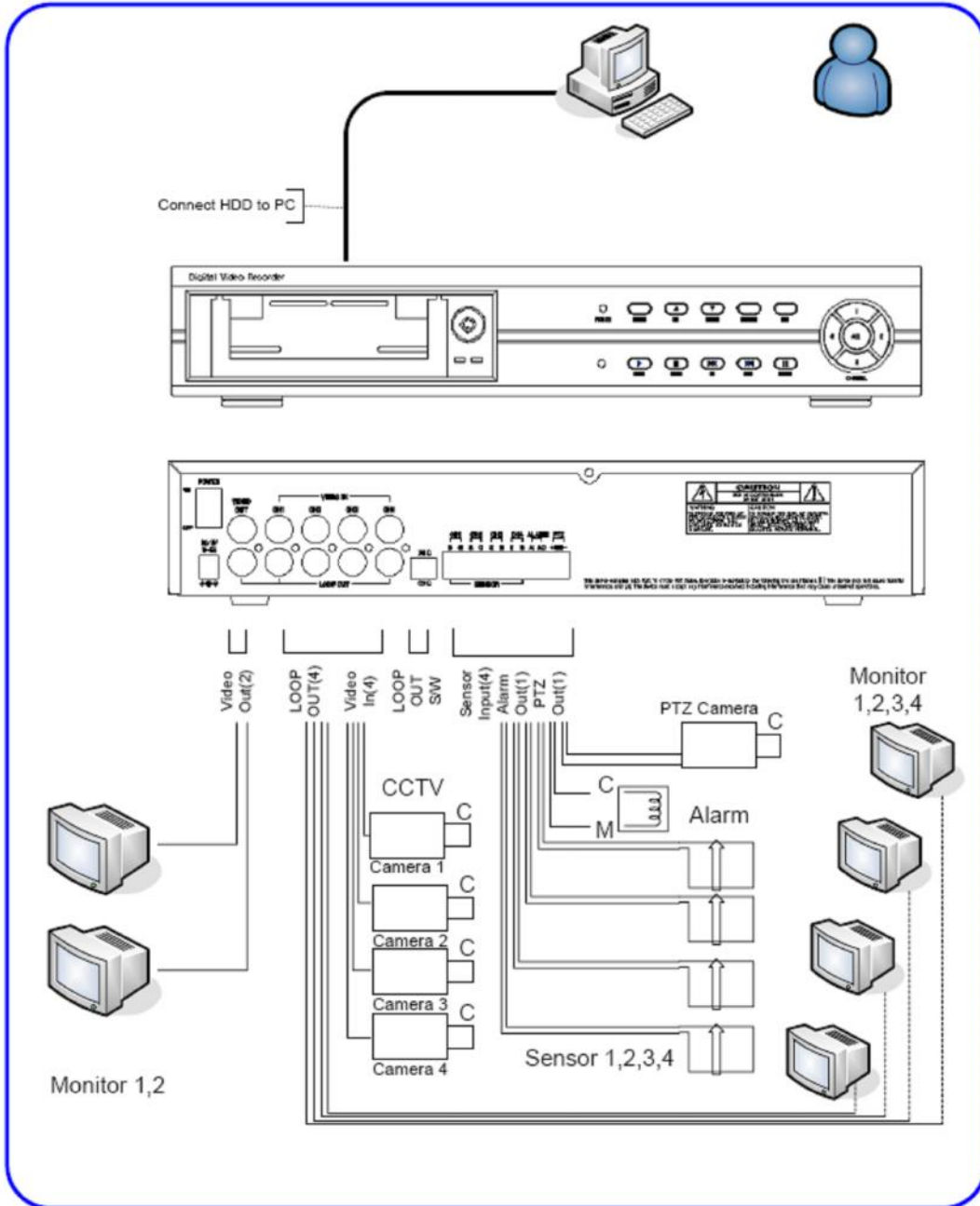


No.		
1	POWER LED	/
2	MENU	
3	UP	
4	DOWN	
5	SELECT	
6	REC	
7	1 CH	1
8	2 CH	2
9	3 CH	3
10	4 CH	4
11	ALL	
12		
13	PLAY	
14	STOP	
15	FF	
16	REW	
17	PAUSE	
18	HDD ON/OFF	HDD.
19	1 ( )	
20	2 ( )	

2.2



No.		
1	POWER SWITCH	
2	VIDEO OUT	
3	VIDEO IN	
4	ALARM/SENSOR	
5	POWER IN	DC (+12V)
6	LOOP OUT	
7	Compensation S/W	





# 4

## 4.1

HDD ..

### 4.1.1

HDD

HDD.

2 ,

HDD .

HDD,

HDD.

“Not installed” ( ).

HDD ( HDD)

, HDD MASTER ( ).

```
Checking ( )
Master HDD.. ( HDD)
>> Master HDD OK
Slave HDD ( ).....
>> Slave HDD NOT installed ( HDD
)
```

, HDD SLAVE ( ).

```
Checking
Master HDD.....
>> Master HDD NOT installed
Slave HDD ..
>> Slave HDD OK
```

HDD

```
Checking
Master HDD.....
>> Master HDD NOT installed
Slave HDD.....
>> Slave HDD NOT installed
```

HDD.

HDD .

HDD,

HDD

HDD

```
Checking
Master HDD.....
>> Master HDD NOT installed
Slave HDD ..
>> Slave HDD New HDD is Formatted
```

---

HDD

HDD ,

HDD (HDD Rack).

---

4.1.2

CH1	CH2
CH3	CH4
USED: 00% [M] 2005/03	/01 12:12:12 *

USED 00% HDD.  
[M] [S] HDD. [M] HDD , [S] HDD.  
HDD NO HDD.  
2005/03/01 12:12:12  
“\*” HDD  
CH1, 2, 3, 4

CH1
USED: 00% [M] 2005/03/01 12:12:12

ALL.

CH1  
[1--4]

USED: 00% [M]    2005/03/01 12:12:12

MENU->SUB MENU->CHANNEL ROTATION PERIOD.

## 4.2

### 4.2.1

RECORD SELECT ( )		1234
RECORD MODE ( )		EACH( )
RECORD FRAMERATE ( )		30
RECORD QUALITY ( )		NORMAL( )
HDD REC SEQUENCE ( HDD)		NO_HDD
RECORD SCHEDULE ( )		TIME RECORD ( )
SUB MENU ( )	PASSWORD CHANGE ( )	111111
	TIME SET ( )	TIME ( )
		FORMAT( ) YYYY/MM/DD HH:MM:SS ( / / : : )
	CHANNEL ROTATION RERIDO ( )	02
HARD DRIVE SETUP ( )	HDD OVERWRITING ( )	[YES]
	MASTER HDD SIZE ( HDD)	00000M
	MASTER HDD USED ( HDD)	0M 0%
	FORMAT MASTER HDD ( HDD)	ENTER PASSWORD: ---- ( )
	SLAVE HDD SIZE ( HDD)	
	SLAVE HDD USED ( HDD)	
	MASTER HDD USED ( HDD)	
SENSOR SETUP ( )	SENSOR RECORD TIME ( )	10 SEC
	ALARM TIME ( )	0 SEC
	CH1 CH2 CH3 CH4	NOT INSTALLED( )
	MOTION SENSOR ( )	----
	MOTION SENSITIVITY ( )	15
PTZ CONTROL (PTZ- ) ( )	CAMERA MODEL ( )	SK-2171D7
	CAMERA SELECT ( )	---
	PAN DIRECTION ( )	( )LEFT < > RIGHT( )
	PAN SPEED ( )	00
	TILT DIRECTION( )	( )DOWN < > UP ( )
	TILT SPEED ( )	00
	ZOOM( )	( )WIDE < > TELE
	FOCUS ( )	( )NEAR < > FAR ( )

## 4.2.2

>

DOWN UP

>

MAIN MENU ( )	[ Version ]
> RECORD SELECT ( )	1234
RECORD MODE ( )	EACH
RECORD FRAMERATE ( )	30
RECORD QUALITY ( )	NORMAL
HDD REC SEQUENCE ( HDD)	NO_HDD
RECORD SCHEDULE ( )	
SUB MENU ( )	
HARD DRIVE SETUP ( )	
SENSOR SETUP ( )	
PTZ CONTROL (PTZ- )	
[ UP ( ), DOWN ( ) ] MOVE( ), [ SEL ( ) ] CHANGE ( )	
[ MENU ] EXIT ( )	

## 4.2.3

### (RECORD SELECT)

RECORD SELECT.

SELECT

:

(---),

(1 2 3 4),

(---4), 4

(1 2-4), 1, 2 4

16

:

#### 4.2.4 (RECORD MODE)

RECORD MODE.  
SELECT EACH QUAD. EACH( )  
4 ,  
1,2,3,4  
4 . QUAD MODE 4  
( )  
: EACH MODE.

#### 4.2.5 (RECORD FRAMERATE)

RECORD FRAMERATE. SELECT  
30(NTSC) 25(PAL),  
30 25  
,  
,  
: 30 1 (NTSC-9 ), (PAL-8 ).

#### 4.2.6 (RECORD QUALITY)

VIDEO QUALITY. SELECT  
LOW( ), NORMAL( ) HIGH( ).  
:  
VIEW

#### 4.2.7 HDD (HDD REC SEQUENCE)

“SEL”  
Master: HDD.  
Slave: HDD.  
MS\_CIR: HDD , HDD  
SM\_CIR: HDD , HDD  
NO-REC: HDD

```

          RECORD SCHEDULE[      ]

          [ T : TIME (      ) S : SENSOR (      ) - : NO RECORD (      )]

          V

[ T T T T T T T T T T T T T T T T S S - - ]
|           |           |           |           |           |           |
0           3           6           9           15          18          21          24

CHANGE ALL REC SCHEDULE : -

[ UP, DOWN ]MOVE, [ SEL ]CHANGE
[ MENU ] EXIT
    
```

(12 UP 1:00 DOWN SELECT (-) "T" 24 "T" (1:00 - 2:00 "V" (S)

- (T)
- (S)
- (-)

(T).



4.2.9 (SUB MENU)

SUB MENU.

```

SUB MENU [ Version ]
> PASSWORD CHANGE
  TIME SET
  CHANNEL ROTATION PERIOD 02
[ UP, DOWN ]MOVE, [ SEL ]CHANGE
[ MENU ] EXIT
    
```

4.2.9.1 (PASSWORD CHANGE)

PASSWORD CHANGE SUB MENU

SELECT . PASSWORD. : 111111.  
 "CH1"

```

CURRENT( ) PASSWORD: -----
NEW ( ) PASSWORD: -----
CONFIRM( )PASSWORD: -----
    
```

CH1, 2, 3, 4

"PASSWORD CHANGED." (

SUB MENU.

"PASSWORD INCORRECT"( ), SUB MENU.

4.2.9.2 (TIME SET)

TIME SET SUB MENU SELECT .

UP DOWN ^

SELECT

4.2.9.3 (CHANNEL ROTATION PERIOD)

EACH MODE.

2

4.2.10

(HARD DRIVE SETUP)

(HDD) HARD DRIVE SETUP

SELECT.

HDD

```

HARD DRIVE SETUP [  ]

> HDD OVERWRITE ENABLE          [ YES ]
  MASTER HDD SIZE                40000M
  MASTER HDD USED                 0M    0%
  FORMAT MASTER HDD
  SLAVE HDD SIZE                  120000M
  SLAVE HDD USED                   0M    0%
  FORMAT SLAVE HDD

[ UP, DOWN ]MOVE, [ SEL ]CHANGE
[ MENU ] EXIT

```

4.2.10.1 (HDD OVERWRITE ENABLE).

YES ( ),

NO, HDD.

4.2.10.2 (MASTER HDD SIZE).

HDD ,

4.2.10.3 (MASTER HDD USED).

HDD.

4.2.10.4 HDD (FORMAT MASTER HDD).

HDD, HDD , (PASSWORD).

4.2.10.5 (SLAVE HDD SIZE).

HDD.

4.2.10.6 (SLAVE HDD USED).

HDD.

4.2.10.7 HDD (FORMAT SLAVE HDD).

HDD, HDD , (PASSWORD).

4.2.11 (SENSOR SETUP).

HARD DRIVE SETUP

SELECT.

SENSOR SETUP [ ]	
> SENSOR RECORD TIME	10 SEC
ALARM TIME	0 SEC
CH-1	NORMAL CLOSE
CH-2	NORMAL OPEN
CH-3	NOT INSTALLED
CH-4	NOT INSTALLED
MOTION SENSOR	---
MOTION SENSITIVITY	15
[ UP, DOWN ]MOVE, [ SEL ]CHANGE	
[ MENU ] EXIT	

4.2.11.1 (SENSOR RECORD TIME)

4.2.11.2 (ALARM TIME)

4.2.11.3 (SENSOR FEATURE)

3

1. NOT INSTALLED:
2. NORMAL OPEN ( )
3. NORMAL CLOSE ( )

NORMAL OPEN    NORMAL CLOSE.    NORMAL CLOSE ,    SELECT  
 NORMAL OPEN,

---

4.2.8 RECORD SCHEDULE.

---

4.2.11.4 (MOTION SENSOR)

4.2.11.5 (MOTION SENSITIVITY)

MOTION SENSITIVITY . 12 -

. 01 -

- 05.

---

: 4.2.8 RECORD SCHEDULE

---

4.2.12 PTZ - ( )

PTZ- (PTZ CONTROL) PTZ CONTROL  
SELECT.

PTZ CONTROL		[ Version ]
>	CAMERA MODEL ( )	SK-2171D7
	CAMERA SELECT( )	---
	PAN DIRECTION ( )	LEFT < > RIGHT
	PAN SPEED ( )	00
	TILT DIRECTION ( )	DOWN <> UP TILT
	SPEED ( )	00
	ZOOM ( )	WIDE < > TELE
	FOCUS ( )	NEAR < > FAR
[ UP, DOWN ]MOVE, [ REW, FF ]CHANGE		
[ MENU ] EXIT		

### 4.3


- EACH – : E-REC HDD: 00% [M] (T)
- EACH – : E-REC HDD: 00% [M] (S)
- QUAD – : Q-REC HDD: 00% [M] (T)
- QUAD – : Q-REC HDD: 00% [M] (S)

---

:	4.2.4	4.2.8
---	-------	-------

---

“ ” , STOP PASSWORD.  
(POWER OFF) ,

“Restart Recording” ,

“Start to Record”

## 4.4

play

```
EVENT SEARCH ( ) [ ]

MASTER HDD( )

2005/01/01 00:00:01-05/05/21 06:59:59

> 01 TIME ( ) 2005/05/21 01:15:20
02 TIME 2005/05/20 00:25:33
03 TIME 2005/05/19 11:35:55
04 TIME 2005/05/18 10:48:12
05 SENSOR ( ) 2005/05/17 09:57:55
...
[ UP, DOWN ]MOVE, [ PLAY ]PLAY
[ MENU ]EXIT, [ FF ]TIME SEARCH
USED: 00% [ M ]
```

### 4.4.1

```
“FF”
UP DOWN
PLAY
- 63.
HARD DRIVE: MASTER

( ) ( )
PLAYBACK ( ) MENU
PLAY SEARCH TIME. (Position 01
TIME). FF . HARD DRIVE: MASTER. DOWN
HARD DRIVE: MASTER.
HARD DRIVE: MASTER
HARD DRIVE: MASTER
HDD, HDD FF
HARD DRIVE.
“SELECT” HDD
```

UP DOWN . , SELECT.  
 , PLAY .

#### 4.4.2

PLAY	
PAUSE	
FF	FF . 5 (X4, X16, X32, X64, X128) .
REW	X64, X128) . REW . 5 (X4, X16, X32,
Slow play. ( )	3 (1/2, 1/4, 1/8). : REW, PAUSE, FF.
One frame play. ( )	“SELECT”,
STOP	

#### 4.5

“0,”

## 4.6

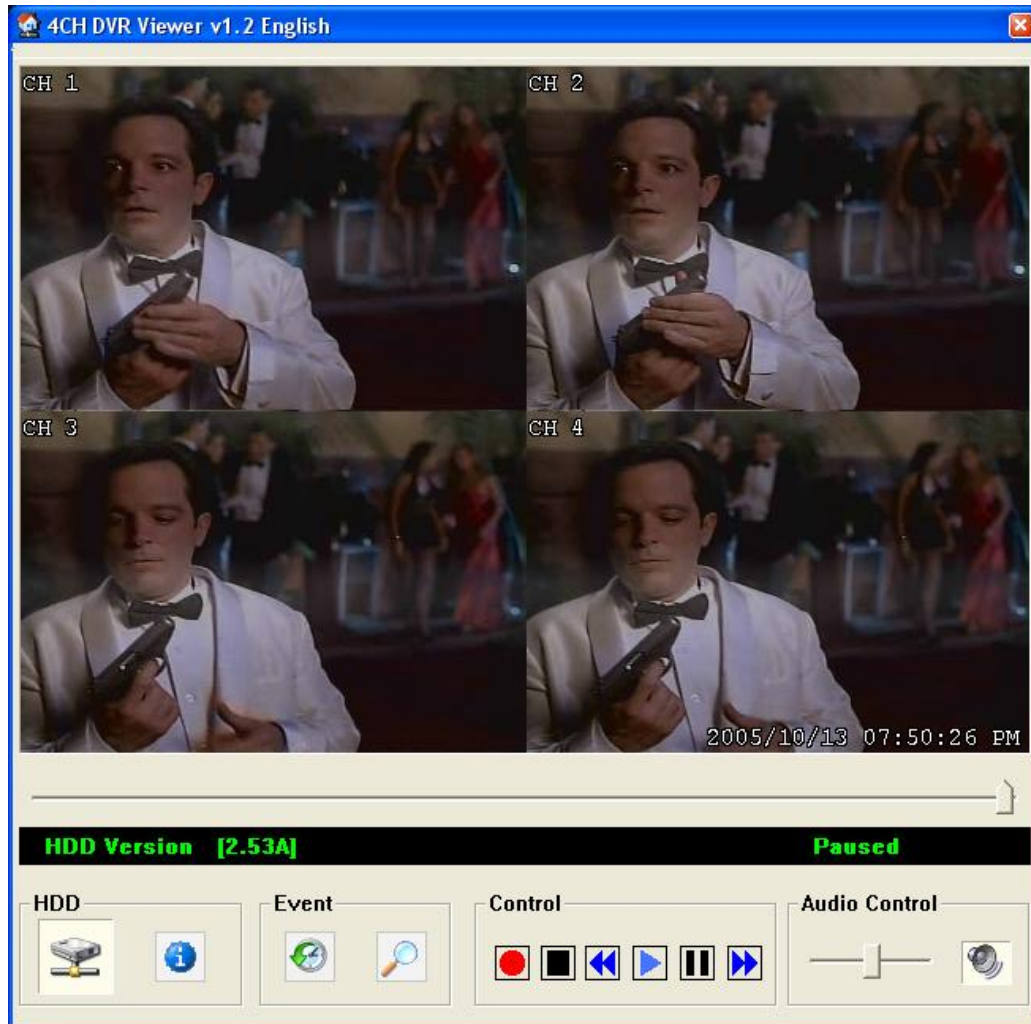
PASSWORD IS INCORRECT!	
RECORDING IS STOPPED. NO MORE SPACE TO RECORD.	HDD.
ANY HDD IS NOT INSTALLED	HDD HDD. HDD- RACK-
PASSWORD CHANGED.	
PASSWORD IS CORRECT! HARD DISK IS FORMATTED.	HDD
NO DATA...	HDD HDD 'NO DATA'
SELECT A VALID HDD SEQUENCE.	HDD 'NO_REC', 'REC'.
ANY RECORD CHANNEL IS NOT SELECTED.	'REC'.
ANY HDD IS NOT INSTALLED.	HDD, 'REC'.
OVERWRITING IS DISABLED NOW.	OVERWRITE ENABLED ( ) HDD.



5

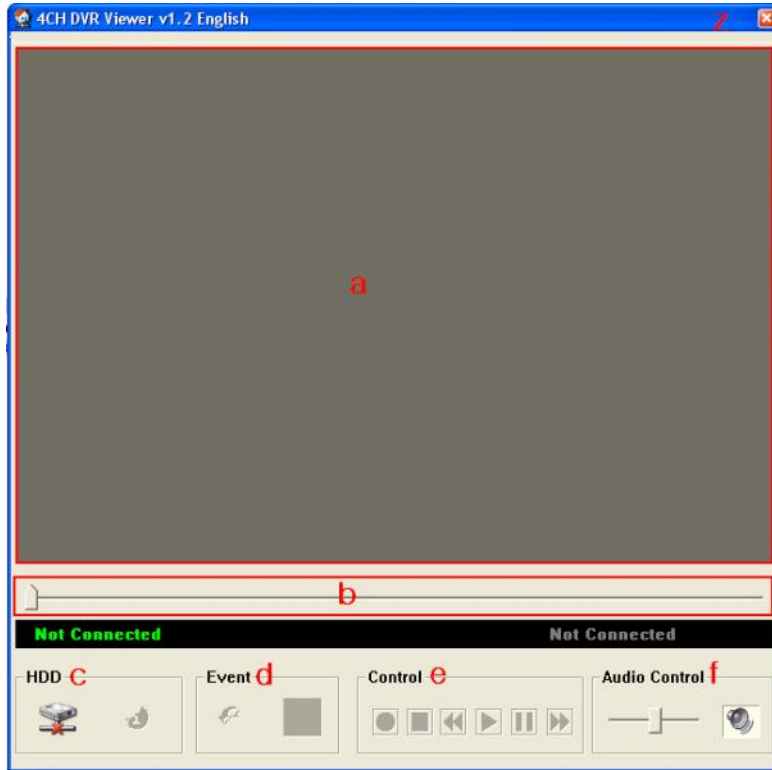
5.1

HDD

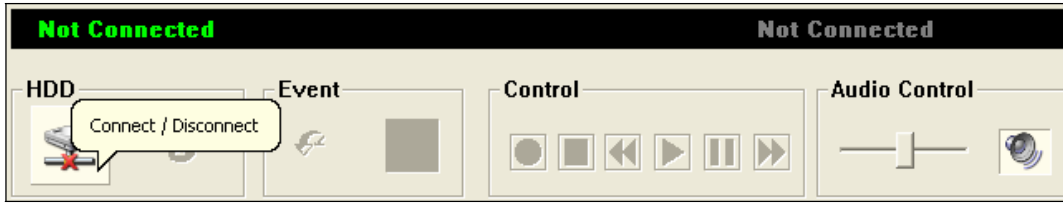


5.2

5.2.1



- a. - .
- b. - HDD.
- c. HDD - HDD , HDD.
- d. Event - , HDD.  
( , , , , )
- e. ontrol - Record, Stop, RW, Play, Pause, FF.



(HDD)

USB-

z

IDE-

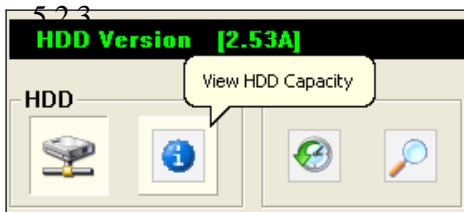


"Connect Backup HDD" .  
HDD.

HDD



HDD

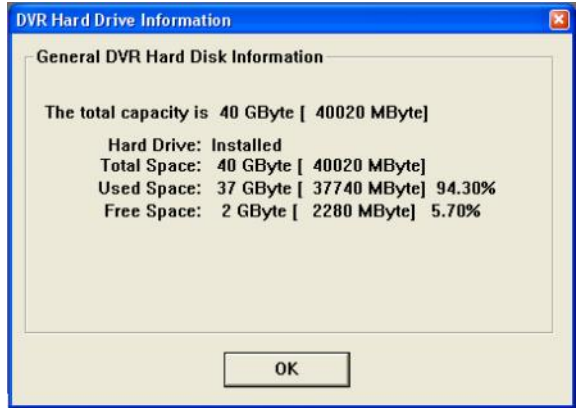


HDD

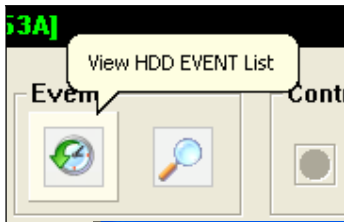
HDD,

HDD.

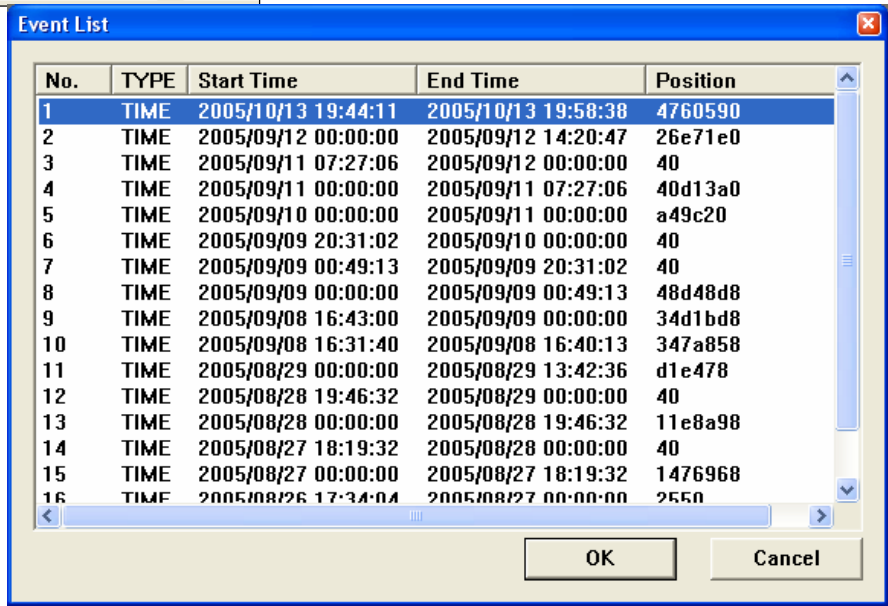
HDD



5.2.4



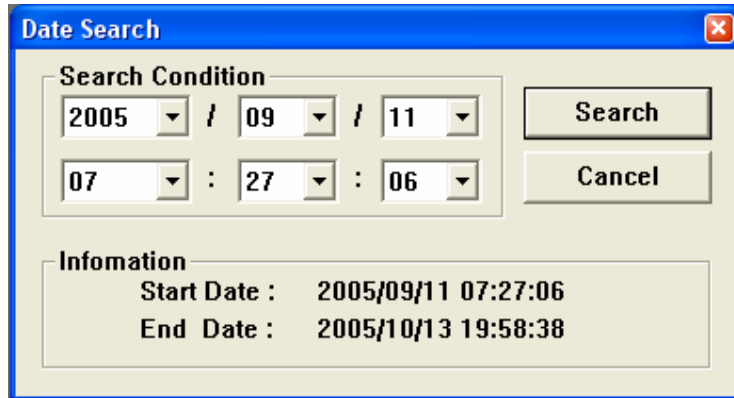
4 DVR



“Event” ,  
 “OK” ,

“Event List” .

5.2.5








“Information” , , , , , , . “Start Date” “End Date”

“Search” ,

5.2.6



-  Play -
-  Stop -
-  Pause -
-  Fast Forward - 128X.
-  Rewind - Play.

Play.

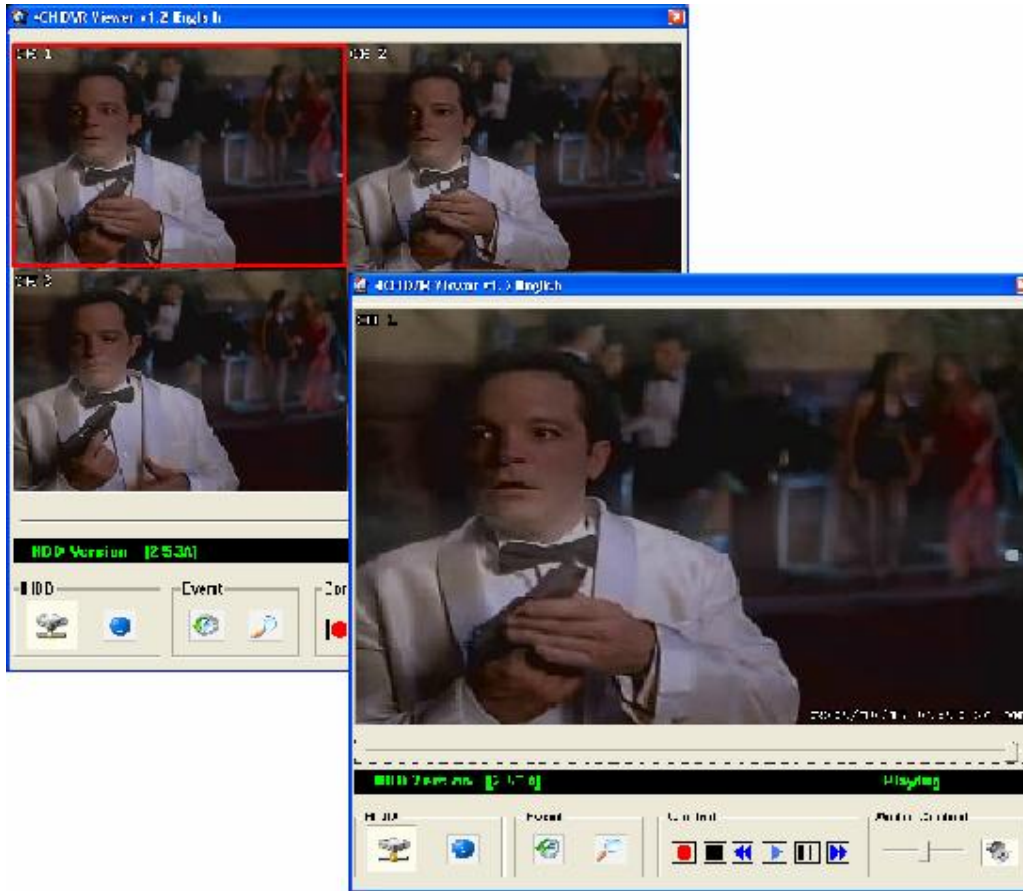


Record -

: AVI.

MPEG4.

### 5.2.7



Quad ( ).

### 5.2.8

### JPEG

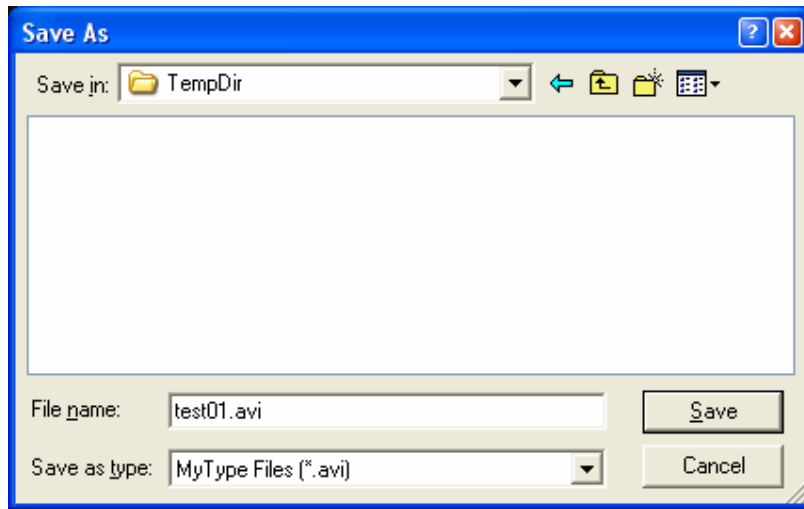
“DVR-image-001.jpg”

HDDViewer.exe.

“DVR-image-002.jpg,” “DVR-image-003.jpg”



5.2.9



(\*avi)

MediaPlayer10.



: MPEG4

# 6

		MDR-1000	
		4	
		2	
		NTSC / PAL	
	NTSC	640 * 480	
	PAL	640 * 576	
	NTSC	640 * 224	
	PAL	640 * 272	
	NTSC	120 / ( ) / 30 / ( )	
	PAL	100 / ( ) / 25 / ( )	
	NTSC	30 / ( ) / 7.5 / ( )	
	PAL	25 / ( ) / 6.25 / ( )	
		/	
		/	
		Motion JPEG	(8~20 /
( )	Low ( )	12 /	
	Normal( )	15 /	
	High ( )	20 /	
		/ (12 ,	
HDD		HDD * 2	40~250G 1EA,2EA
HARD RACK		HDD 1 EA: HARD RACK, HDD .	
		/	
			Rev1.0.1
		Multi viewer software	Ver1.2
Microsoft windows		Win_2000,Win_XP	
(12 )		+ 12	
/		4 / 1	
/		5~40C° /20~80%	
		4	
PTZ-		Pelco-D	( )



