

KONIG
SECURITY

SEC-DVR200
4CH HARDDISK
RECORDER



MANUAL

ANLEITUNG

MODE D'EMPLOI

GEBRUIKSAANWIJZING

MANUALE

MANUAL DE USO

HASZNÁLATI ÚTMUTATÓ

KÄYTTÖOHJE

BRUKSANVISNING

NÁVOD K POUŽITÍ

Installing harddisk:

1. Remove the cover by unscrewing the 4 screws at the bottom of the recorder.



2. Connect the power cord and data cable to harddisk. Use supplied screws to fix the harddisk to the chassis the recorder.



3. Replace the cover.

Connections:

1. Connect the video output of the recorder to the input of a monitor or TV.
2. Connect the cameras to the video input of the recorder.
3. Connect the AC/DC adapter to the 12V connection of the recorder.

Operation:

1. After connecting the AC/DC adapter the recorder turns on automatically. The recorder will boot-up and detect installed harddisk. Monitor will show Master and Slave harddisk information. Refer to harddisk manual for configuration of harddisk. (Master or Slave)



2. After HDD checking the following screen appears.

System information:






Upper left → ratio of harddisk space

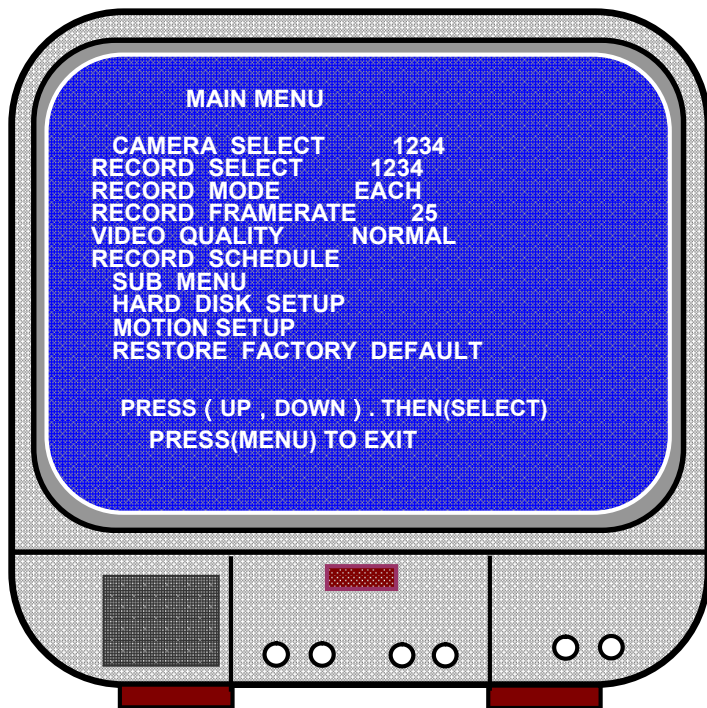
Middle → channel name
(CH1 ~ CH4)

Bottom right → function status,
date and time



Recorder setup:

Press “ Menu” into setup menu, use “ Up” and “ Down” to select item, press “ Select” to modify setting and “ Menu” to confirm and exit.

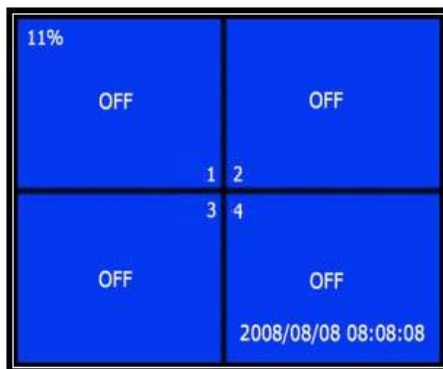


Overview menu:

Camera Select		
Record Select		
Record Mode		Auto Record
Record Frame Rate		
Video Quality		Password Setup
Record Schedule		
Sub Menu	├──	Password Change
Hard Drive Setup		
Motion Setup		Picture Setup
Restore Factory Default		Time Setup

Camera select:

The recorder can display 4 cameras in one picture (Quad Mode). Configure which camera to display: Press “← Select” to modify setting and press “ CH1”, “ CH2”, “ CH3”, “ CH4” to set each channel separately. If no channel is open, the recorder will display “OFF”.



Record select:

Select which camera(s) need to be recorded. Press “← Select” until desired selection is established.

Record mode:

There are two methods of recording

Each Mode

Record each channel separately, therefore it's possible to enlarge single channel to full screen display. For example, turn off record function of CH-1 and CH-2 and then the recorder only record CH3 and CH4.

Press “ CH1”, “ CH2”, “ CH3”, “ CH4” to choose channel to display when playback after recording.

In this mode, when the recorder is in watching or recording mode, press “QUAD” button over 3 seconds to make each channel video enlarge to full screen and then display in quad mode in sequence again and again. The recorder will not change its status until a key is pressed.

Quad Mode

Record all 4 channel video in quad mode. Therefore it's not possible to enlarge single channel to full screen. The use each mode during quad mode is not possible.

Record frame rate:

Record frame rate will affect the movement of object. More frames means more smooth movement but needs more space on the hard disk. System default value is 25 fps, that means system will record 25 frame per second. The recorder can set to 25, 12, 8, 6, 4, 3, 2, 1 frames per second.

Video quality:

There are three levels of record quality, High, Normal and Low. Higher quality cost more harddisk space. Record frame rate, record quality and will affect total record time of the recorder.

Estimate record time based on 120GB HDD in Quad Mode per hour

Format	Quality	Frame Rate	25	12	6	1
PAL	HIGH	20	70	146	291	1748
	NORMAL	15	93	194	388	2330
	LOW	12	117	243	485	2913

Record schedule:

The recorder can be set to recording by time schedule or by motion detection.

“-” = No record

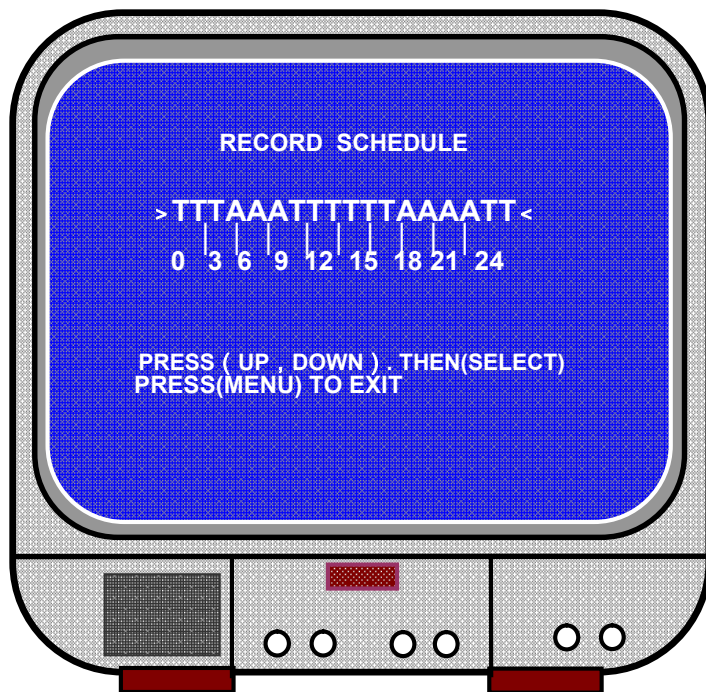
“T” = Continue (system default)

“A” = Motion triggered

▲ Up = Move the cursor

▼ Down = Move the cursor

↵ Select = Select method



Sub menu/auto record:

“ON”: the recorder will start to record automatically if the recorder has not been operated in five minutes.

“OFF”: the recorder will not record until the “RECORD” button is pressed.


Sub menu/password setup:

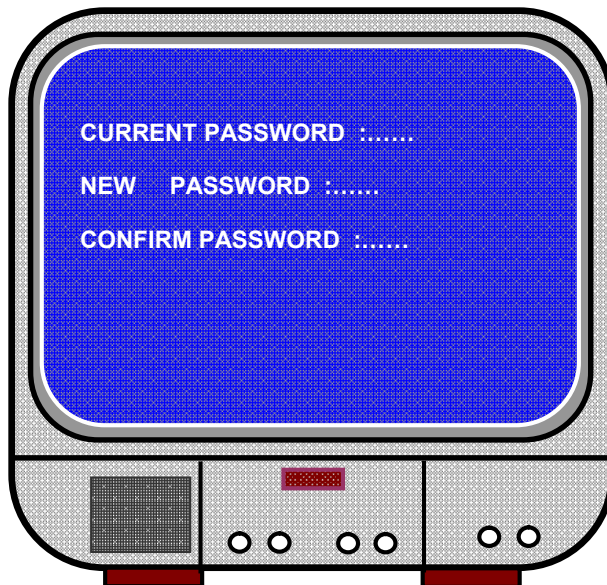
When password set is to “ON”, stop recording or enter menu will need password input.

When password is set to “OFF”, all functions are direct available.

Sub menu/password change:

System default password: press six times “ CH1” button.

All keys can be used as password key except “ Menu” key, which is used for confirming and exit.



Sub menu/picture setup:

Set every channel with the desired settings

HUE: 0-99

SATURATION: 0-99

CONTRAST: 0-99

BRIGHTNESS: 0-99

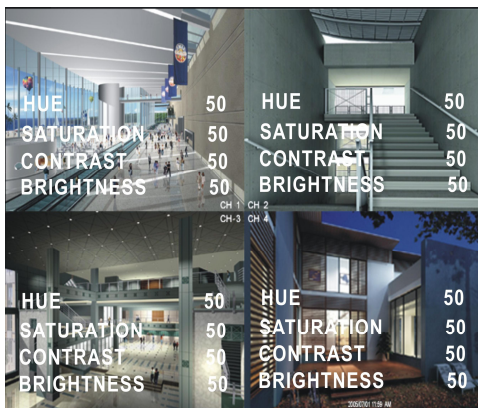
Button function:

▲Up/▼Down: move the cursor

FWD: reduce value

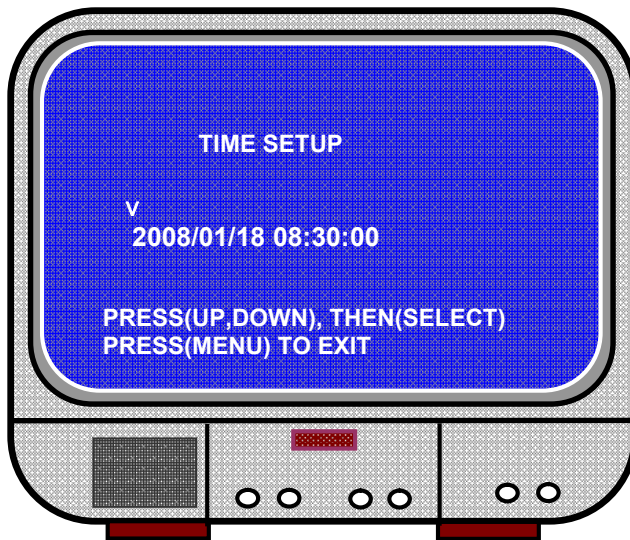
CH1-CH4, QUAD: select channel

 Menu: exit

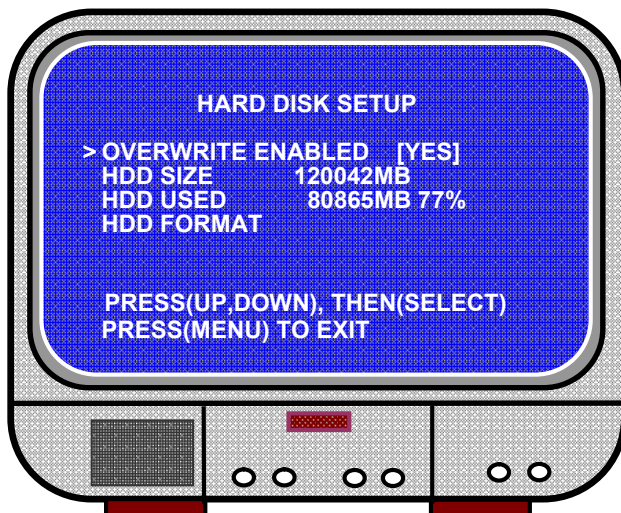


Sub menu/time setup:

Press **▲** Up and **▼** Down to move the cursor and press **↵** Select to modify. Press **☰** Menu to save and exit.



Hard drive set-up:



OVERWRITE ENABLED:

YES, continues recording and overwrite previous recording when hard disk is full.

NO, the recording session stops when hard disk is full.

HDD SIZE:

It shows the size of the primary hard disk installed in the recorder.

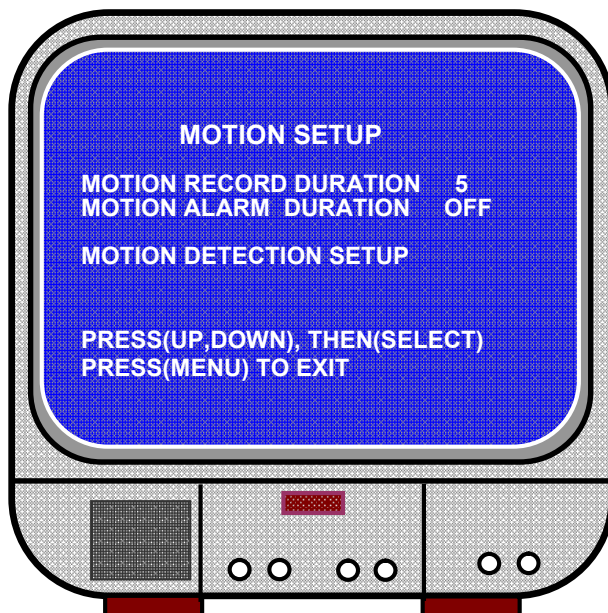
HDD USED:

It shows the space used on the first hard disk drive for recording and the percent of the used hard disk.

HDD FORMAT:

Format the hard disk will erase all the data recorded on the hard disk.

Note: when using the hard disk for the first time in the recorder, please use this function to format the HDD.

Motion setup:

MOTION RECORD DURATION:

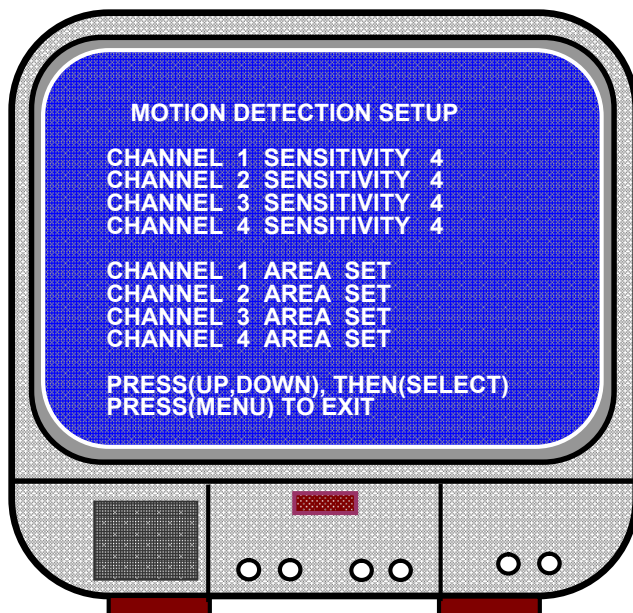
The number indicates how long motioned recording lasts after the movements in front of the camera.

MOTION ALARM DURATION:

The number indicates how long motioned display on the screen "MOTION".

MOTION DETECTION SETUP:

First setup video record method by Motion Triggered. See record schedule.

CHANNEL 1- 4 SENSITIVITY:

Press "← Select" to adjust sensitivity grade of motion detection. High (1-----9, OFF), Low. When it's off, the channel can not be triggered by movement.

CHANNEL 1- 4 AREA SET:

Press "← Select" to enter area setting state, the picture of selected channel is divided into 144 (12*12) blocks. Then press "REW" to move left, press "FWD" to move right, press "UP" to move up, press "DOWN" to move down, press "← Select" to set the block is active or not. When the block is transparent, it's active to record, when the block is covered by shadow, it will not activate recording if motion is triggered.

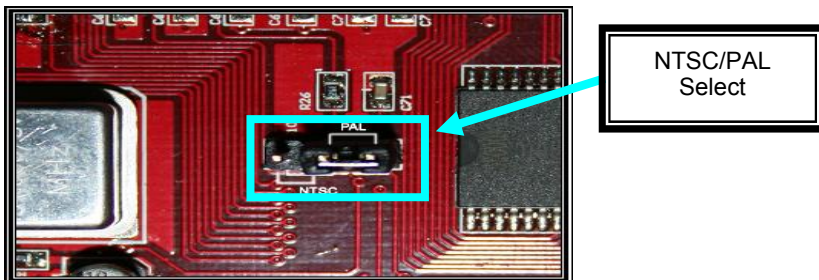
Restore factory default:

Press EDIT button to set factory settings.

Note: pressing the EDIT button will immediately restore all settings.

PAL/NTSC setting:

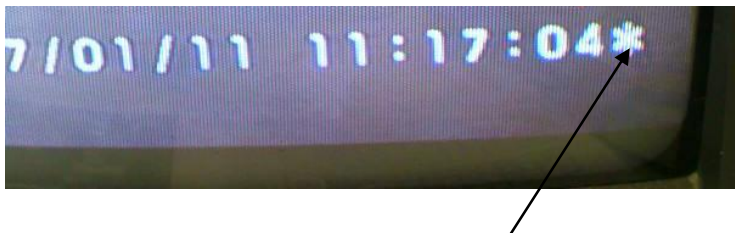
Set the jumper on the PCB to PAL or NTSC



Recording:

Press "Record" to start recording. The recorder will display information on screen.

Note:



When the data has been overwriting, there will be a star sign behind Date/Time.

On screen information:








1. Hard Disk Usage Ration
2. Recording Symbol
3. Channel Names
4. Mode: (QUAD or EACH)
5. Status: (REC, Play, FF1, FF2, FF3, REW, PAUSE)
6. Harddisk Info: ([M] Master disk [S] Slave disk)
7. Record Schedule: (T) Continuous (A) Motion (-) No Record
8. The time and date.

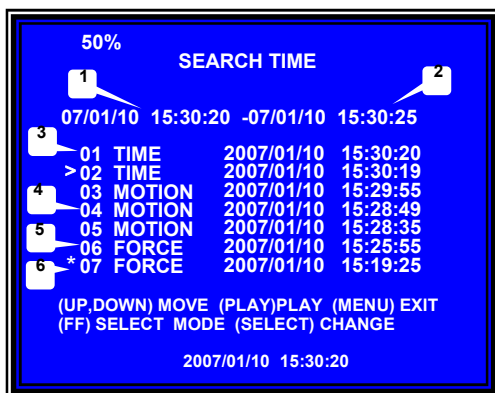
Stop recording:

Press “Stop” and the recorder will ask for the password (if password is enabled)






Playback:

Press  Play, the recorder will playback the last recorded data that hasn't been playback yet.

Press  Menu, the recorder will list all recorded files. Last recorded file will be at top of the list, press “ Move Up” and “ Move Down” to select start time and press “ Play” again to start playing the file.



1. Start time
2. End time
3. Time: continued recording
4. Motion: recording by motion detection
5. Force: force record
6. * file not played yet

Another way to search video is directly input time period. Press “ Forward” and then press “ Up” and “ Down” the cursor. Press “ Select” to edit time value and press “ Play” to play video.


 2007 / 0 1 / 0 8 08 : 30 : 32 --- 2007 / 0 1 / 0 8 16 : 00 : 05

Recover lost data:

Power error will cause data lost and the recorder will ask for 'recover data' please press "← Select" to proceed.

Restore recording process:

When power error happen during recording process, system will automatically restore recording process after power reconnected.

Specifications:

ITEM		DESCRIPTION	NOTE
Video Format		NTSC / PAL	
Operation System		None	STAND-ALONE
Camera Input Channel		4 channel Composite BNC	
Video Output Channel		1channel Composite BNC	
Display Frame Rate	NTSC	120 frames/second	4 x 30 frames/second
	PAL	100 frames /second	4 x 25 frames/second
Recording Frame Rate (Quad)	NTSC	Max 30 fps (Quad)	Quad Mode
	PAL	Max.25 fps (Quad)	Quad Mode
Recording Frame Rate (Each Mode)	NTSC	Each Channel = 30 ÷ Number of Source	Max. 30 frames/s (Each Channel)
	PAL	Each Channel = 25 fps ÷ Number of Source	Max. 25 frames/s (Each Channel)
Record Mode		Continuous, Time Schedule, Motion Triggered.	
Resolution	Display	NTSC : 720 x 480 PAL : 720 x 576	
	Record	NTSC : 320 x 112, 640 x 224 PAL : 320 x 136, 640 x 272	Quad : 640 x 224 (total) Each : 640 x 224
Video Compression Format (Each Channel)		Modified Motion-JPEG (12-20K bytes/frame)	Low : 12K Byte Normal : 15K Byte High : 20K Byte
HDD Support		300G Byte (Seagate recommended)	ATA -100 Interface
Estimated Record Length		120G Hard disk @ 7 fame per second @ Normal Quality (120*1024*1024 K byte) ÷ (7*15*60*60) = 332 Hours	
Search	Method	Time, Date, Event	
	Full Screen	YES	
Dimension (D x W x H)		215mm * 132mm * 80mm	

Safety precautions:

To reduce risk of electric shock, this product should ONLY be opened by an authorized technician when service is required. Disconnect the product from mains and other equipment if a problem should occur. Do not expose the product to water or moisture.

Warranty:

No guarantee or liability can be accepted for any changes and modifications of the product or damage caused due to incorrect use of this product.

General:

Designs and specifications are subject to change without notice. All logos brands and product names are trademarks or registered trademarks of their respective holders and are hereby recognized as such.

**Attention:**

This product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collections system for these products.

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