QSD2014 User's Manual

INDEX

Chapter 1 : DVR Features

DVR Features

- MPEG4 Compression;

- Video Input / Output：4-CH Video Input- 1-CH Video Output;

- Good Image quality, High definition;

- System Format: NTSC/PAL；

- Uses SOC chip with high stability;

- Linux operation System;

- Supports Multiple recording Modes: Continuous, Motion Detection, Time Schedule

- Supports Event List and Search/Playback by specified time;

- Supports Hidden Channel and Playback display;

- Missing Video signal Alarm Function;

- Password Protection Function；

- Supports IR Remote Control；

- Supports SATA hard drive up to 500GB；

Chapter 2 : Layout

2.1 Front Panel

IR Receiver

CH1 #1	Channel #1	■ Stop #10	Stop recording / playing
CH2 #2	Channel #2	● REC #11	Record
CH3 #3	Channel #3	Menu/Esc #12	Enter / exit setup menu
CH4 #4	Channel #4	SEL/Edit #13	Select / modify item
Quad #5	Quad View	▲ Up #14	Move up
◄◄ REW #6	Rewind/Move Left	▼ Down #15	Move down
▌▌ Pause #7	Pause	PWR #16	Power indicator LED
► Play #8	Play recorded video	HDD #17	Hard drive indicator
►► FWD #9	Forward/Move Right		

2.2 Rear Panel

1 BNC video output   4 BNC video inputs

Fan

Power Supply Input   Grounding Terminal
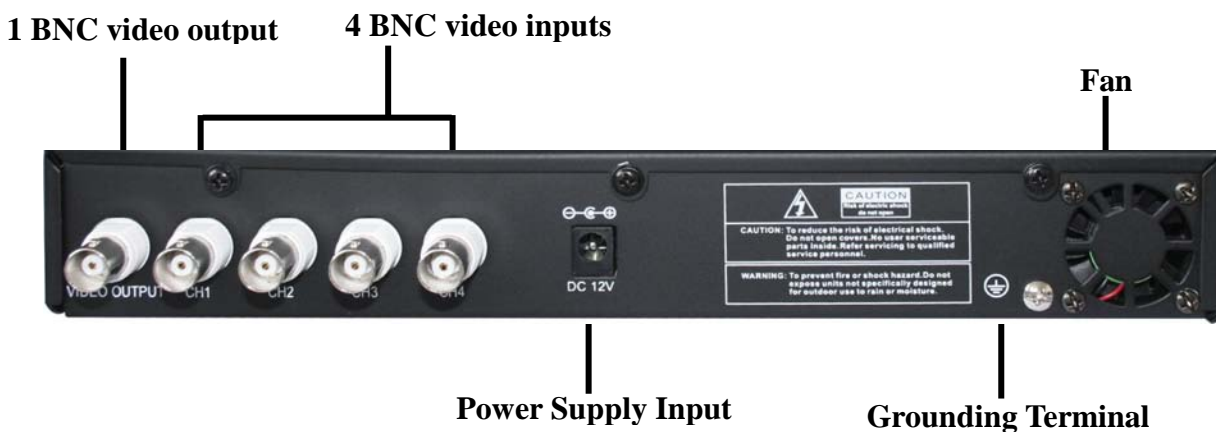
USB Port is located on the right side of the case when viewing from the front.

2.3 Remote Control

1-9	Channel Select and numbers 1-9
0	Number
ALL	Display all Channels
Menu	Enter or Exit Menu
▲	Move Up
▼	Move Down
SEL	Select /Modify Item
◀◀	Rewind/Move Left
▶▶	Fast Forward
◀	Move Left
▶	Play Recording/Move Right
●	Record
❚❚	Pause
■	Stop Recording/Playback
Audio	Audio Input/Output
Mute	Mute Audio

Chapter 3 : DVR Installation

3.1 Hard Disk Installation

Notice: Don't take out the HDD when DVR is running.

    (1) Remove the top cover carefully;

    (2) Connect the power cord and data cable to hard drive;

    (3) Replace the top cover;

3.2 Connecting Camera and Monitor

Attach the Camera cable to the DVR's BNC video inputs, and DVR's video output signal to Monitor's video input jack respectively (refer to Chapter-2.2 Rear Panel shown)

3.3 Connecting Power Supply

Please only use the power adapter supplied with the DVR.

Chapter 4 : Starting the DVR

4.1 Firmware version

```
V2.X
V-EN-BG
2008.XX.XX
```
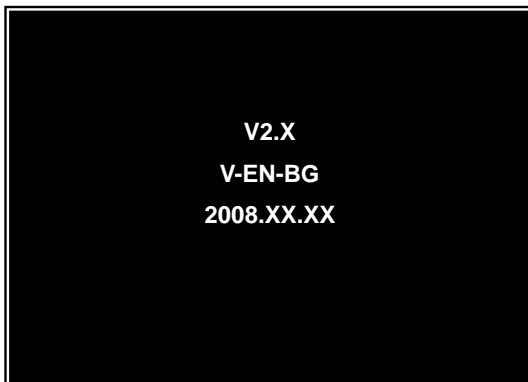
After turning on the unit, DVR will boot-up and display the current version and release date of the DVR firmware.

4.2 Detecting Installed Hard Drive

```
MASTER [MAXTOR STM3250310A]
SLAVE......
```
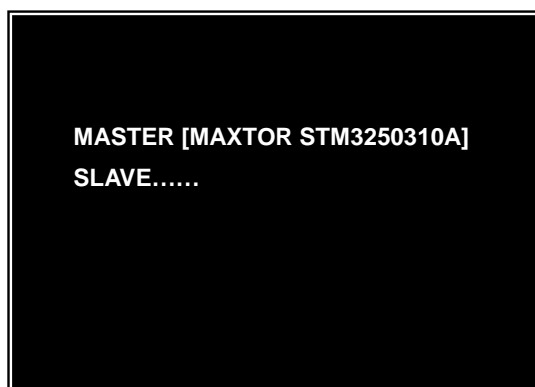
During start up, DVR will automatically detect the installed hard drive and show the hard drive information.

4.3 Format Hard Drive

```
CHECKING HDD......
MASTER  [MAXTOR  STM3250310A]–NEW–DVR
FORMAT HDD CONFIRM
(SELECT) FORMAT / (MENU) CANCEL?
```
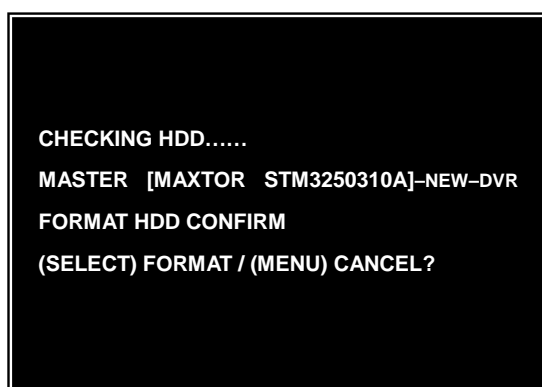
When detecting a new hard drive, DVR will automatically prompt you if you need to format the hard drive before recording.

Please press [SEL] to format, or [MENU] to cancel, and then start system.

Chapter 5 : DVR Menu System

5.1 Browsing the Main Menu

```
          MAIN MENU
 ▶ CAMERA SETUP
   RECORD SETUP
   RECORD FRAMERATE
   VIDEO QUALITY              HIGH
   RECORD SCHEDULE
   SENSOR SETUP
   HARD DRIVE SETUP
   MISCELLANEOUS SETUP
   RESET MENU

( ◀◀▲▶▶ ) MOVE (SEL) SELECT   (MENU)EXIT
```

When start up is finished, please press [MENU] to enter the Main Menu.

5.2 Menu Directory

```
                    ┌── Camera    Setup
                    │
                       Record Setup
                    │
                       Record Framerate              ┌── Change Password
                    │                                 │
                       Video Quality                  ├── Set Time
                    │                                 │
 Main Menu ─────────    Record Schedule               ├── Hidden Channel
                    │                                 │
                       Sensor Setup                   ├── Image Parameters
                    │                                 │
                       Hard Drive Setup               ├── Password Enable
                    │                                 │
                       Miscellaneous Setup ───────────┤   Keypad Tones
                    │                                 │
                    └── Reset Menu                     ├── SEQ. DWELL TIME
                                                      │
                                                      └── VIDEO LOSS SOUND
```

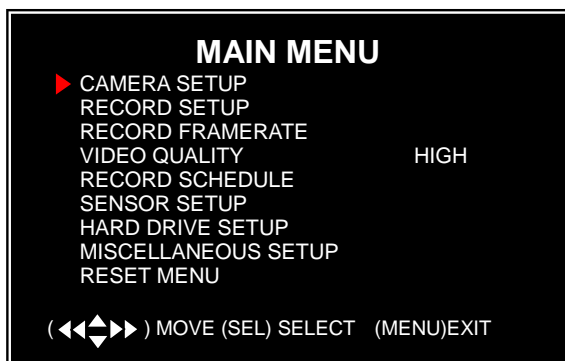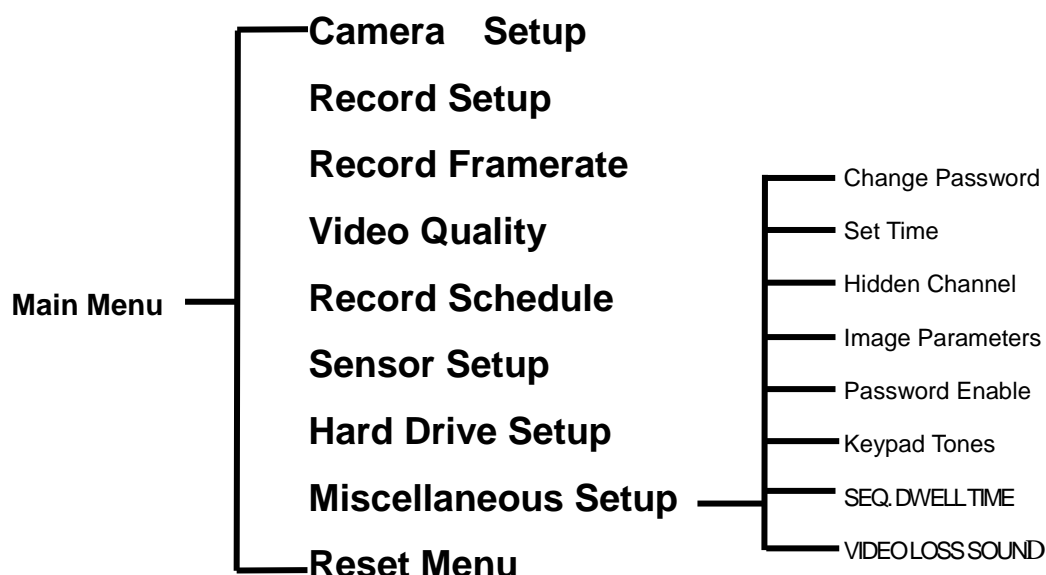**Note:** When the DVR is not setup to use a function, the option will not appear in the Menu. e.g. If a camera channel is set to off, the item-"Audio Setup" will not be in the Menu.

5.3 Camera Setup

```
 1 ▶ on                    2  on
          Channel Setup



 3  on                     4  on


( ◀◀▲▶▶ ) Move (SEL) Select   (MENU) Esc
```
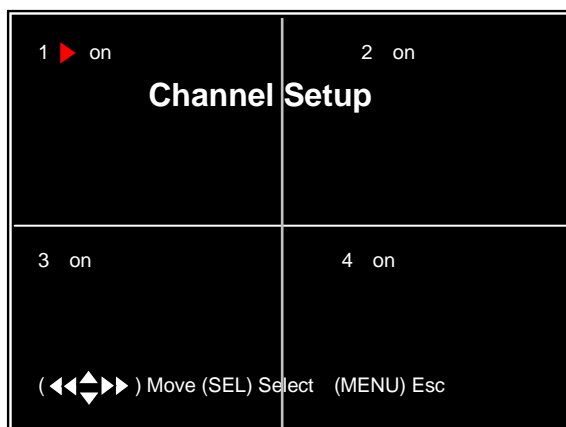
Camera Setup allows you to turn cameras on or off.

Press [▲ , ▼ , ◀◀ and ▶▶] button s to select a channel, and then press [SEL] to modify the setting to "on" or "off".

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Note : If a channel is disabled in Channel Setup, DVR will not record or set frame rate.

5.4 Record Setup

```
            1  ON              2 ▶ NO
                  Record Setup

            3  ON              4  ON



       (◀◀⬥▶▶) MOVE (SEL)  SELECT  (MENU) ESC
```

Record Setup allows you to set up recording channels. Press [▲ , ▼ , ◀◀ and ▶▶] to select a channel, and then press [SEL] to change the setting to on or off.

If a channel is disabled in Camera Setup, it will not be recorded, and the characters "NOCAM" will be displayed on screen.
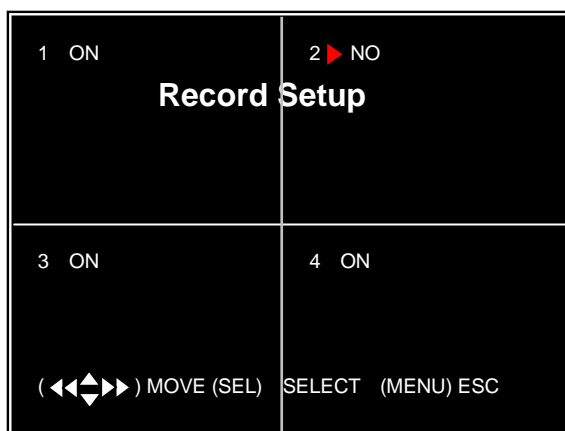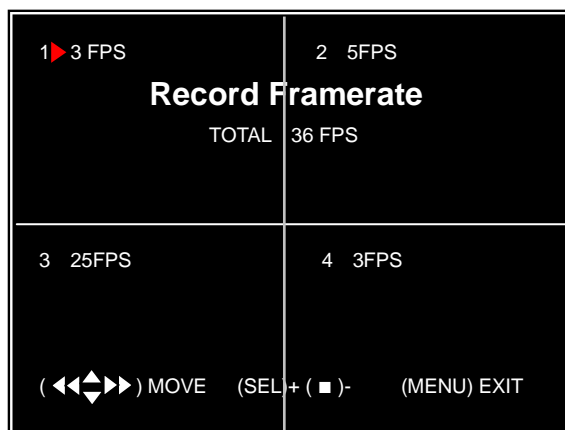
5.5 Record Framerate

```
       1▶ 3 FPS           2  5FPS
              Record Framerate
              TOTAL  36 FPS

       3  25FPS           4  3FPS



    (◀◀⬥▶▶) MOVE   (SEL)+ (■)-    (MENU) EXIT
```

The total frame rate is 50fps (PAL) or 60fps (NTSC). You can set the frame rate for each channel to meet your requirements up to the 50fps or 60fps limit.

Press [▲ , ▼ , ◀◀ and ▶▶] buttons to select a channel, and then press [SEL] to increase the value or press [■STOP] to reduce the value.

Note: Higher frame rate shows smoother video, but requires more hard-drive space.

5.6 Video Quality

```
              Main Menu
         CAMERA SETUP
         RECORD SETUP
         RECORD FRAMERATE
       ▶ VIDEO QUALITY          HIGH
         RECORD SCHEDULE
         SENSOR SETUP
         HARD DRIVE SETUP
         MISCELLANEOUS SETUP
         RESET MENU

       (◀◀⬥▶▶) MOVE (SEL) SELECT (MENU) ESC
```
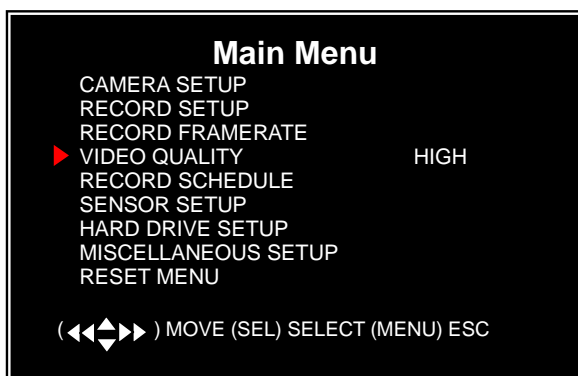
Video Quality has 4 different settings, including: Highest, High, Normal and Low.

The Higher the video quality, the better the quality of Images, However higher quality images require more hard drive space.

Press [SEL] button to change the quality setting.

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5.7 Record Schedule

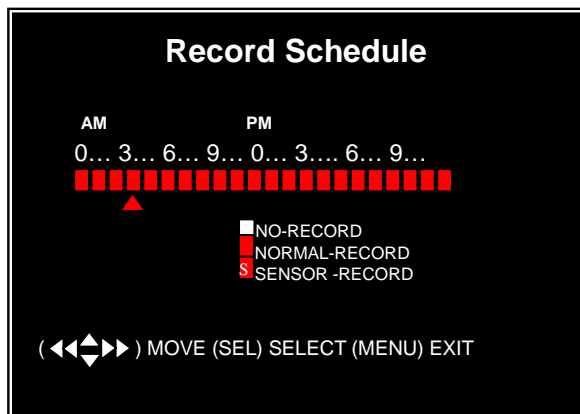Setting the Record Schedule allows you to customize the type of recording you want to use depending on the time of day.

The time line indicates 24 hours of a day based on AM/PM (0=12).

Press [▲ , ▼ , ◄◄ and ►►] buttons to select a time point, press [SEL] to modify the recording mode.

NO-RECORD [☐**WHITE**]:DVR will not record during this period.
NORMAL RECORD [■**RED**]:DVR will record continuously during this period.
SENSOR RECORD [**S**]:DVR will record when sensor or motion is triggered

Note: In order to activate the record schedule, please press [●REC] button to start Record schedule, otherwise, DVR will not start recording.

5.8 Sensor Setup
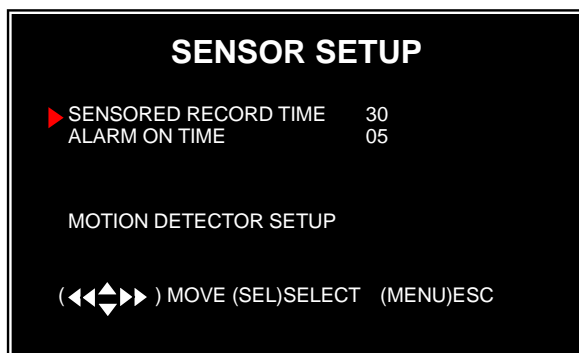
Sensor Record Time indicates how long the recording file remains open after the motion ends. After this time the next alarm starts a new file.

Alarm on time indicates how long the buzzer will sound when motion is detected.

CONT: Continuous alarm until any key is pressed…
OFF: No alarm
Note: Sensored Record Time and Alarm On Time are measured in seconds.

5.9 Motion Detector Setup

This section allows you to set up motion detection options for each camera.
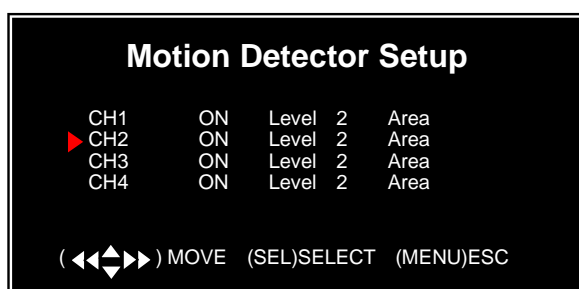
On/off: Enable or disable motion detection recording.

Level: Sensitivity for motion detection. There are 3 levels of sensitivity: Level 1 to 3 with 3 the highest.

Area: Select detectable area on the screen.

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Area Selection : Press [▲ , ▼ , ◄◄ and ►►] buttons to select a block and then press [SEL] button to set the block to detect motion. The area is detectable when it is clear, the area is not detectable when it is covered by shadow.

Press "Stop" button to disable all areas, and press "Quad" button to select all areas.

5.10 Hard Drive Setup

```
            Hard Drive Setup

►  OVERWRITE ENABLED        [ON]
   MAXTOR   STM250310AS
   MASTER HDD SIZE          250203MB
   MASTER HDD USED          124931MB    50%
   MASTER HDD FORMAT

   SLAVE HDD SIZE           N/A
   SLAVE HDD USED           N/A
   SLAVE HDD FORMAT

 ( ◄◄▲▼►► ) MOVE (SEL)SELECT (MENU)EXIT
```
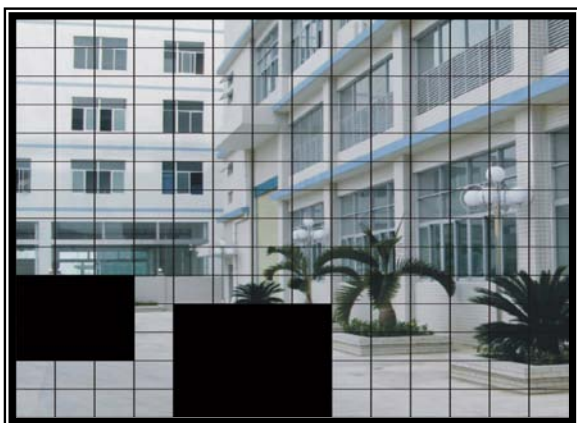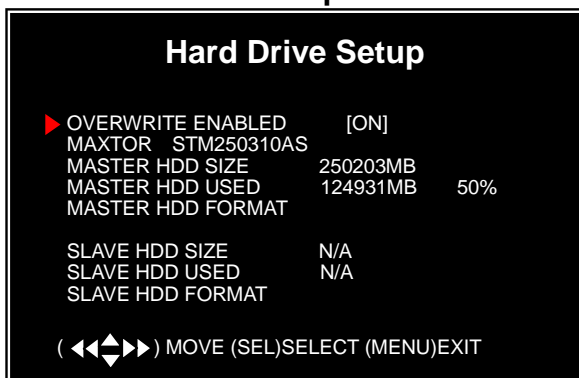
OVERWRITE ENABLED :

ON: System overwrites oldest files when hard drive is full;

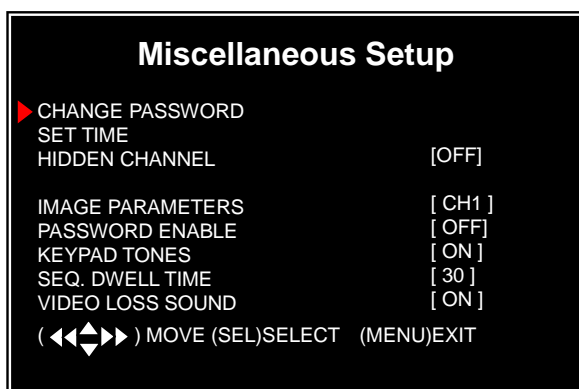**OFF:** System stops recording when hard drive is full.

HDD SIZE : indicates the total capacity of the hard drive installed in the DVR.
HDD USED : indicates the space used in the hard disk drive for recording and the percent used.
HDD FORMAT : will erase all video and data on the installed hard drive and make it readable by the DVR.
Note: You will be prompted for the password when formatting a hard drive and the default password is "111111".

5.11 Miscellaneous Setup – Change Password

```
          Miscellaneous Setup

► CHANGE PASSWORD
  SET TIME
  HIDDEN CHANNEL             [OFF]

  IMAGE PARAMETERS           [ CH1 ]
  PASSWORD ENABLE            [ OFF]
  KEYPAD TONES               [ ON ]
  SEQ. DWELL TIME            [ 30 ]
  VIDEO LOSS SOUND           [ ON ]
 ( ◄◄▲▼►► ) MOVE (SEL)SELECT  (MENU)EXIT
```

This option allows you to change the system password. The password must be six characters. All keys can be used as a password key except the [MENU] key, which is used to exit.

```
  CURRENT PASSWORD        [- - - - -]

  NEW      PASSWORD       [- - - - -]

  COMFIRM PASSWORD        [- - - - -]
```
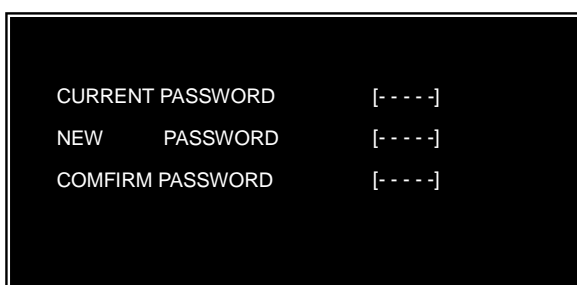
Enter the current password first, and then enter six characters as your new password, repeat the new password to confirm.

If you forget your password, please free feel to contact Q-See tech support for assistance.

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5.12 Miscellaneous Setup – Set Time

SET TIME

2008/11/11   17:50:01

(◄◄▲▼►►) MOVE   (SEL) SELECT (MENU) ESC

The system date and time format is YYYY/MM/DD and HH:MM:SS.
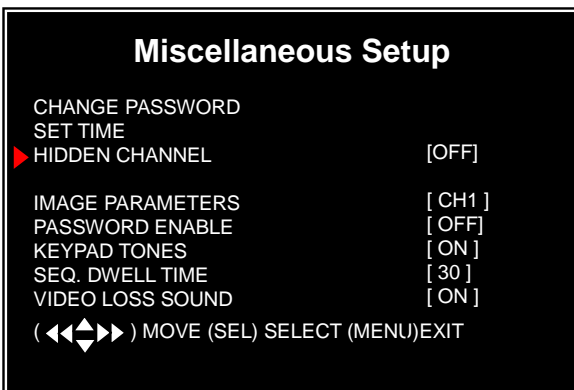
Press [◄◄] or [►►] buttons to select a data, press [SEL] button to modify the data, and press [MENU] button to save and return to previous menu.
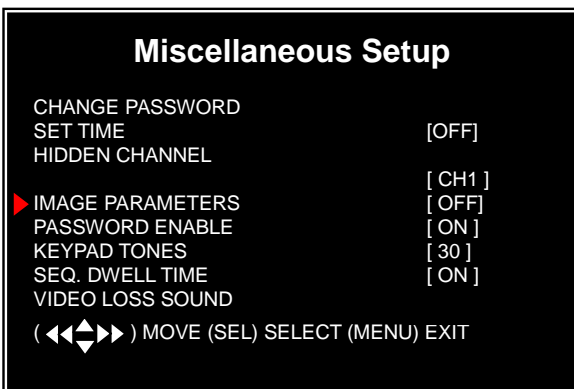
5.13 Miscellaneous Setup – Hidden Channel

Miscellaneous Setup

CHANGE PASSWORD
SET TIME
► HIDDEN CHANNEL   [OFF]

IMAGE PARAMETERS   [CH1]
PASSWORD ENABLE   [OFF]
KEYPAD TONES   [ON]
SEQ. DWELL TIME   [30]
VIDEO LOSS SOUND   [ON]
(◄◄▲▼►►) MOVE (SEL) SELECT (MENU)EXIT

The system provides a function to hide a channel in monitoring mode. The selected channel can still be recorded while it's hidden; but the video will not be viewable on the live screen.

Press [SEL] to select a channel to hide.

5.14 Miscellaneous Setup – Image Parameters

Miscellaneous Setup

CHANGE PASSWORD
SET TIME   [OFF]
HIDDEN CHANNEL
                                        [CH1]
► IMAGE PARAMETERS   [OFF]
PASSWORD ENABLE   [ON]
KEYPAD TONES   [30]
SEQ. DWELL TIME   [ON]
VIDEO LOSS SOUND
(◄◄▲▼►►) MOVE (SEL) SELECT (MENU) EXIT

You can adjust the image parameters to meet your needs. The controls are shown below:

CAMERA 3

CON   64%
BRI   64%
HUE   64%
SAT   64%

(▲▼) MOVE (▷) + (◁) - (MENU) EXIT
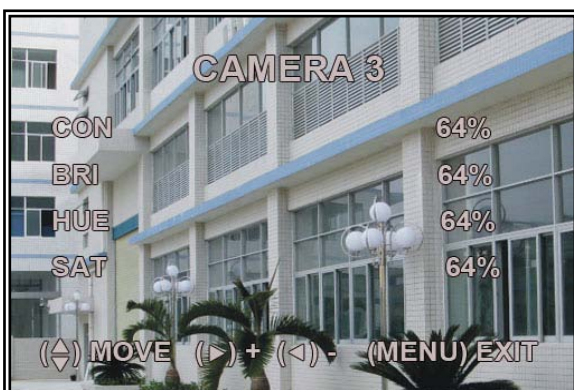
CON : Contrast
BRI : Brightness
HUE : Hue (color)
SAT : Saturation (color)

Press [▲] or[▼] buttons to select the item, and press [◄◄] or [►►] buttons to adjust the setting.

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5.15 Miscellaneous Setup – Password Enable

```
            Miscellaneous Setup

CHANGE PASSWORD
SET TIME
HIDDEN CHANNEL                    [OFF]

IMAGE PARAMETERS                  [ CH1 ]
▶ PASSWORD ENABLE                 [ OFF]
KEYPAD TONES                      [ ON ]
SEQ. DWELL TIME                   [ 30 ]
VIDEO LOSS SOUND                  [ ON ]
( ◄◄▲▼►► ) MOVE (SEL) SELECT (MENU) EXIT
```
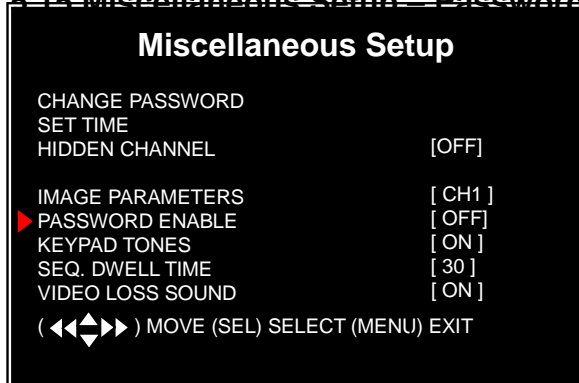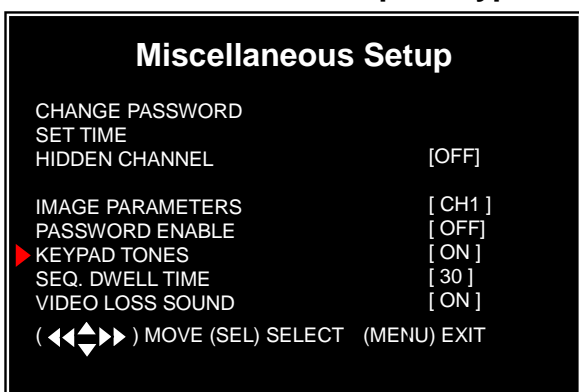
When Password Enable is set to "on", the password will be required and must be entered correctly; otherwise, you will not be able to enter the system.
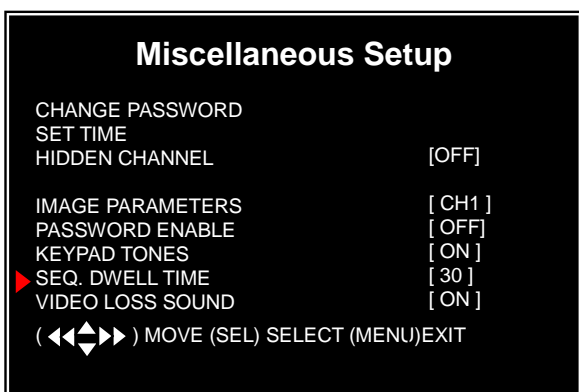
Entering the password will not be required if you set to "off" (except of formatting hard drive and menu reset)

5.16 Miscellaneous Setup – Keypad tones

```
            Miscellaneous Setup

CHANGE PASSWORD
SET TIME
HIDDEN CHANNEL                    [OFF]

IMAGE PARAMETERS                  [ CH1 ]
PASSWORD ENABLE                   [ OFF ]
▶ KEYPAD TONES                    [ ON ]
SEQ. DWELL TIME                   [ 30 ]
VIDEO LOSS SOUND                  [ ON ]
( ◄◄▲▼►► ) MOVE (SEL) SELECT   (MENU) EXIT
```

This function allows you to enable or disable beeper sound when pressing [SEL] button to select ON or OFF.

5.17 Miscellaneous Setup- SEQ. DWELL TIME

```
            Miscellaneous Setup

CHANGE PASSWORD
SET TIME
HIDDEN CHANNEL                    [OFF]

IMAGE PARAMETERS                  [ CH1 ]
PASSWORD ENABLE                   [ OFF ]
KEYPAD TONES                      [ ON ]
▶ SEQ. DWELL TIME                 [ 30 ]
VIDEO LOSS SOUND                  [ ON ]
( ◄◄▲▼►► ) MOVE (SEL) SELECT (MENU)EXIT
```

Press [◄◄], [►►] buttons to select Seq. Dwell time and select "on" / "off" to enable or disable individual camera sequential display.

Remark: Seq. Dwell Time Option can be 1sec, 5sec, 10sec, 15sec, 30sec, or 60sec

5.18 Miscellaneous Setup- VIDEO LOSS SOUND

```
            Miscellaneous Setup

CHANGE PASSWORD
SET TIME
HIDDEN CHANNEL                    [OFF]

IMAGE PARAMETERS                  [ CH1 ]
PASSWORD ENABLE                   [ OFF ]
KEYPAD TONES                      [ ON ]
SEQ. DWELL TIME                   [ 30 ]
VIDEO LOSS SOUND                  [ ON ]
(          ) MOVE (SEL) SELECT (MENU)EXIT
```
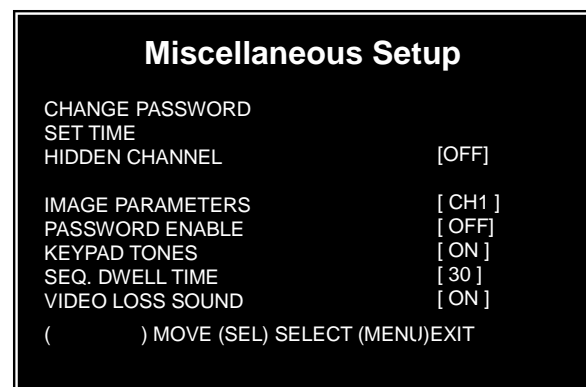
This function allows you to enable or disable buzzer sound when pressing [SEL] button to select ON or OFF.
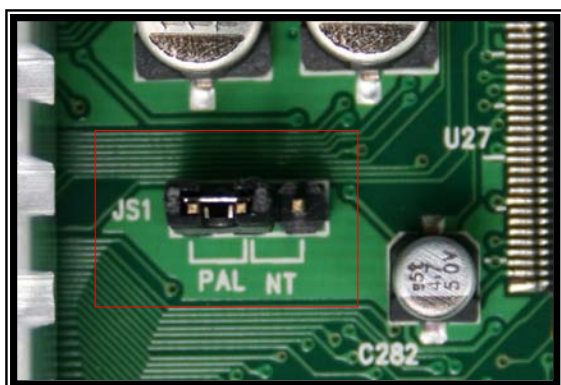
11

◁◁◈▷▷

5.19 RESET MENU

System allows you to reset all your settings to the DVR factory default. You need to enter your password to reset the menu.

5.20 NTSC/PAL Output Select

Change the jumper JS1 to select NTSC or PAL video output format shown on the silkscreen shown in the picture on the left. The picture shows the setting for PAL, move the jumper to the right side for NTSC

Chapter 6 : Record

6.1 Starting Recording

Press [●REC] button to start the record according to the record schedule you have set. There will be a [●] red icon shown in the top left of the screen when recording.

[●]：Indicates that the channel is being recorded.

[**A-REC**]：Indicates the current record schedule is set to NORMAL-RECORD mode.

[**S-REC**]：Indicates the current record schedule is set to SENSOR-RECORD mode.

[**N-REC**]：Indicates the current record schedule is set to NO-RECORD mode.

[**39%**]：Indicates the percentage of hard disk space used.

[**M**]：HDD info ([M] MASTER HDD；[S] SLAVE HDD).

6.2 Audio Recording

[🔊]：indicates this video channel is assigned an audio port, and the audio output is on.

[🔈]： indicates the audio output is off.

[🔊]：indicates the audio is being recorded and the audio output is on.

You could press the [DOWN] button on front panel to mute the audio output, The audio input can be still recorded while the output is muted.

6.3 Stopping Recording

Press [■STOP] button to stop recording. If password protection function is enabled, system will prompt you to input password. Only correct password can stop recording process.

6.4 Estimated Recording Time

Estimated record time based on 160GB HDD

Standard	Quality	60fps	48fps	32fps	16fps	1fps
NTSC	Highest	62	78	116	232	3720
	High	88	110	165	330	5280
	Normal	107	134	201	401	6420
	Low	120	150	225	450	7200

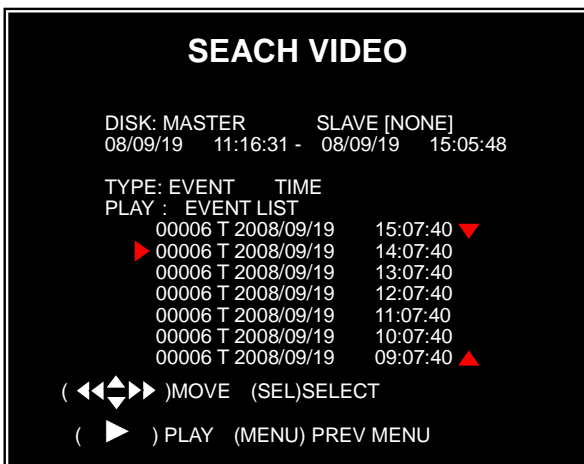| Standard	Quality	50fps	36fps	24fps	12fps	1fps
PAL	Highest	64	89	133	267	3200
	High	90	125	188	375	4500
	Normal	110	153	229	458	5500
	Low	123	171	256	513	6150

Unit： Hour

Chapter 7 : Playback

7.1 Playback Control

Press the [►] PLAY button to go into PLAYBACK mode. The newest recorded event will be played.

```
            SEACH VIDEO

   DISK: MASTER        SLAVE [NONE]
   08/09/19   11:16:31 -  08/09/19   15:05:48

   TYPE: EVENT     TIME
   PLAY :  EVENT LIST
        00006 T 2008/09/19      15:07:40 ▼
      ► 00006 T 2008/09/19      14:07:40
        00006 T 2008/09/19      13:07:40
        00006 T 2008/09/19      12:07:40
        00006 T 2008/09/19      11:07:40
        00006 T 2008/09/19      10:07:40
        00006 T 2008/09/19      09:07:40 ▲
 ( ◀◀◆▶▶ )MOVE   (SEL)SELECT

   (   ▶   ) PLAY   (MENU) PREV MENU
```

Press the [MENU] button in Playback mode，the system will list all the recorded events. The latest record will be on top of the list. Press the [▲UP] or [▼DOWN] buttons to select an event and then press [►] to play the event.

Chapter 8 ： USB Program

8.1 Software Installation
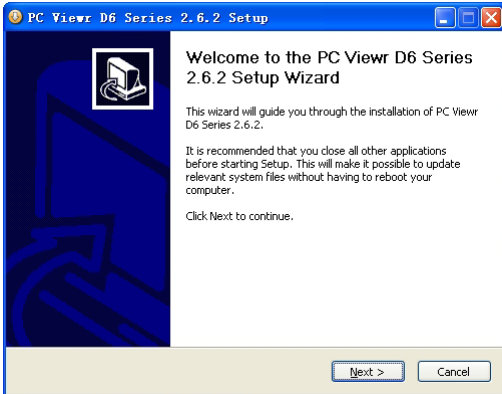
Insert software CD to your CD-ROM drive;

Open CD directory;

Run "Installation" program;

Follow the setup wizard to finish the installation.

8.2 Program Interface

Button functions :

NOTE: Since this DVR does not support PTZ cameras the functions marked as 1 and 2 will not work.

|	
1. PTZ Control(NO Function)	11. Convert Streams to AVI file
	12. Fast Rewind 60s
3. HDD Play Mode	13. Fast Rewind 10s
4. FILE Play Mode	14. Forward
5. NET Play Mode	15. Stop
6. Event List	16. Playback
7. Program Local Setting	17. Fast Forward 10s
8. Remote DVR Control	18. Fast Forward 60s
9. Shift Storage Device	19. Playback Slider

| 10. Capture Image	20. Audio Slider

8.3 Program Running

8.3.1 HDD Play Mode

System will detect HDD automatically when you connect DVR to your PC with USB cable. An icon "![icon]" will appear in the system tray (right bottom corner of the screen). After seeing this icon, double-click the "![icon]" icon on your desktop to run the program.

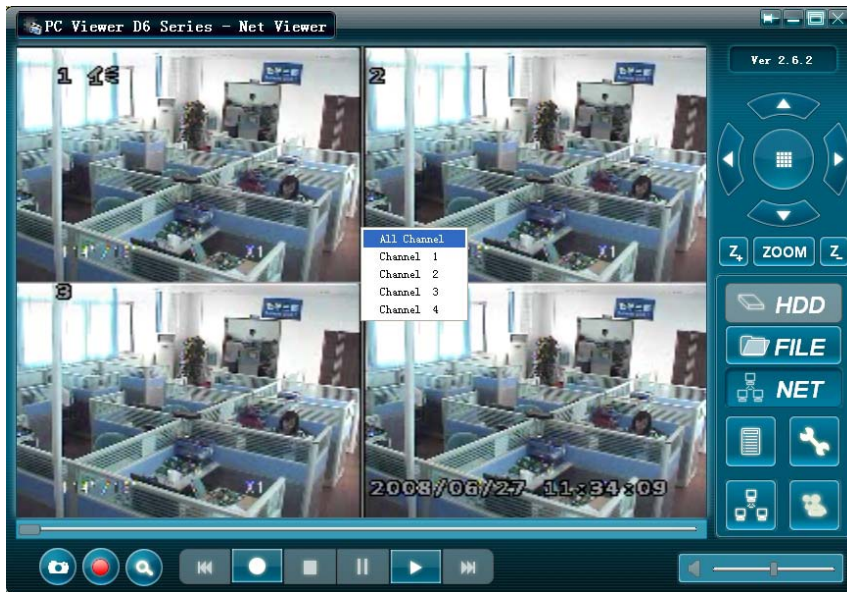Note: If you do not strictly follow above-mentioned steps, the program may fail to read recorded files.

Press the "![icon]" button to open the video event list.
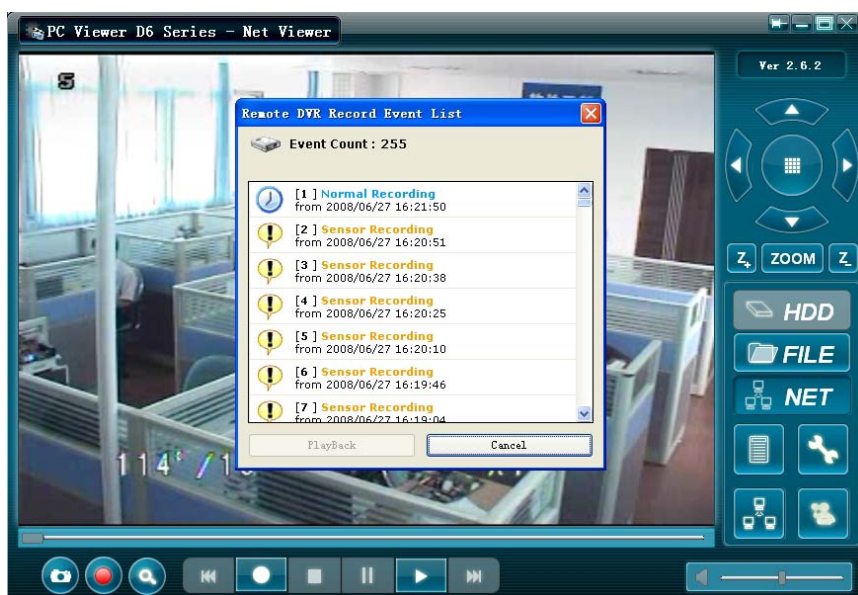
Press the "![icon]" button to access the program local settings. E.g.: Save location settings for capture image and AVI record files
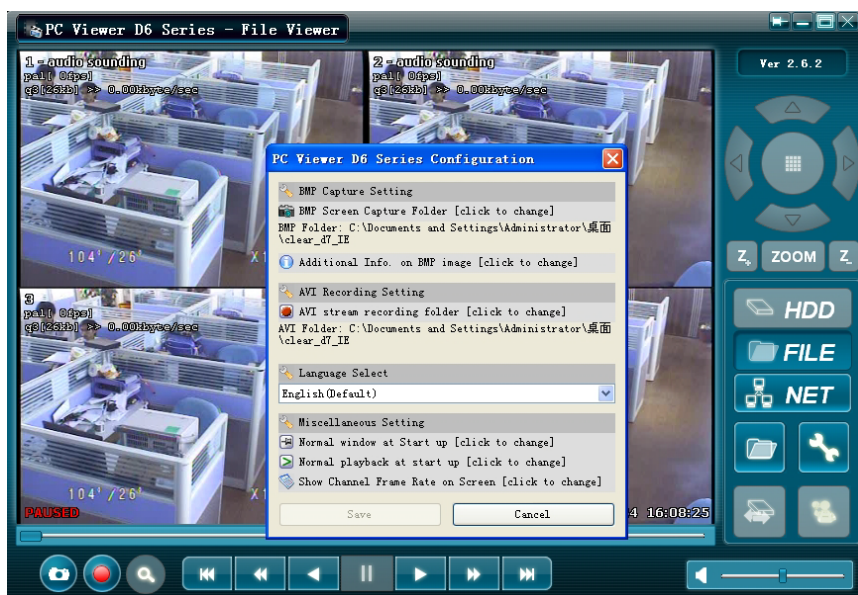
Press the " ▶ " button to play video.

8.3.2 FILE Play Mode

(Only when you have saved files to your PC.)

Press the " 📁 FILE " button to open a folder, select the file which you want to

Play and double click to play video.

Chapter 9 : Specification

DVR Specification

Items	Descriptions	
Video Standard	NTSC/PAL	
Video Input / Output	4-Channels /1Channels	
Pre-view	Resolution	NTSC：720X480@30fps (Each CH) PAL：720X576@25fps (Each CH)
	Features	Full-D1, 1-Channel/4-Channel 1-channel Playback display
Recording	Resolution	NTSC：720X240@60fps (Total) PAL：720X288@50fps (Total)
	Features	Variable Frame Rate
	Quality	4 Level (Highest, High, Normal, Low)
Video	MPEG4 Compression	
Motion Detection	Settable Detection Area and Sensitivity	
Microprocessor	32-bit RISC Processor	
HDD Port	Supports SATA HDD up to 500GB	
USB Port	USB2.0	
IR Remote Control	Supports IR Remote Control	

Chapter 10 : Appendix

10.1 System Connection Layout
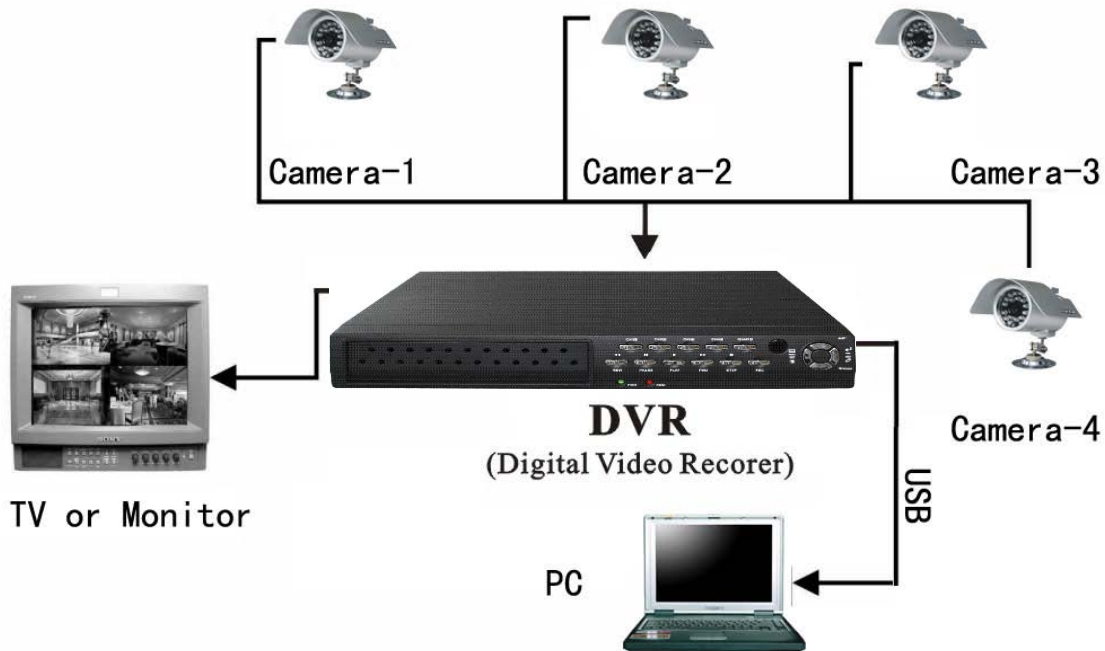
10.2 Accessories

Q-See Product Warranty

Thank you for choosing our products.

All of our products users have a conditional free warranty repair service for hardware within 12 months starting from purchase date, and a free exchange service within one month (valid for manufacturing defects). Permanent upgrading service is provided for the software.

Liability Exclusions:

Any product malfunction, abnormalities in operation or damage caused by following reasons are not within the free service scope of our warranty. Please select payable service.

(1) Equipment damage caused by improper operation

(2) Improper environment and conditions in/on which the equipment operates, e.g., improper power, environment temperature, humidity and lightening strike etc. that cause equipment damage.

(3) Damage caused by acts of nature: earthquake and fire etc.

(4) Equipment damage caused by the maintenance of personnel not authorized by our company.

(5) Products sold over 12 months ago.

In order to provide various services to you, please complete registration procedure after you purchase the product. Cut off or copy User's Information Card and fax or mail it to us after the card is filled in. You can also register the product by going to the www.q-see.com website and clicking on the Register link.

If you have questions:

Contact Us:

Mailing Address:	**Customer Service:**
DPS Inc.	**Phone: 877-998-3440 x 538**
8015 E. Crystal Dr	**Email: cs@dpsi-usa.com**
Anaheim, CA 92807	
Website:	**Tech Support:**
http://www.q-see.com	**Phone: 877-998-3440 x 539**
Fax:	**Email: ts@dpsi-usa.com**
714-998-3509	

Customer Information Card

User's Name	Mr./Mrs.
Company Name	
Postal Address	
Postal code	
Phone Number	
E-mail	
Model Number of Product	
Serial Number of Product	
Purchase Date	
Distributor	

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