

Specification: 148*210MM (width*height)

User's Manual

VR-3800D Series Digital Video Recorder



Welcome

Thank you for purchasing Relong products. Please feel free to contact us if you have any questions or concerns.

This manual applies to RL-VR-3800D digital video recorder.

The manual may not agree with the real functions or operation of the product and there may be some inaccuracies and misprints. Relong reserves the right to change specifications or functions described in this manual without notice and without obligation.



Safety Precaution

Do abide by the following precautions when using this product:

1. Containers with liquid should not be put on DVR.
2. DVR should be put at well-ventilated places.
3. DVR should work under the allowable limit of temperature and humidity.
4. Short-circuit will be caused when circuit board inside the DVR is damp, so please dusting the circuit board, connector, case and case fan with banister brush.

Product Features

- Dual streams supported. Main stream (D1/CIF),second stream(MAX 1CIF).
- Parameters of resolution, frame rate(25/PAL,30/NTSC),code rate and image quality are independently adjustable.
- Supports, VGA (max1280*1024), CVBS video output.
- 4/8/16 channel BNC video input and 4/8/16 channel RCA audio input.
- 1/4/9/16 screen preview.
- Supports manual preview and auto cruise preview. Auto preview cycle adjustable.
- Supports electronic amplification preview.
- Smart video detection: video loss, camera blank, motion detection, video occlusion detection.
- Supports privacy masking.
- Supports multiple PTZ protocols, PTZ preset, patrol and pattern.
- Supports one SATA HDD, hard disks(>2TB)
- Video recording and playback.
- Both cycle recording and non- cycle recording are supported.
- Recording mode: manual recording, scheduled recording, alarm recording, motion detection recording
- 8 recording periods can be set each day and recording mode can be set independently for each period.
- Supports prerecording and post recording of motion detection and alarm.
- Supports fast play, slow play, pause, playback, fast forward, rewind and mouse operation of pointing and dragging. in playback.
- Multi- channel simultaneous playback.
- Backup by USB HDD,U disk.
- Multiple backups according to file and time.
- 4 channel alarm input/one channel alarm output available.

- Alarm: video loss, hard disk failure, video tampering, motion detection.
- Alarm output: Audible beep, sending email.
- Supports operations through front panel buttons, mouse and remote.
- Administrator can create several users and set up permissions .Permissions can be detailed down to each channel.
- Complete recording and search of event log.
- Supports manual alarm triggering and alarm-off.
- Configuration information import and export.
- Supports reset after system crashes.
- 10M/100M adaptive network interface.
- Network protocols: TCP/IP, PPPoE, DHCP, DNS, DDNS, NTF etc.
- Remote search, playback, download and HTTP.
- Remote obtaining, setting, importing and exporting of device parameters.
- Remote obtaining of running status, system log and alarm status.
- Remote system maintenance operation: HD Format, upgrade, reboot, shut down.
- Remote manual alarm triggering and alarm-off.
- Remote PTZ control.
- Remote picture snapping.

Main Parameters.

Item	3804D	3808D	3816D
Video compression	H264	H264	H264
Video in	4channelBNC	8channelBNC	16channelBNC
Video out	1 channel BNC	1 channel BNC	1 channel BNC
Audio in	4chanelRCA	8channelRCA	16channelRCA
Audio out	1channelRCA	1channelRCA	1channelRCA
Alarm	4channel in/1channel out	4channel in /1channel out	4channel in/1channle out
Playback	NTSC: D1@48fps PAL: D1@40fps	NTSC: CIF@240fps PAL: CIF@200fps	NTSC: CIF@480fps PAL: CIF@400fps
RS485	One RS485	One RS485	One RS485
Power supply	DC 12V/3A	DC 12V/3A	DC 12V/3A

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1. Instructions

1.1 Panel instruction:



No.	Item	Description
1	Infrared receiver	Controlling the remote control
2	POWER	Red constant light after being energized.
	REC	Flashes green when recording.
	ALAM	Red constant light when a switch value alarm is detected.
3	Direction Buttons	(1)Menu mode: move the cursor for menu setup (2)Change preview channel (3)PTZ control
	Enter	(1)Menu mode: confirm menu setup (2)Selecting ON/OFF in checkbox. Selecting list box, calendar, edit box.
4	Menu/Exit	Enter main menu or return to previous menu.
5	Alphanumeric Buttons	(1) Switching to the corresponding channel in Preview or PTZ Control mode. (2) Inputting numbers and characters in Edit mode. (3) 6,7,8,9,0 are used for playing video under playback mode.
6	USB	Connecting USB devices.

7	Power button	Powers DVR on/off.
8	Power Input interface	DC 12V/3A
9	RS485	PTZ interface, supporting multiple PTZ protocols.
10	USB	Upgrading DVR via USB devices.
11	VGA	VGA display, max resolution 1280*1024.
12	Audio output interface	Audio output.
13	Audio Input interface	Connecting to monitors, a maximum of 4 channel audio input.
14	BNC video output	Connecting to monitors.
15	Video input section	1,2,3,4 channel from the top down.
16	Control section	Alarm in(1,2,3,4),Alarm out(ON, C), Earthing (NG),power 12V from left to right.
17	Network interface	Supports 10M/100M adaptive network interface.
18	power switch	12V control power.

1.2.Mouse operating instruction.

Name	Operation	Description
Left mouse button	click	Select ,confirm
	Double click	Switching between single screen and multiscreen in playback and preview mode.
	Hold down the left button and drag the mouse	1. Set the area for privacy masking, motion detection and video occlusion alarm. 2. Drag to set the electronic amplification area. 3. Drag scroll bars.
Right button	click	Pop-up menu
Mouse wheel	Scroll up	Scroll up select boxes, options, scroll bars and pages.
	Scroll down	Scroll down select boxes, options, scroll bars and pages.

1.3. Input method.



Icon	Description	Icon	Description
	Lowercase		Uppercase
	Chinese input method		Backspace
	Space		Enter
	Exit		

1.4. Using Remote Control.

Remote is the minor input device of system browsing interface.

Function keys instruction:

- 1.**STARTUP/ STANDBY:** Three-second long press to enter start up/standby
- 2.**LOGIN/LOCK:** Obtain operation authority while entering the system. If you have enabled “SAFETY” in setup menu, you can enter user password login interface.
- 3.**Number key/channel button:** Input 0~9 in setupinterface/Under preview mode, press channel button to select the corresponding channel picture to be displayed.
- 4.**Multi-Screen:** Change the view mode to four channel picture display or multi-channel picture display.
- 5.**MENU:** Press [MENU] to display main menu under preview mode.
- 6.**PTZ:** Call PTZ control interface.
- 7.**EXIT:** Close the menu window or return to previous menu.
8. Browsing or confirming:



- ▲: Move up the cursor in menu screen.
 - ▶: Move right the cursor in menu screen.
 - ◀: Move left the cursor in menu screen.
 - ▼: Move down the cursor in menu screen.
 - OK: Selecting and setting up system parameters, confirmation of operations such as PLAY.
9. +/-: Adjustment of parameters, increasing or decreasing the value of system parameters.
10. **RECORD**: Start manual recording.
11. **STOP**: Stop manual recording.
12. **EXTRA**: Reserved button.
13. **PLAY**:
- ◀◀ **FAST REWIND**: Rewind the images quickly by 2×, 4×, 8×; Press [PLAY] to return to normal speed.
 - ▶ **PLAY**: Play video at normal speed.
 - ▶▶ **FAST FORWARD**: Fast forward the video; Press [PLAY] to return to normal speed.
 - ▢▢ **SLOW MOTION**: Slow down the play speed by 1/2×, 1/4×, 1/8×; Press [PLAY] to return to normal speed.
 - ▢▶ **PAUSE/FRAME BY FRAME**: Press it for the first time to pause the picture, keep pressing would play the video frame by frame. Press [PLAY] to return to normal speed.
14. **AUDIO**: Audio button.
15. **MUTE**: Stop audio output.

The right way to use remote: Press “LOGIN/LOCK” → “Input device ID” → “OK”

NOTE: Please make sure that the batteries are correctly installed and aim the IR transmitter of the remote at the IR receiver of the DVR.

If the remote does not function, check the following:

1. Check the polarity of batteries.
2. Check the remaining charge in the batteries.
3. Check whether the remote sensor has been blocked.
4. Check whether the ID of input device is right.

1.5. Starting and Shutting Down Your DVR.

STARTING UP

If the power indicator on the front panel does not turn on, please plug in the power and turn the power switch on.

If the power indicator is on, please press the POWER button.

NOTE: Please make sure the input voltage be commensurate with DVR and maintain a good grounding.

SHUTDOWN

Standard shutdown---Menu operation

Steps: →1.Enter the Shutdown menu, shown in Figure 1 by clicking on Menu > Shutdown.



2. Select the Shutdown button.



3. Click the OK button.

4. Press the POWER switch on the rear panel to safely shutting down the system.

Manual shutdown — Through front panel button or remote.

Press and hold the POWER button for 3 seconds if the system has enabled the Password, it will pop up a dialog box. Please input user name and password (The default pass word is 12345) for authentication



If the system has not enabled Password, a shutdown confirmation prompt will pop up, click OK

Note: When the system prompt that the system is under shutting down, please do not press the power button, otherwise the system can not shutdown normally.

Illegal shutdown—Through power switch on the rear panel.

Please try to avoid shutdown through the rear panel power switch (especially it is during recording)

Illegal shutdown—Unplug the power cord directly.

Please try to avoid unplugging the power cord directly (especially it is during recording)






NOTE: Under some circumstances, the power supply does not work orderly, which may result in the disorders of DVR, and seriously it may damage the DVR. Stabilized power supply is recommended under such circumstances.

UnRegistered

2. Preview

2.1. Preview screen.






In preview screen, the video and alarm status of each channel can be distinguished by the identifier on the lower left of each channel. When switching value alarm or anomalies alarm occurs, a notification icon would appear on the lower right of the screen, and click on the icon for details.

Icon	Description
	Motion detection alarm.
	Video occlusion alarm indicates video tampering.
	Recording(manual, scheduled, motion detection recording).
	Indicates the current channel is in audio output.
	Indicate there is an alarm or exception.

2.2. Preview operations.

Functions	Front panel operation	Mouse operation
Full screen preview	Number key	Select “single camera” in right click menu.
Multi-screen preview	MODE	Select “multi camera” in right click menu.
Manual switch	Previous screen: Left direction button. Next screen: Light direction key	Select “next screen” in right click menu.
Start tour	—	Select “start tour” in right click menu.
Digital zoom	—	Select “digital zoom” in right click menu.
Main/Auxiliary port	main/auxiliary	Select “main” in right click menu.

Electronic amplification

-  : To enlarge the picture 2 times for each click.8 times at most.
-  : To shrink the enlarged picture till normal one.
-  : To enlarge the selected area to full screen.
-  : To turn the picture to normal size.
-  : Exit.

Right click menu instructions.

Under main preview mode, preview screen switching, preview mode adjustment ,play back, PTZ control and electronic digital zoom, etc, can be achieved by means of right click menu

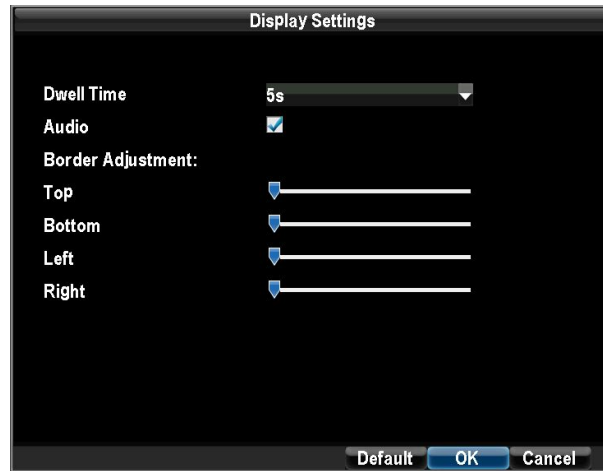


Name	Descriptions
Single camera	Switch to a full screen display of the selected camera. Camera can be selected from a drop down list.
Multi camera	Switch between different displays layout options. Options can be selected from a drop down list.
Next screen	Switch to next screen.
Play back	Enter play back mode.
PTZ	Enter PTZ control mode.
Digital zoom	Enter digital zoom interface.
Main menu	Enter main menu.
Start tour	Enable sequencing in Live Preview mode

Note:1. Before using "START TOUR", please set up "dwell time"(the time between switching of channels)in Live preview configuration.

2.3. Preview parameters setup.

Live Preview displays can be customized to your own needs. These settings can be accessed by entering the **Display Settings** menu.



To access the Display Settings menu:

1. Click the **Menu** button.
2. Click the **Configuration** icon.
3. Click the **Display Settings** icon.

The settings available in this menu include:

- **Dwell Time:** The time in seconds to *dwell* between switching of channels when **Start Tour** is selected in Live Preview.
- **Audio:** Enables/disable audio output for the selected video output.
- **Border Adjustment:** To adjust the border of video output.

NOTE: If the audio preview has not been enabled, the live preview would be soundless.

2.4. System locking.

- Steps:
1. Enter shutdown interface by clicking on Menu > Shutdown.
 2. Select the LOCK button.



NOTE: The system would return to preview mode after being Locked.

To reenter playback, PTZ control and main menu, user name/password authentication is required.

3. Recording setup

3.1. Coding parameters setup.

Before setting your DVR up for recording, certain settings should be configured first

Before configuring the encoding parameters, please make sure that this unit has been installed with HDD and completed initialization.

Path: Main menu→Hard disk management

- If the system has not been installed with HDD, please install the HDD and start initialization..

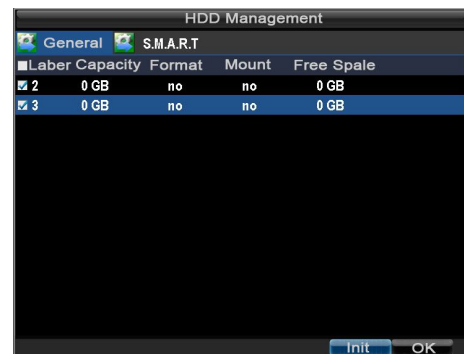
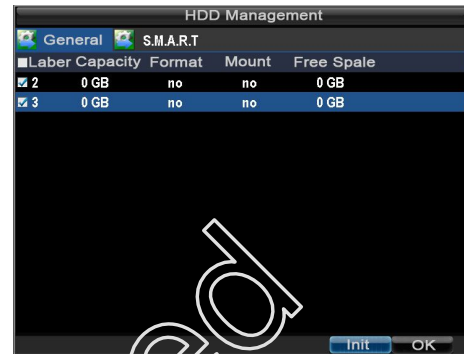
- If the system has not been initialized ,please initialize it.

Steps:1.Select the disk and click “initialization”.

2.Click OK.

NOTE: Formatting a disk would lose all the its record.

- After initialization, the disk space usage would be shown as in the graphic.



Configuring record settings

Path: Main menu→ Configuration→ Record setting



1. Configure settings for:

- **Encoding Parameters:** Select main stream (mainly for recording) or sub stream (mainly for uploading).
- **Record Audio:** Select to record audio of the camera.
- **Resolution:** The resolution is fixed as 4CIF for main stream, CIF for sub stream.
- **BitRate Type:** Select either Variable or Invariable bit rate.
- **Video Quality:** Select the quality to record cameras when the Bitrates type is selected as Variable. Otherwise, it can't be selected.
- **Frame Rate:** Select recordings frame rate.
- **Max Bit Rate:** Select or define custom maximum bit rate for recordings.

2. Click ADVANCED. This will bring up another menu with more advanced recording options.



Set additional record settings:

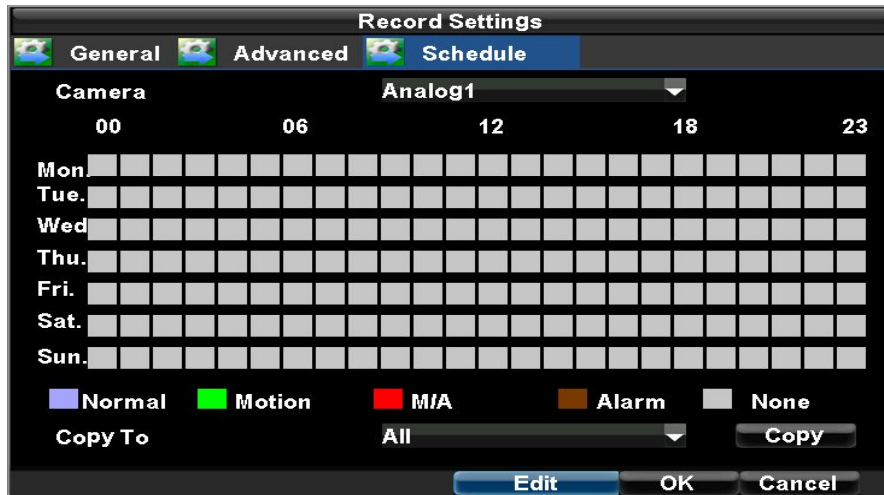
- **Overwrite:** Sets to overwrite the HDD to continue recording when it is full.
- **Pre-record:** Sets the time in seconds to pre-record before the actual recording begins.
- **Post-record:** Sets the time in seconds to post-record after the actual recording ended.

3.2 Scheduling a Recording

Scheduling a recording allows you to setup the DVR to only record when you want it to.

To setup a recording schedule:

1. Enter the Record Settings menu (Menu → Configuration → Record Settings).
2. Select the Schedule tab to open the Schedule menu.



3. Select Camera to edit schedule for.
4. Click the **Edit** button.
5. Click and check **Enable Schedule**.



6. Select the day you would like to setup the schedule for or select **All Week** to record the entire week.
7. Select to record the entire day by clicking **All Day** or at different time periods. Up to 8 time periods can be scheduled. It is important to note that time periods cannot be overlapped.
8. Select recording Type. Recording type can be based on time and triggered by schedule, motion detection, motion or alarm and alarm. Motion detected and alarm triggered recordings are further explained in Configuring Alarms.
9. Click the OK button to finish configuration.
10. Repeat steps 3-9 for other cameras or copy settings from one schedule to the next under the Copy To section.
11. Click OK to finish and save the schedule settings.
12. If all the cameras recording settings are the same, please select All under Copy To section as shown:



Note: Event encoding parameters will take effect when motion detection or alarm happens.

Normal encoding parameters will take effect when there are no events happening.

3.3 Setting up motion detection.

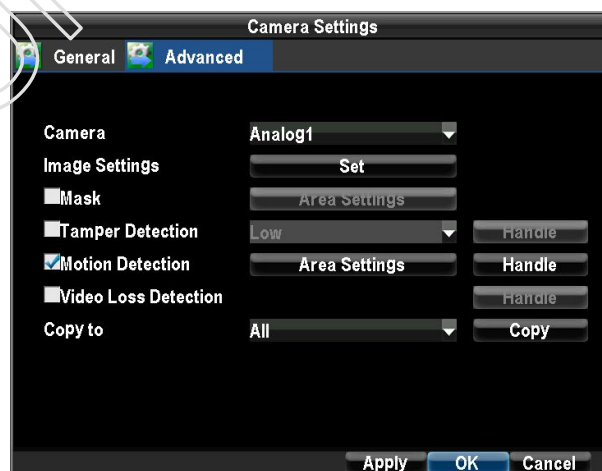
Set up properly, using motion detected recording will increase the number of days your DVR is able to record. It will only record relevant events rather than recording everything, making searching for an event easier.

To set up motion detection:

1. Enter Camera Settings:

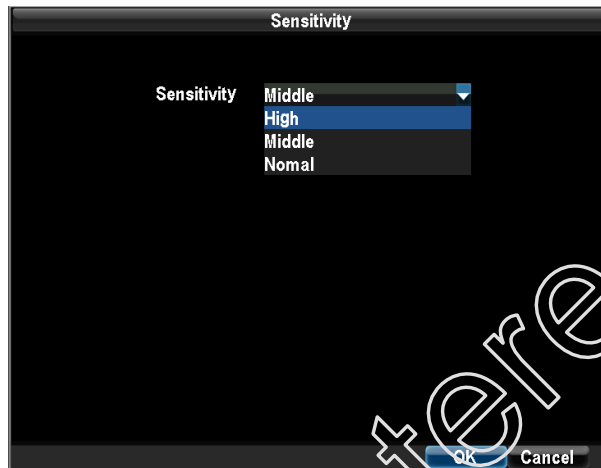
Enter the Camera Settings interface by navigating to Menu → Configuration → Camera Settings. Select channel to configure motion detection on.

2. Select the Advanced tab to open up the Advanced Camera Settings menu.



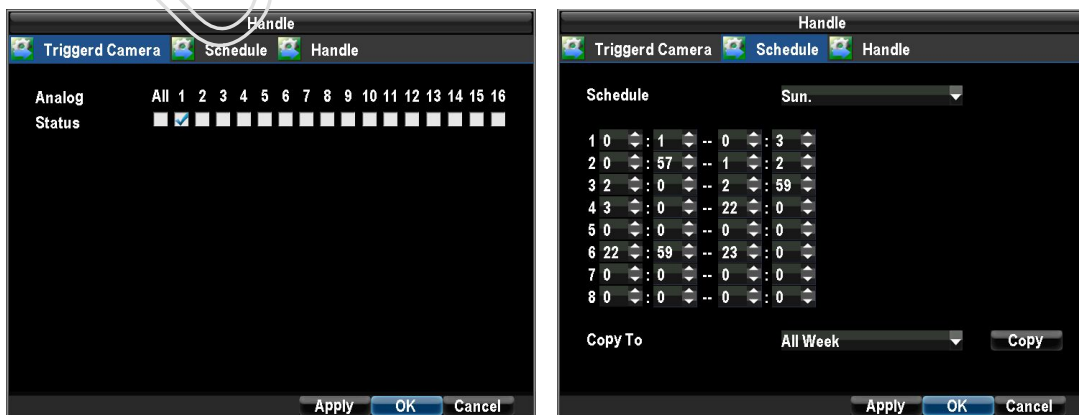
3. Check the checkbox next to Video Motion Detection, and enable Motion Detection as .

4. Click the Area Settings button to enter the Motion Detection area and Sensitivity configuration interface.
5. The Motion Detection area, allows you to mask out areas where you would like motion to be detected in. The maximum area is the whole screen. You can left click mouse, hold and drag it to mask the Motion Detection area.
6. Right click mouse to set the Motion Detection Sensitivity.



7. Right click mouse to select Save to return to the Camera Settings menu.

8. Click the Handle button to open the Handle menu. Select the Triggered Camera tab.



9. Select cameras to trigger for recording when motion is detected by checking the checkboxes under the desired cameras.

10. Select Schedule tab to set arm time, 8 periods can be set.
11. Click OK to complete motion settings for the selected camera.

*You may now add a schedule to start recording when motion is detected (See **Scheduling a Recording**).*

3.4 Setting up alarm recording.

1. To setup alarm recording:

Enter into the Alarm Settings menu by navigating to Menu → Configuration → Alarm Settings.

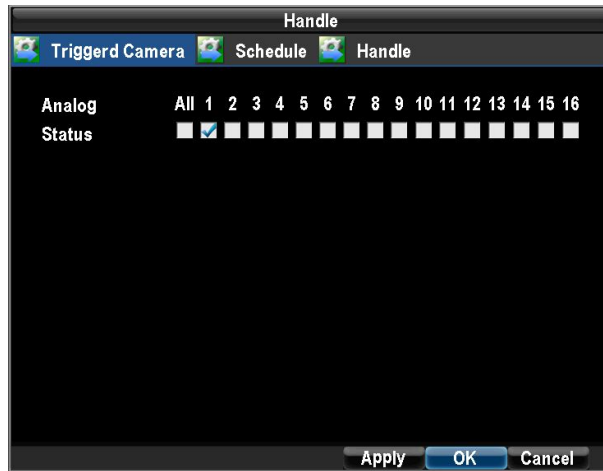
Select the **Alarm Input** and click the Set button. This will open the Alarm Input Setting menu.



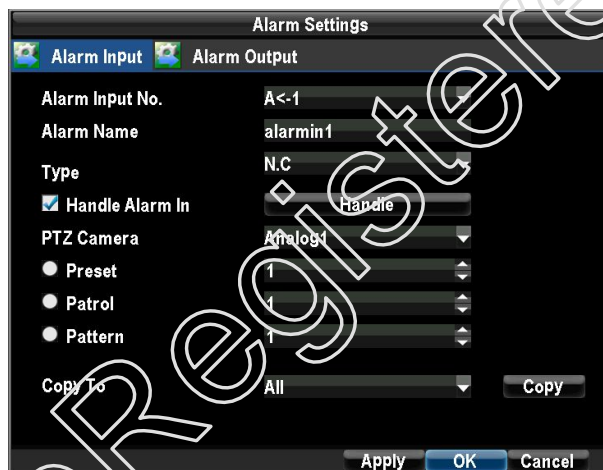
2. Set the alarm input type. The options available are Normally Opened (N.O.) and Normally Closed (N.C.). Select the checkbox next to Handle Alarm In as and click the Handle button to enter the Alarm Input Handle menu.

3. Select the Triggered Camera tab.

Select cameras to trigger for recording when alarm occurs by checking the checkboxes under the desired cameras. Click the OK button to complete setup. If you want to configure other alarm recording, please repeat step 2 and 3.



4. Copy the alarm input setup to other alarm input. If all the cameras alarm input configurations are the same, please select All under Copy To section as shown.



5. Navigate to Menu → Configuration → Record Settings →. You will be taken to the Record Settings menu. Select the Schedule tab to open the Schedule menu.

Click the Edit button



6. Click and check Enable Schedule.

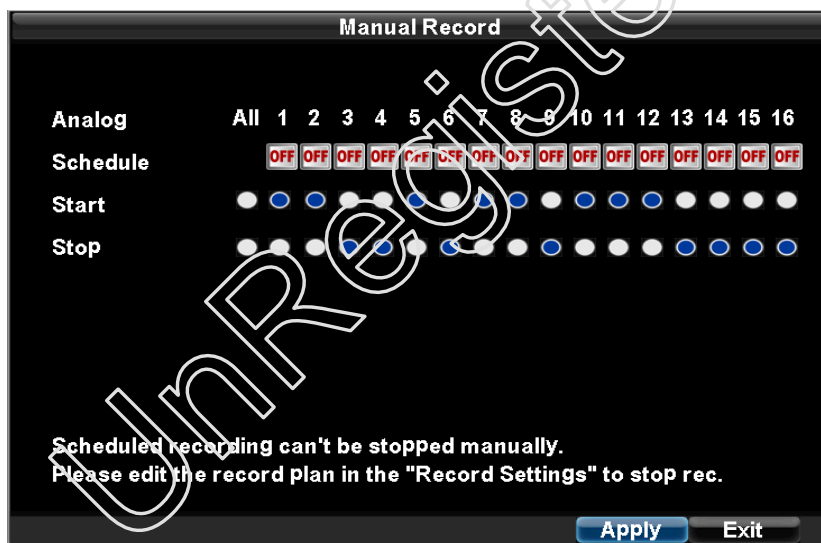
Select the day you would like to setup the schedule for or select All Week to record the entire week. Select to record the entire day by clicking All Day or at different time periods. Select recording type as ALARM. Up to 8 time periods can be scheduled. It is important to note that time periods cannot be overlapped. Click the OK button to finish configuration.

Repeat steps 5-6 for other cameras. If all the cameras settings are the same, proceed to 7.

7. If all the cameras recording settings are the same, please select ALL under COPY TO section. To copy this configuration to other camera, select COPY and click OK to save the settings.

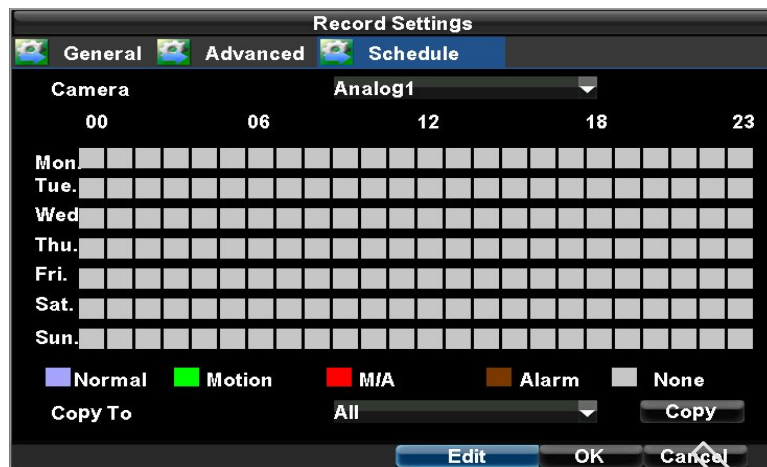
3.5 Manual Recording

A manual recording can be started at any time. Enter manual record interface by pressing REC on the front panel or through main menu and start manual recording by selecting Start or Stop for the cameras desired.



Note: Only when the scheduled recordings are off can user manually start or stop recording.

3.6 Other recording mode setup.



Other recording mode refers to M/A recording, which would trigger recording of certain channel once there is a motion detection alarm or sensor alarm.

Steps:

1. Enter the Record Settings menu (Menu > Configuration > Record Settings).

Select the Schedule tab to open the Schedule menu. Click the Edit button.

2. Configure M/A recording.

Click and check Enable Schedule. Select the day you would like to set M/A recording for, and copy that schedule to the whole week. Select recording type as M/A recording, Select to record the entire day by clicking All Day or at different time periods. Up to 8 time periods can be scheduled. It is important to note that time periods cannot be overlapped.











Click the OK button to finish configuration. Repeat steps 1-2 for other cameras or copy settings from one schedule to the next under the Copy To section.

3. If all the cameras recording settings are the same, please select All under Copy To section as shown. Click OK to finish and save the settings.

4. Playback

There are various controls on the Playback interface that makes viewing recordings more efficient.



- : **Audio on/off:** Select to open or close the audio;
- : **Fast backwards:** Select to rewind recording files at the speed of x2, x4, x8;
- : **Play;** Select to return to normal speed to playback files;
- : **Pause / Single Frame:** Select to pause or play in single frame;
- : **Fast Forwards:** Select to playback the recording files forward at the speed of x2, x4, x8;
- : **Slow Forwards:** Select to playback the recording files forward at the speed of x1/2, 1/4, 1/8;
- : **Hide;** Select to hide the playback control panel;
- : **Exit;** Select to exit playback;
- : **Playback progress:** To drag the playback progress to a desired time;
- : **Recording Type:** indicate the recording types during the period.

Note: Blue Record Time Line designates schedule/manual recording while red one shows event recording.

4.1 Playing back.

To playback files from a video search:

1. Enter into the Video Search menu by clicking Menu → Video Search.
2. Select cameras to search, video type (All, Manual, Schedule, Motion, Alarm, Motion or Alarm) and the start/end time.
3. Click the Play button to start playback.



4.2 Synchronous playback

Playback according to recording time can play video files of required time period, supporting multi channel Synchronous playback and channel switching.



Steps:

1. Enter Video Search menu by clicking Menu → Video Search.

Set specified search criteria and click the Search button to bring up the list of search results.

2. Select the channel you would like to playback.

After search results are presented, select the file you would like to playback.

Search Results			
CH.	HDD	Start Time	Stop Time
A1	0	2011-04-21 10:38:13	2011-04-21 11:15:56
A1	0	2011-04-21 11:19:34	2011-04-21 11:20:14
A1	0	2011-04-21 11:20:12	2011-04-21 11:21:12
A1	0	2011-04-21 11:21:23	2011-04-21 11:21:51
A1	0	2011-04-21 11:21:57	2011-04-21 11:22:57
A1	0	2011-04-21 11:22:57	2011-04-21 11:23:43
A1	0	2011-04-21 11:23:41	2011-04-21 11:26:38
A1	0	2011-04-21 11:26:29	2011-04-21 11:27:11
A1	0	2011-04-21 11:27:07	2011-04-21 11:32:25
A1	0	2011-04-21 11:32:46	2011-04-21 11:33:20
A1	0	2011-04-21 11:33:12	2011-04-21 11:33:30
A1	0	2011-04-21 11:33:38	2011-04-21 11:33:59
A1	0	2011-04-21 11:34:01	2011-04-21 11:35:26
A1	0	2011-04-21 11:35:17	2011-04-21 11:37:05

Play Cancel

3. Click PLAY to enter playback interface.

4. In synchronous play back interface, playback progress can be controlled through playback toolbar.

Synchronous Playback Cameras																	
Please select cameras for synchronous playback :																	
Analog	All	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Status	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OK Cancel

5. BACKUP

Recorded files can be backed up to various devices, such as USB flash drives, or USB HDD. To export recorded files:

1. Enter the record backup menu by clicking Menu →Record Backup.



Select desired parameters to search for files to backup and select the channel you want to back up. Click BACKUP to enter Search Results menu.

CH.	HDD	Start Time	Stop Time	Size	
<input checked="" type="checkbox"/>	A1	3	11-20-2009 12:18:40	12:19:36	352KB
<input checked="" type="checkbox"/>	A1	3	11-20-2009 13:56:01	13:56:05	729KB
<input checked="" type="checkbox"/>	A1	3	11-20-2009 13:56:13	13:56:17	393KB
<input checked="" type="checkbox"/>	A1	3	11-20-2009 13:56:36	14:13:56	41,671KB
<input checked="" type="checkbox"/>	A1	3	11-20-2009 14:14:03	14:48:04	108,406KB
<input checked="" type="checkbox"/>	A2	3	11-20-2009 13:49:58	13:56:02	1,926KB
<input checked="" type="checkbox"/>	A2	3	11-20-2009 13:56:16	13:56:20	80KB
<input checked="" type="checkbox"/>	A2	3	11-20-2009 13:56:27	14:13:59	5,425KB
<input checked="" type="checkbox"/>	A2	3	11-20-2009 14:14:03	14:48:03	34,077KB
<input checked="" type="checkbox"/>	A3	3	11-20-2009 13:56:05	13:56:09	84KB
<input checked="" type="checkbox"/>	A3	3	11-20-2009 13:56:17	13:56:21	65KB
<input checked="" type="checkbox"/>	A3	3	11-20-2009 13:56:37	14:13:57	5,372KB
<input checked="" type="checkbox"/>	A3	3	11-20-2009 14:14:04	14:48:04	10,477KB

Total Size: 221MB

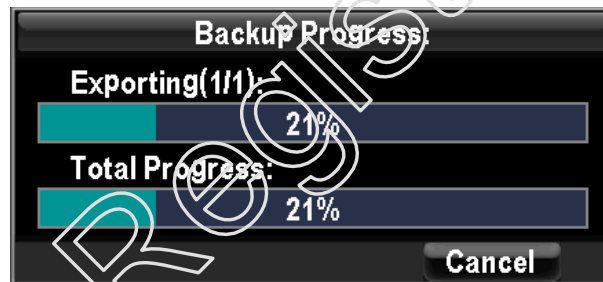
2. Select the files to export. You may also click the Play button to verify that these files are indeed the ones you would like to export. The size of the currently selected files is displayed in the lower-left corner of the window. Select the Next button to enter the Backup menu.
3. Select device to export to from drop-down list. If backup device is not recognized:
 - Click the Refresh button.

- Reconnect device.
- Check for compatibility.



If the USB flash drives or USB HDD is not compatible, you can format the device through DVR.

Click Start to begin backup process.



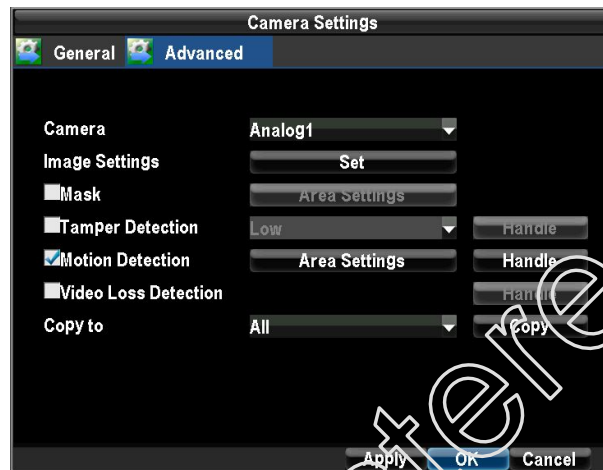
6. ALARM SETTINGS

6.1 Motion Detection Alarm.

1. Enter the Camera Settings interface by navigating to Menu → Configuration → Camera Settings.

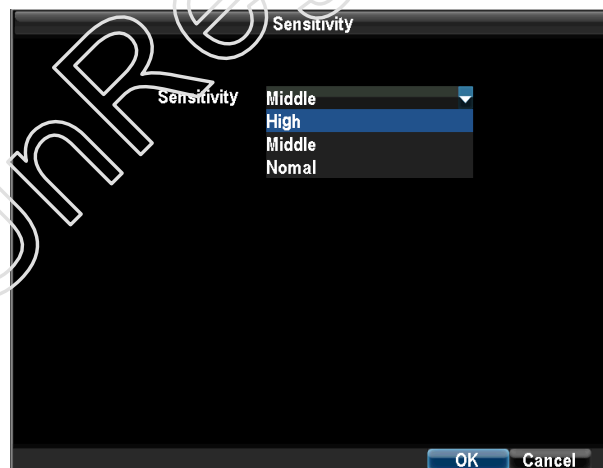
Select channel to configure motion detection on.

Select the Advanced tab to open up the Advanced Camera Settings menu.

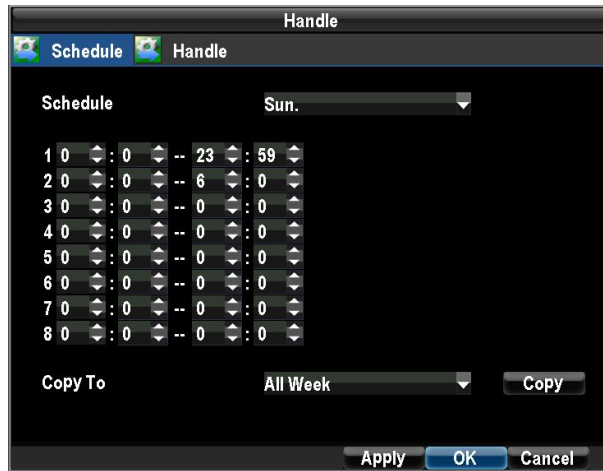


2. Check the checkbox next to Video Motion Detection, and enable Motion Detection as .

Click the Area Settings button to enter the Motion Detection area and Sensitivity configuration interface.



3. Click the Handle button to open the Handle menu. Select the Schedule tab to set arm time.



Arm time can be set for a specific day or the whole week, 8 periods can be set for each day. It is important to note that time periods cannot be overlapped.

Click APPLY to finish configuration. Repeat steps 2-3 for other camera. If other camera settings are the same, proceed to step 4.

4. If other cameras settings are the same, copy this settings to other camera.



6.2. Setting up Sensor Alarms.

Alarming circuit description.

If connected to N.C.(normal close) alarm, set the DVR main controller board to N.C. alarm mode. Then the I/O alarm input would trigger alarm under low level voltage.



If connected to N.O.(normal open) alarm, set the DVR main controller board to N.O. alarm mode. Then the I/O alarm input would trigger alarm under high level voltage.



Setting method:

1. Enter into the Alarm Settings menu by navigating to Menu→ Configuration→ Alarm Settings.

Select the **Alarm Input** and click the Set button. This will open the Alarm Input Setting menu.



2. Set the alarm input type. The options available are Normally Opened (N.O.) and Normally Closed (N.C.).

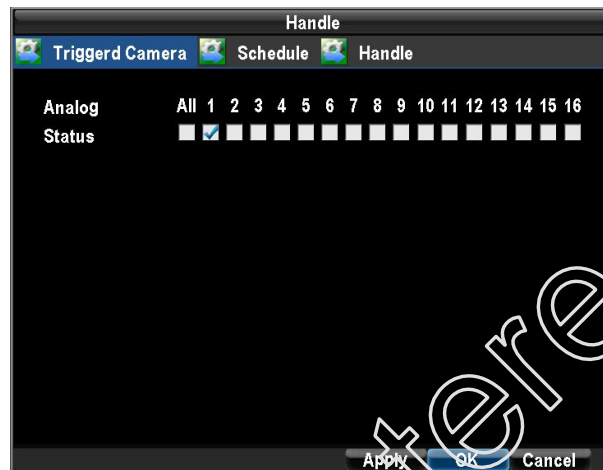
Select the checkbox next to Handle Alarm In as and click the Handle button to enter the Alarm Input Handle menu. If you want to link alarm to PTZ, please select channel and linkage method.



Note: Before setting PTZ linkage, please check whether your decoder or camera supports the function. A alarm input can invoke the Preset position, Cruise and Track of several

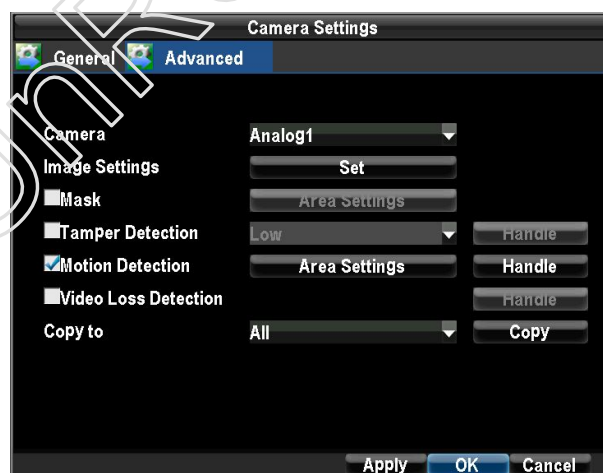
cameras, but can only call one of the functions at a time.

3. Click the Handle button to open the Handle menu. Select the Schedule tab to set the schedule of when you want sensor alarm to be enabled. Schedule can be set for all week or any day of the week with up to 8 time periods per day. It is important to note that time periods cannot be overlapped.



Click APPLY to finish configuration. Repeat steps 2-3 for other camera. If other camera settings are the same, proceed to step 4.

4. If other cameras settings are the same, copy this settings to other camera.



6.3 Detecting Video Loss

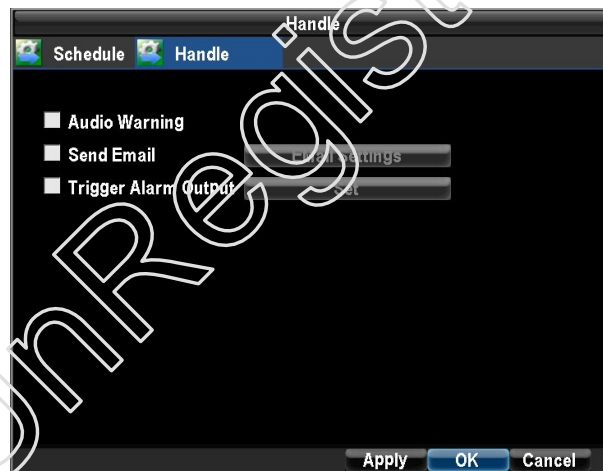
To setup video loss detection:

1. Enter Camera Management/Settings menu by clicking Menu → Configuration → Camera Settings. Select the **Advanced** tab.

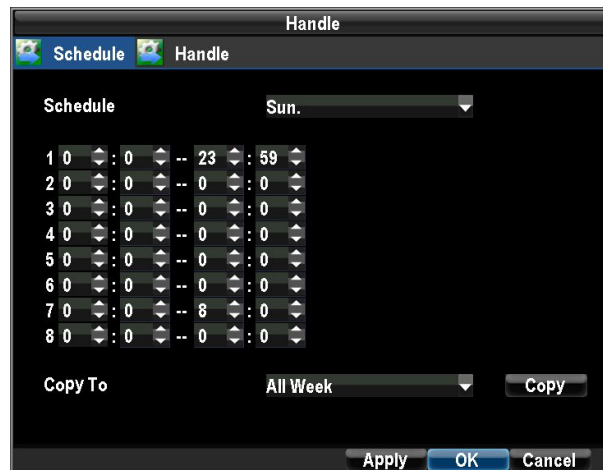


2. Check the **Video Loss Detection** checkbox to enable feature.

Click the Handle button to enter the Handle menu. Select the Handle tab to configure exceptions handling.



3. Select the Schedule tab. Set the schedule of when you want video loss detection to be enabled. Schedule can be set for all week or any day of the week with up to 8 time periods per day. It is important to note that time periods cannot be overlapped.



Click Apply to finish configuration. Repeat steps 2-3 for other camera. If other camera settings are the same, proceed to step 4.

4. Repeat above for other channels. If other channels settings are the same, copy this settings to other channels in Advanced tab.

6.4 Detecting Video Tampering

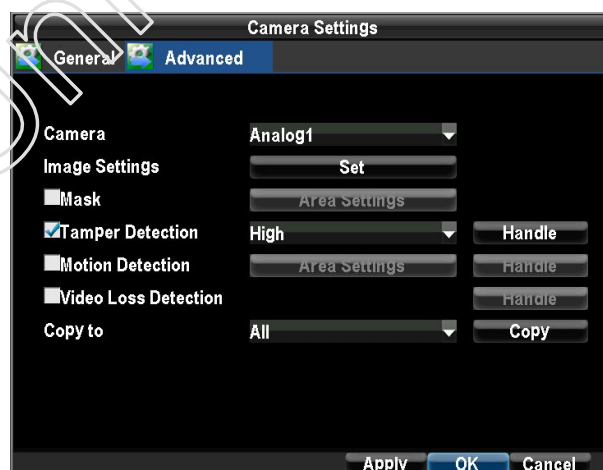
To setup video tempering detection:

1. Enter Camera Settings menu by clicking Menu → Configuration → Camera Settings.

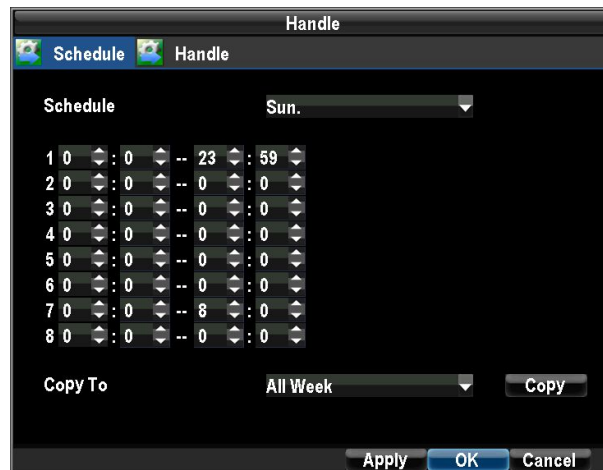
Select the **Advanced** tab and select camera to configure tamper detection.

Select the **Tamper Detection** checkbox. Select the sensitivity of the camera tamper detection, HIGH, MEDIUM, and LOW.

Note: Only if the camera is totally blocked, alarm would be triggered.



2. Set the schedule of when you want video tampering detection to be enabled. Schedule can be set for all week or any day of the week with up to 8 time periods per day. It is important to note that time periods cannot be overlapped.



3. Click **Apply** to finish configuration. Repeat steps 2 for other camera. If other channels settings are the same, copy this settings to other channels in Advanced tab.

6.5 Setting up Exception

Setting exceptions allow the DVR to alert you when irregular events occur.

The triggering options that you may select include: Audio Warning, Trigger Alarm Output, Send Email.

Audio Warning

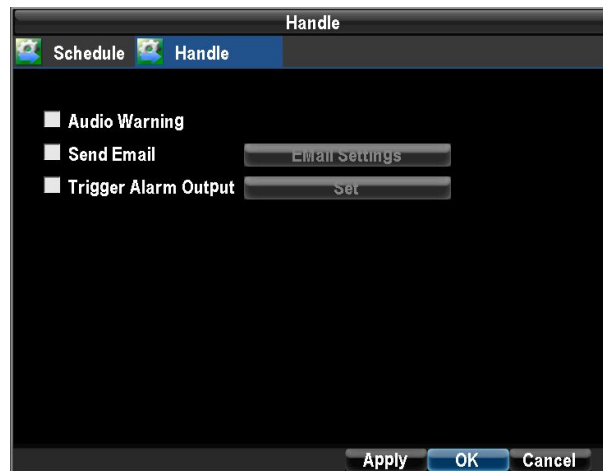
Trigger an audible *beep* when exception is detected.

To set up audio warning (Setting video tampering alarm as an example)

1. Select Advanced tab in camera settings interface to configure video tampering alarm for the selected channel. Select the **Tamper Detection** checkbox(Menu → Configuration → Camera Settings).



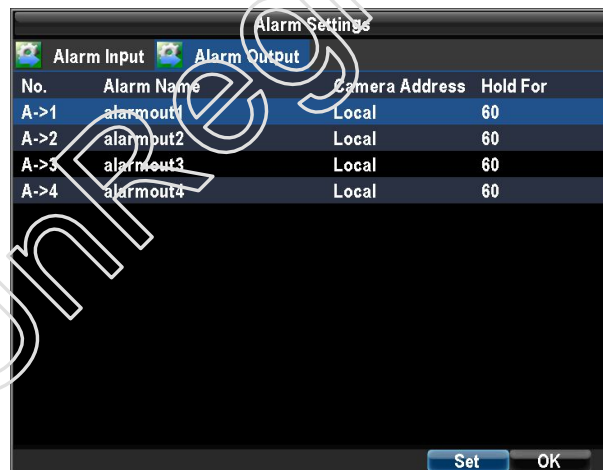
2. Select the Handle tab.



Enable **Audio Warning** as

6.6 Setting up Trigger Alarm Output

1. Select the **Alarm Output** tab in the Alarm Management menu.
Menu→ Configuration→ Alarm Settings



Select the output you would like to configure and click the Set button. This will bring up the settings page for the selected channel.

2. Set the schedule of when you want Alarm output to be enabled. Schedule can be set for all week or any day of the week with up to 8 time periods per day. It is important to note that time periods cannot be overlapped.



3. Click **Apply** to finish configuration. Repeat steps 2 for other camera. If other channels settings are the same, copy this settings to other channels in Advanced tab.

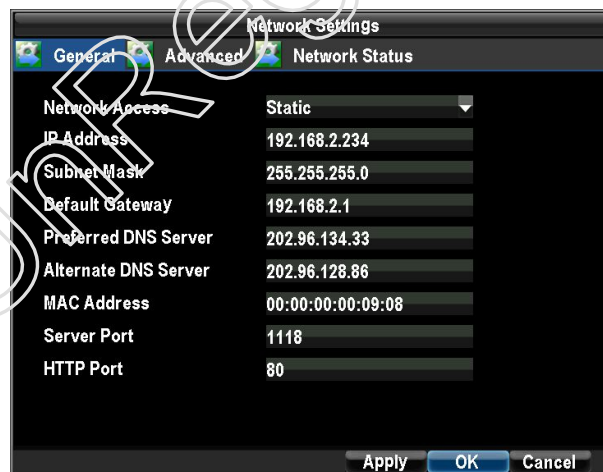
Note: If there is time delay, please remove alarm manually through Manual Alarm menu in MENU interface.

Send Email

1. Enter the Network Settings menu by clicking Menu → Configuration → Network Settings.

Select the General tab to set IP Address, Subnet Mask, Default Gateway, DNS Server.

Select the Advanced tab.



2. Click Email Settings button to enter email setup menu.



3. Enter Email Settings

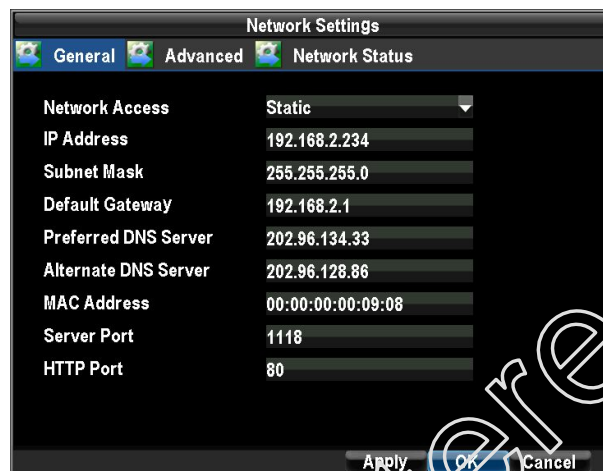


Select **Attached Picture** if you want to send email with alarm images, the interval of two adjacent pictures is 30s. You can also set SMTP port and enable SSL here.

7. Network Settings

7.1 Configuring Basic Settings.

To configure basic network settings: Enter the Network Settings menu by clicking Menu → Configuration → Network Settings.

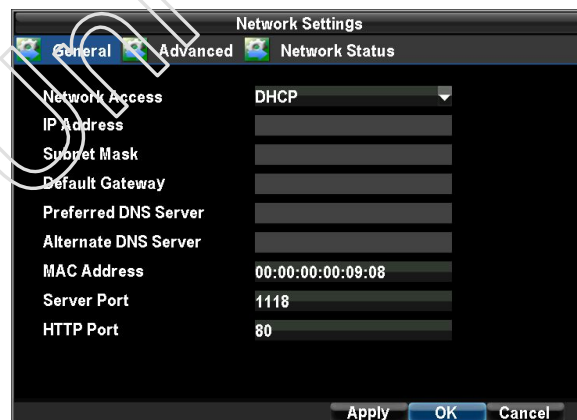


Note: If the DVR is connected to routers, STATIC or DHCP can be selected as network access. If the DVR is connected to ADSL, PPPoE should be selected.

DHCP

Select **DHCP** in **Network Access**, and then click **OK**.

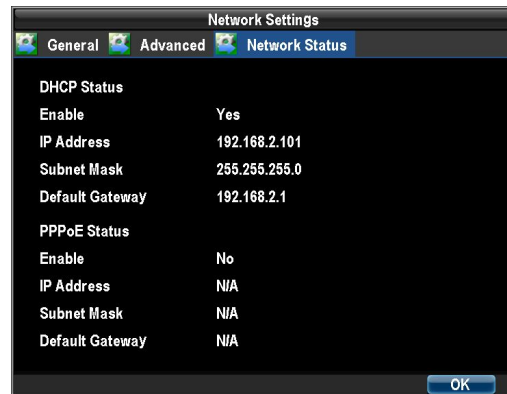
Set Server Port and HTTP Port



Note: Every port, including the SERVER PORT, HTTP PORT must be forwarded in the router. If the HTTP Port number is 80 or 8080, the port number can be omitted. For example: http://192.168.0.233, if the port number is 81, then it should be http://192.168.0.233:81. This can be applied to WAN as well.

DHCP status: Menu → Configuration → Network Settings.

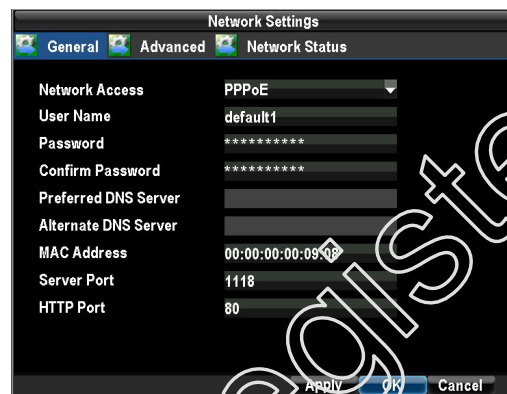
Check the DHCP status in **Network Status** tab.



PPPoE

1. Select General tab in Network Settings interface by clicking Menu → Configuration → Network Settings.

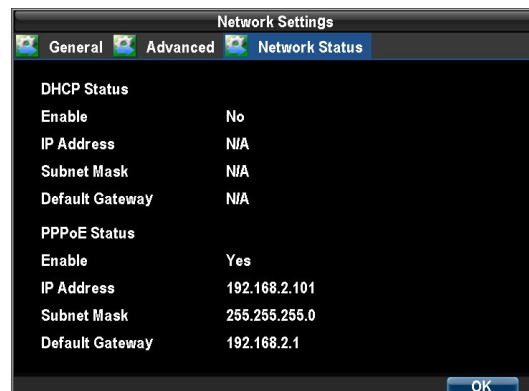
2. Select **PPPoE** in **Network Access**



Note: If the HTTP Port number is 80 or 8080, the port number can be omitted. For example: http://192.168.0.233, if the port number is 81, then it should be http://192.168.0.233:81. This can be applied to WAN as well.

PPPoE status: Menu → Configuration → Network Settings.

Check the PPPoE status in **Network Status** tab.

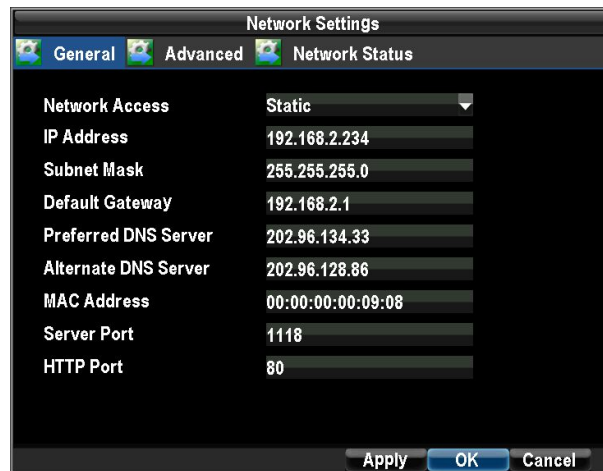


Static

Select General tab in Network Settings interface by clicking Menu → Configuration → Network

Settings.

Select **Static** in **Network Access** and set its Server Port and HTTP Port.



Note: Every port, including the SERVER PORT, HTTP PORT must be forwarded in the router. If the HTTP Port number is 80 or 8080, the port number can be omitted, i.e. http://192.168.0.233, if the port number is 81, then it should be http://192.168.0.233:81. This can be applied to WAN as well.

7.2 Configuring Advanced Settings.

7.2.1 DDNS

DDNS(Dynamic Domain Name Server), providing access by domain names, can effectively solve the problems caused by dynamic IP.

To setup DDNS:

1. Enter the Network Settings menu by clicking Menu →Configuration→Network Settings.

Select the **Advanced** tab. Select the Set button next to DDNS to enter the DDNS settings menu.



2. Check the **DDNS** checkbox to enable feature.

Select **DDNS Type**. Support 3322 ,DynDNS, and Peanut Hull.

3322: Enter **Device Domain name** for 3322 (i.e. *test.3322.org*) obtained from the website *www.3322.org*.

Lastly, enter the **User Name** and **Password** registered in the 3322 network.



The screenshot shows the DDNS configuration interface. The 'DDNS' checkbox is checked. The 'DDNS Type' is set to '3322'. The 'Device Domain Name' is 'test-3322-org'. The 'User Name' is 'test'. The 'Password' and 'Confirm Password' fields are masked with asterisks. There are 'OK' and 'Cancel' buttons at the bottom right.

Field	Value
DDNS	<input checked="" type="checkbox"/>
DDNS Type	3322
Device Domain Name	test-3322-org
User Name	test
Password	*****
Confirm Password	*****

DynDNS: Enter **Device Domain Name** (i.e. *test.dyndns.org*) obtained from the website *www.dyndns.com*.

Lastly, enter the **User Name** and **Password** registered in the DynDNS network.



The screenshot shows the DDNS configuration interface. The 'DDNS' checkbox is checked. The 'DDNS Type' is set to 'DynDns'. The 'Device Domain Name' is 'test-dyndns.org'. The 'User Name' is 'test'. The 'Password' and 'Confirm Password' fields are masked with asterisks. There are 'OK' and 'Cancel' buttons at the bottom right.

Field	Value
DDNS	<input checked="" type="checkbox"/>
DDNS Type	DynDns
Device Domain Name	test-dyndns.org
User Name	test
Password	*****
Confirm Password	*****

Peanut Hull. Enter the User name and password registered in Peanut Hull network.



The screenshot shows the DDNS configuration interface. The 'DDNS' checkbox is checked. The 'DDNS Type' is set to 'Peanut Hull'. The 'Device Domain Name' is 'default'. The 'User Name' is 'default'. The 'Password' and 'Confirmed Password' fields are masked with asterisks. There are 'OK' and 'Cancel' buttons at the bottom right.

Field	Value
DDNS	<input checked="" type="checkbox"/>
DDNS Type	Peanut Hull
Device Domain Name	default
User Name	default
Password	*****
Confirmed Password	*****

7.2.2 NTP

A Network Time Protocol (NTP) Server may also be setup on your DVR to keep the date and time current and accurate.

To setup an NTP server:

1. Enter the Network Settings menu by clicking Menu → Configuration → Network Settings.

Select the **Advanced** tab.

Select the Set button next to **NTP** to enter the NTP settings menu.



2. Check the **NTP** checkbox to enable feature and Set NTP settings:

Note: If the DVR is used on a public network, you should use a NTP server that has a time synchronization function, such as the server at the National Time Center (IP Address: 210.72.145.44). If the DVR is setup in a more customized network, NTP software can be used to establish a NTP server used for time synchronization.

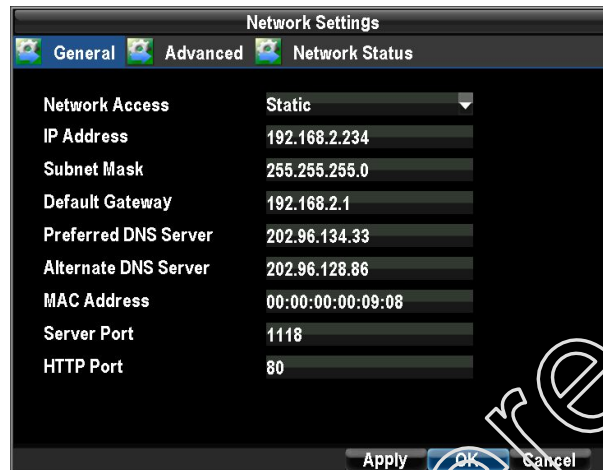


7.2.3 Email Settings.

To configure E-mail settings:

1. Enter the Network Settings menu by clicking Menu → Configuration → Network Settings.

Set IP Address, Subnet Mask, Default Gateway, DNS Server, MAC Address, Server Port, HTTP port. Select the **Advanced** tab.



2. Click the Set button next to **E-mail** to enter the E-mail menu.



3. Enter e-mail settings.



The image shows a dialog box titled "Email Settings" with a black background and white text. It contains several configuration options:

Setting	Value
Enable SSL	<input checked="" type="checkbox"/>
SMTP Server	smtp.gmail.com
SMTP Port	25
Sender Address	sender@gmail.com
Sender Password	*****
Receiver Address	receiver@gmail.com
Attached Picture	<input checked="" type="checkbox"/>

At the bottom of the dialog box, there are three buttons: "Send Email", "OK", and "Cancel".

Select **Attached Picture** if you want to send email with alarm images, the interval of two adjacent pictures is 30s. You can also set SMTP port and enable SSL here.

8. PTZ Controls

8.1 Configuring PTZ Settings.

Note: Settings for a PTZ camera must be configured before it can be used. Before proceeding, verify that the PTZ and RS-485 of the DVR are connected properly and configure PTZ decoder settings.

To configure PTZ settings:

Enter the PTZ Settings menu by clicking Menu → Configuration → PTZ Settings.



For quick access to certain PTZ settings, right clicking with the mouse in a display while in PTZ control mode will bring up the PTZ settings menu.

Note: All the settings including Baud rate, Data Bit, Stop Bit, Parity, Flow Ctrl, PTZ Protocol and address should be in accordance with that of PTZ decoder.

8.2 Setting up and calling PTZ Presets, Patrols & Patterns.

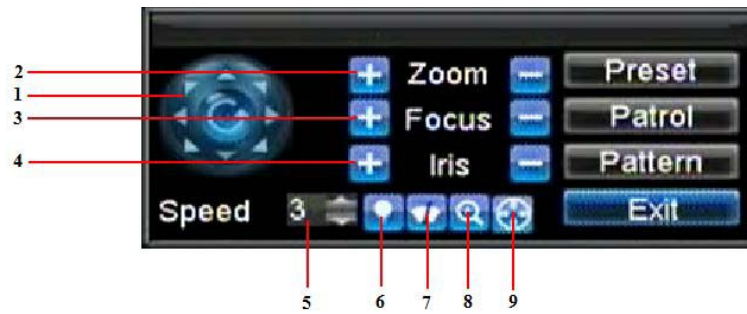
Note: Configure presets, patrols and patterns in PTZ Control interface, and check whether your PTZ decoder supports these functions before configuring.

Setting up and calling Presets.

To setup and use PTZ presets:

1. Enter the PTZ Control interface.

Select the Preset button or select **Preset** in right click menu to enter the Preset Management menu.



2. To setup and call PTZ presets:

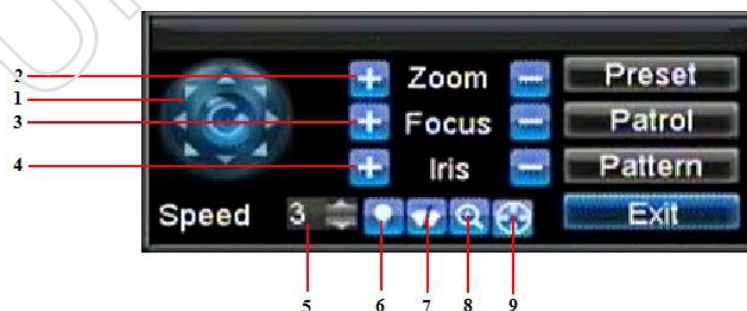
Select a preset number and click **Set** (Use the PTZ control panel or drag the picture or through front panel/remote/keyboard operation to adjust the position of the preset). Select a Preset number and click the Clear button to delete the preset. You may also select the Clear All button to delete all presets. Select a Preset and click the Call button to call preset.

Note: Only valid presets can be called and deleted.



Setting up and Calling PTZ Patrols

1. Enter the PTZ Control interface by clicking PTZ in the mouse menu or the PTZ button on the front panel. Select the Patrol button or **Patrol** in right click menu to enter the Patrol Management menu.



2. Select a **Patrol Number** to set.

Select valid presets and click the Set button to enter the Patrol configuration menu. A sequence should have at least 2 valid presets.



Set the Preset Name, Duration, and Speed.

Select preset number you want to set as key points and click **Add** to finish the patrol configuration. Click the Clear button to delete patrol.



The Key Point No. determines the order at which the PTZ will follow while cycling through the patrol. The Duration refers to the time span to stay at the corresponding key point. The settings of Patrol is determined by PTZ Protocols.

3. Call patrol.

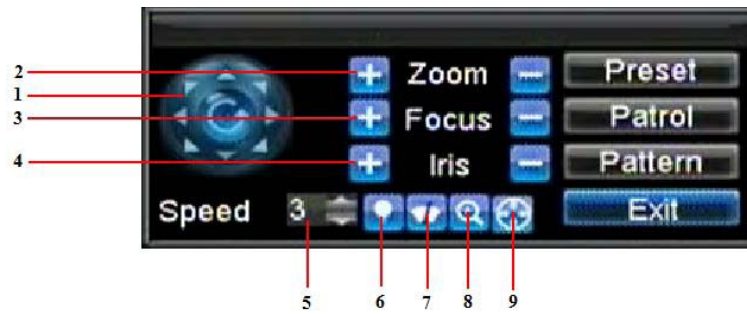
Select a valid **Patrol Number**.

Click the Start button to call the patrol, select the stop button to stop the patrol.



Setting up and Calling Patterns.

1. Select the Pattern button to enter the Pattern Management menu.



2. Select a patrol number.

To record a new pattern, select the Run Record button to start recording of the movements of the PTZ. Use the PTZ control panel to move the PTZ. The PTZ movements will be recorded until the Stop Record button is clicked.



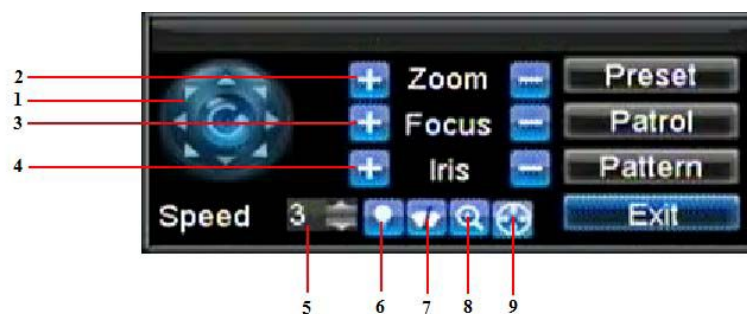
3. Call Pattern.








Select a valid **Patrol Number**.

Click the Start button to call the patrol, select the stop button to stop the patrol.

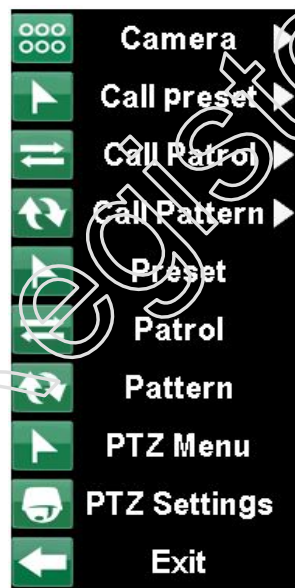
8.3 Understanding PTZ Controls.

Before setting presets, patrols and patterns, it's important to understand some of the features of the PTZ control panel



Button	Function	Button	Function	Button	Function
	Controls the movement and the direction of PTZ. Center button is also used to start auto-scan of PTZ.		Used to zoom in with the PTZ.		Used to zoom out with the PTZ.
Speed	Adjusts the movement speed of the PTZ.		Turns PTZ light (if applicable) on and off.		Turns PTZ wiper (if applicable) on and off.
	Instantly zooms PTZ in.		Centers PTZ	Preset	Preset button
Patrol	Patrol button	Pattern	Pattern button	Exit	Exit button

Right click menu



Camera: Select a PTZ camera.

Call Preset: Call a PTZ preset.

Call Patrol: Call a PTZ sequence.

Call Pattern: Call a PTZ pattern.

Preset: Enter PTZ preset configuration menu.

Patrol: Enter PTZ patrol configuration menu.

Pattern: Enter PTZ pattern configuration menu.

PTZ Menu: Enter the menu of PTZ.

PTZ Settings: Enter PTZ setting menu.

9. Camera Management

9.1 Configuring OSD Settings

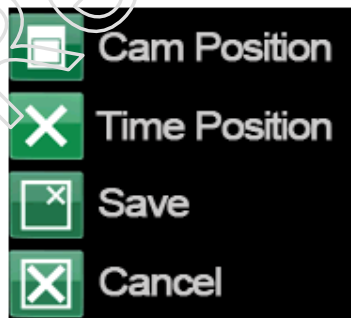
To configure OSD settings:

1. Enter the Camera Management/Settings menu, by clicking Menu → Configuration → Camera Settings. Select channel to setup OSD settings under **Channel #**. Click the Set button.



2. Configure desired OSD settings.

The OSD is shown in each display during Live Preview mode and includes the time and date as well as the camera name.



9.2 Setting up Privacy Mask.

To setup privacy mask:

1. Enter the Camera Management/Settings menu by clicking Menu → Configuration → Camera Settings. Select channel to setup privacy mask under **Channel #**. Click the Set button. Select the **Advanced** tab to enter the Advanced Camera Settings menu.



2. Check the Mask checkbox to enable feature. Click the Area Settings button to enter Area Settings menu. Setup mask area. Up to 4 areas can be set., biggest area can be full screen.

3. Select OK to save and exit mask setup.

Repeat step 2 to set other channel. If other channels settings are the same, copy the setting to other channel.

9.3 Adjusting Display Settings.

Display settings such as the brightness, contrast, saturation and hue can also be adjusted in the Camera Management menu.

To adjust display settings:

1. Enter the Camera Management/Settings menu by clicking Menu → Configuration → Camera Settings. Select the **Advanced** tab to enter the Advanced Camera Settings menu.

2. Click the Set button next to the **Image Settings** label.



3. Adjust the display settings. Brightness, contrast, saturation and hue can be adjusted. The adjustments of display settings not only affect previewed images, but also recorded images.

10. HDD Management

10.1 Initializing a HDD

1. Enter the HDD Management menu by clicking Menu →HDD Management.



Select HDD to initialize. Click the Init button.



Note: Initializing the HDD will erase all data on it. Click OK button to start initialization.



After the HDD has been initialized, the status of the HDD will change from No to Yes.

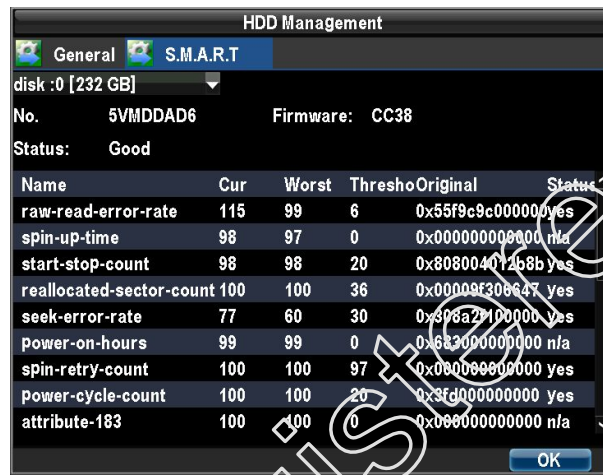
10.2 Checking HDD Status.

Checking HDD Status will enable you to find HDD problems timely and solve them.

To check the status of a HDD:

Enter the HDD Management menu by clicking Menu→HDD Management.

Select **S.M.A.R.T** tab. From S.M.A.R.T, we can see the status of the HDD and the detailed information of HDD.



The screenshot shows the 'HDD Management' window with the 'S.M.A.R.T' tab selected. It displays information for 'disk :0 [232 GB]' with model '5VMDDAD6' and firmware 'CC38'. The status is 'Good'. Below this is a table of S.M.A.R.T attributes.

Name	Cur	Worst	Thresho	Original	Status
raw-read-error-rate	115	99	6	0x55f9c9c00000	yes
spin-up-time	98	97	0	0x000000000000	n/a
start-stop-count	98	98	20	0x80800401268b	yes
reallocated-sector-count	100	100	36	0x00000f300627	yes
seek-error-rate	77	60	30	0x308a2f100000	yes
power-on-hours	99	99	0	0x633000000000	n/a
spin-retry-count	100	100	97	0x000000000000	yes
power-cycle-count	100	100	20	0x9fd000000000	yes
attribute-183	100	100	0	0x000000000000	n/a

Note: This can only work when the HDD is in good status. If the HDD status indicates the HDD has not been initialized or worked abnormally, please start initialization and change a disk if necessary.

10.3 Configuring HDD Alarms.

HDD alarms can be set to trigger when an HDD is full or in an abnormal state.

To set HDD alarms:

Enter Exception menu by clicking Menu→Configuration→Exception.

Select HDD Error under **Exception Type**.

The triggering options that you may select include: Audio Warning, Trigger Alarm Output, Send Email (See 6.6 for details).

11. User Management and System Maintenance

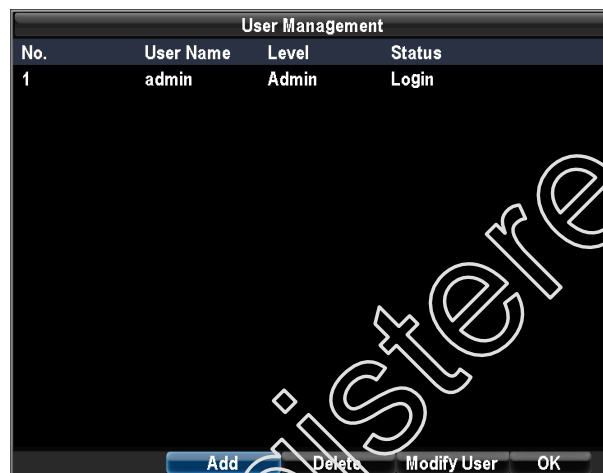
11.1 Managing User Account.

By default, your DVR comes with one user account, the Administrator account. The Administrator user name is **admin** and the password is **12345**. The Administrator has the authority to add, delete or configure parameters for many of the system functions.

To add new users:

1. Enter the User Settings menu by clicking Menu→Configuration→User Management.

Select the Add button to enter the Add User menu.



Note: You may add up to 11 new users to your DVR.

2. Enter information for new user.

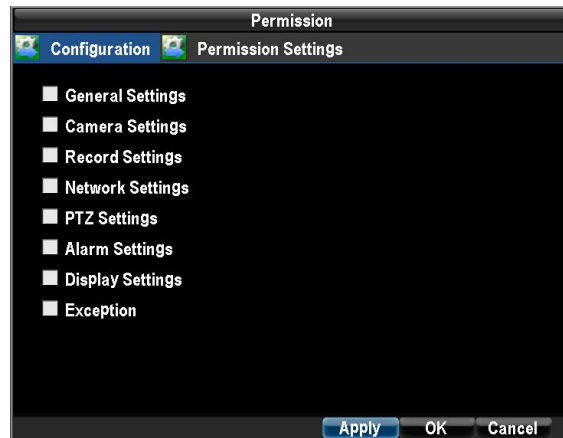
Select the Permission button to enter the Permission Settings menu.

Fields:

- User Name: user
- Password: *****
- Confirm Password: *****
- Level: Guest

Buttons: Permission, OK, Cancel

3. Configure the **Configuration** and **Permission Settings** in permission menu.

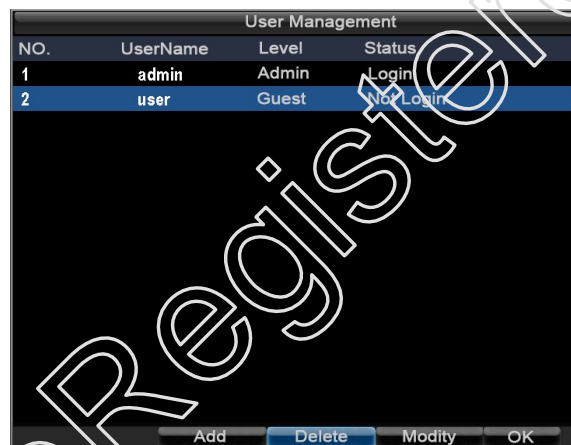


To delete a user from the DVR:

Enter the User Settings menu by clicking Menu→ Configuration→ User Management.

Select user to delete. Click the **Delete** button to delete user. Click the OK button to exit menu.

Note: The Administrator can not be deleted.

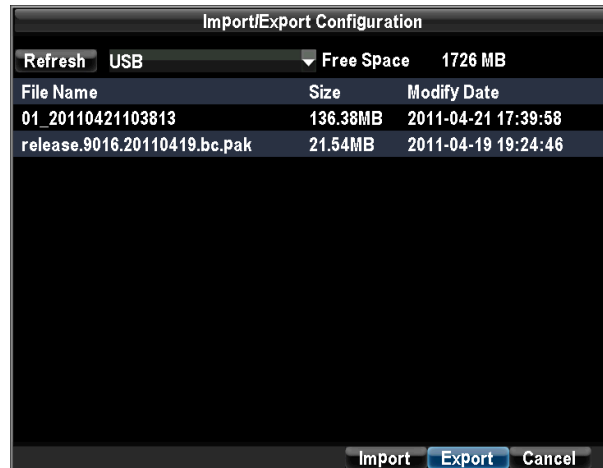


To modify a user:

1. Enter the User Settings menu by clicking Menu → Configuration → User Management.

Select user to modify. Click the Modify button to enter the Modify menu.





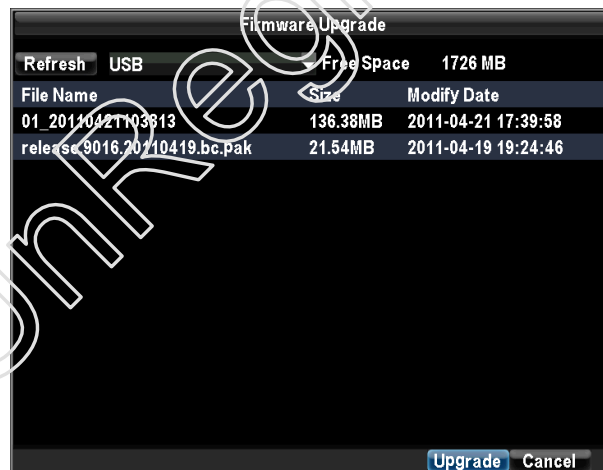
Click Export to export a configuration file to USB device. USB device must be connected at this point to the DVR. To import a configuration file, select the file from the USB device and click the Import button. After the import process is completed, you must reboot the DVR. Click Cancel to exit out of menu.

11.4 Updating System Firmware.

To update via an USB device:

Connect USB device to DVR. The firmware file must be located in the root directory of your USB device.

Enter the Firmware Update menu by clicking Menu → Maintenance → Firmware Upgrade.



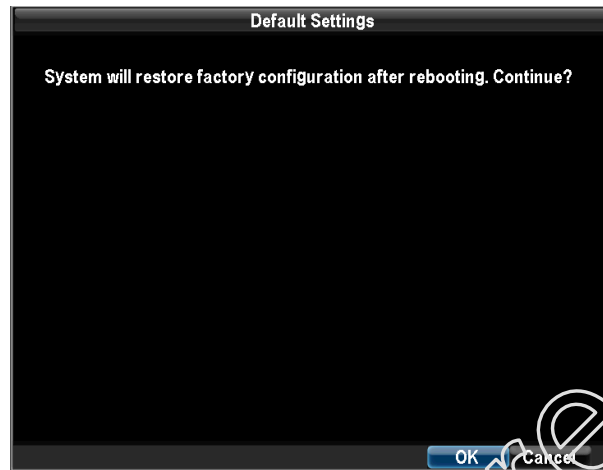
Select the firmware on the USB device. Select Upgrade to begin the update process. After the system firmware has been updated, reboot the DVR.

Note: If the DVR fails to update, please contact your system supplier for further assistance.

11.5 Other Settings.

To restore default factory settings to your DVR:

Enter the Default Settings menu by clicking Menu → Maintenance → Default Settings. Select OK to restore factory defaults.



Note: All the parameters settings except for language, video standard, time zone, display date format and system time, would be restored to default factory settings

Viewing System Information.

Enter into the Information menu by clicking Menu → Maintenance → System Information.



12. Other Settings.

12.1 Configuring Video Standard, VGA/HDMI Resolution Settings

Enter the General Settings menu by clicking Menu → Configuration → General Settings.

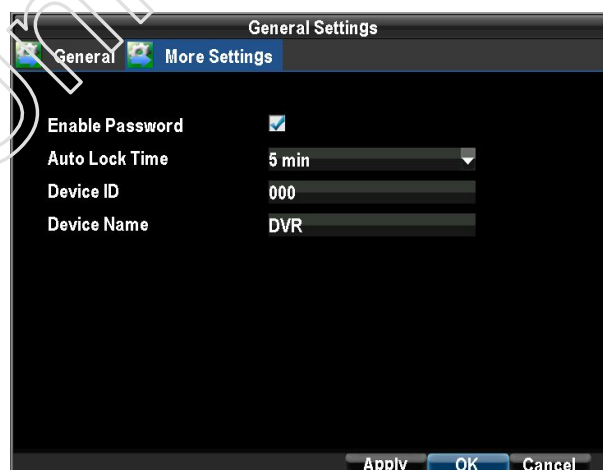


Note: If the video standard is different between the input (camera) and the output (the TV, VGA or HDMI), you may notice flickering in Live Preview mode (PAL/NTSC optional). Video out supports PAL and NSTC, while video input standard is adaptive.

12.2 Device ID and Device Name settings.

Enter the General Settings menu by clicking Menu → Configuration → General Settings.

Click the **More Settings** tab; this will take you to the More Settings menu.



Enable the password.

Device ID ranges from 0 to 255, 000 is the default ID.

12.3 Triggering Alarm Manually.

The sensor alarm can be start/stop manually, the alarm will only stop when you manually stop it

Enter the Manual Alarm menu by clicking Menu > Manual Alarm.

Manual Alarm			
No.	Alarm Name	Camera Address	Trigger
A->1	alarmout1	Local	No
A->2	alarmout2	Local	No
A->3	alarmout3	Local	No
A->4	alarmout4	Local	No

Trigger Trigger All Clear All OK

Trigger: Select an alarm from the list and click Trigger to trigger its output.

Trigger All: Trigger all alarm outputs at once.

Clear All: Stop all alarm outputs at once.

12.4 Locking, Shutting Down and Rebooting Your DVR.

Enter the Shutdown menu by clicking on Menu → Shutdown.



Select Lock button to lock the DVR, Shutdown to shutdown it and Reboot button to reboot it.

Locking your DVR will return you to the Live Preview mode, which will require an user name and password to exit out of it.