

SEC-DVR504 SEC-SETDVR20 SEC-SETDVR30 SEC-SETDVR40



MANUAL (p. 2) Full Manual



CAUTION!

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER WHILE THE DEVICE IS CONNECTED TO A POWER SOURCE. THE DEVICE'S INTERNAL PARTS CANNOT BE SAFELY REPAIRED BY USERS. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



WARNING!

TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



NOTE: This device has been tested and found to comply with the limits (what limits? You need to tell me) for Class A digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the device is operated in a commercial environment. This device generates, uses, and can transmit radio frequency energy, and, if not installed and used in accordance with the instructions in the user manual, may cause harmful interference with radio communications.



FCC Caution: To ensure continued compliance, use only shielded interface cables when connecting this device to computers or peripheral devices. Any changes or modifications (COMMENT: changes or modifications to what? not expressly approved by LB Tech could void the user's authority to operate this device.



This Class A digital device meets all the requirements of the FCC Regulations.

CE

LIMITATION OF LIABILITY

- This user manual is supplied "as is", with no warranties, be it expressed or implied, including, but not limited to the implied warranties of merchantability, suitability for any exact purpose, or non-infringement on any third party's rights.
- This publication may include technical inaccuracies or typographical errors. The manufacturer holds the right to introduce any changes to the information contained herein for any purpose, including, but not limited to improvements of the product and publications related to it, at any time, without prior notice.

DISCLAIMER OF WARRANTY

The supplier shall not be liable to any party or any person, except for replacement or reasonable maintenance of this product, for the cases including, but not limited to the following:

- Any damage or loss, including, but not limited to: direct/indirect, consequential, special, exemplary use arising out of or related to the product;
- Inappropriate use or negligence of the user during operation of the product, resulting in personal injury or any damage;
- Unauthorized disassembly, repair, or modification of the product by the user;
- Any problems or consequential inconvenience, loss, or damage caused by connecting this product to devices of the third parties;
- Any claim or action for damages brought by any photogenic subject, be it a person or an organization, due to invasion of privacy whereby the surveillance picture and/or saved data becomes public or is used for purposes other than surveillance.

SAFETY INSTRUCTIONS

Read these instructions and keep them in a safe place for future reference.

- Please refer all servicing related to the installation of this product to qualified service personnel or system installers.
- Do not operate the device under conditions outside its recommended temperature, humidity or power source ratings.
- Place the unit on a flat surface not prone to vibration or impact.
- Use the appliance at temperatures between 0oC- 45oC (32oF -113oF) and humidity below 85%.
- The input power source for this appliance should be between 90-230V AC, 47-63 Hz.
- Install the unit away from heat sources such as radiators, heat registers, and stoves. Installation of the unit near consumer electronics, such as stereo receivers/amplifiers and televisions, is permitted as long as the air surrounding the terminal does not exceed the aforementioned temperature range.
- Handle hard disk drives with care.

It is possible to damage hard drives if they are moved while their motors are still running. To allow the hard drive to spin down and park its heads, wait at least 10 seconds after disconnecting it from a power source before moving the unit.

To avoid shock and vibration damage to the internal hard drive, do not move the unit while it is plugged in. Protect hard disk drives from static electricity.

Do not stack hard disk drives or keep them upright.

Do not use an electric or magnetic screwdriver to repair hard disk drives.

- Do not impede the flow of air through the vents or place the unit in an enclosed area where the cooling vents are blocked.
- Protect the power cord from being stepped on or pinched, particularly at plugs and the points where they
 connect to the device.
- Do not drop metallic parts through slots, as this could permanently damage the device. If a metallic object falls through the slots, turn the power off immediately and contact qualified service personnel for service.
- Handle the device with care. Do not drop or shake it, as this may damage the device.
- Do not expose the device to moisture or try to operate it in wet areas. Do not install the unit in an area where condensation occurs. Do not operate with wet hands. Take immediate action if the appliance becomes wet. Turn the power off and refer servicing to qualified service personnel, as moisture may damage the appliance and cause electric shock.
- Do not use strong or abrasive detergents when cleaning the body of the device. If dirt is difficult to remove, use a mild detergent and wipe gently.
- Do not overload outlets and extension cords, as this increases the risk of fire and electric shock.
- Make a note of your settings and save them in a place where you can easily find them. This will help if it becomes necessary to change the system configuration, or if an unexpected failure or problem occurs.
- Distributing, copying, disassembling, reverse compiling, reverse engineering, and exporting the software
 provided with this product in violation of export laws, is expressly prohibited.



CARING FOR THE ENVIRONMENT BY RECYCLING

When this symbol appears on a product, do not dispose of it with residential or commercial waste.

Recycling Electrical Equipment

Do not dispose of this product with residential or commercial waste. Some countries and regions, such as the European Union, have established systems for collecting and recycling electrical and electronic waste items. Contact your local authorities for information about practices established for your region

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1. YOUR DVR AT A GLANCE

Product Overview

Model	4 CH
Video Format	PAL/NSTC
Video Compression	H.264 Baseline Compression
Video Input / Output	BNC 4CH Input / 1CH Output
Alarm Type	Motion detection, Video Loss, HDD loss
Display Frame Rate	Each Channel PAL:25 FPS, NTSC:30 FPS
Playback Resolution	CIF/HD1/D1 @ Recorded frame rate
Recording Speed – frames per second (FPS)	PAL: 100 FPS@CIF, 100 FPS @ HD1, 50 FPS @ D1. NTSC: 120 FPS @ CIF, 120 FPS @ HD1, 60 FPS @ D1.
Recording Modes	Power-on Auto Record, Scheduled Record (Normal Recording, Motion Detection), Manual Recording
HDD Interface	SATA Interface support 2TB, HDD*1
Network Protocol	TCP-IP/ DHCP/DDNS/PPPOE/E-Mail
Network Functions	Live Monitoring, Playback, Configuration, Backup, Mobile Phone Surveillance
USB 2.0 Interface	Mouse / Portable Mobile HDD/ Flash Drive/ Firmware Upgrade
Playback Options	Normal, Fast Forward, Slow Forward, Rewind, Single Step
Network Interface	RJ45 10M/ 100M Ethernet Auto-Detect
Area Covered	Each channel supports coverage of four different areas
Video Backup	h.264 or .avi
Power Adapter	DC 12V
Power Consumption	10-15W
Operating Temperature	-10°C-+40°C
Operating Humidity	10%-90%
Dimensions	250(W) *218 (D) * 42 (H) mm

Congratulations on purchasing a state-of-the-art Digital Video Recorder (DVR). This DVR offers the industry's best triplex functionality with video/audio recording, playback, and network capability, which can all be run simultaneously, streamlining the use of CCTV systems and boosting the security level of the home, business, or social venue where it is installed. Users can access live or recorded feed from standard cameras directly at the location of the DVR installation, or anywhere in the world using web-browsers or a mobile phone. The video may be stored at a remote location for safety.

(Some limitations apply to Web- and phone-based features; please see the related sections for more detailed information.)

Users are advised to become familiar with the DVR's parts and accessories, as well as how to use the device as described in this instruction manual. For any questions that this guide does not answer, please contact a local vendor or a certified specialist.

In this manual, "-ch" and "CH" are used as abbreviations for "channel", so, for example, "4-ch" means "4-channel" (i.e. a 4-channel DVR model).

2. Contents of the Package

- Digital Video Record (DVR)
- User manual
- Installation CD
- Remote control
- Power cord
- Mouse (varies by model)
- Hard disk drive (varies by model) (if you would like to use your own hard disk drive(HDD), please see Appendix 2. DVR-Compatible Hard Disk Drives for a list of compatible HDDs)

2.1 Getting Started Checklist

Before setting up this DVR, check to make sure the answer to all of the following questions is "yes":

- a) Are the power and video in/out cables plugged in? Please see Section 3.5.1 Basic Connections for more information.
- b) Has the HDD been properly installed and formatted? Please see Sections 3.5.2 Installing Hard Disk Drives (HDDs) and 5.2.5 HDD (Hard Disk Drive) for more information.

3. Hardware

3.1 Front Panel (Please take actual machine model as quasi)

The appearance of the front panel varies slightly with each different DVR model.

This subsection will explain the functions of each of the buttons and other components on the front panel of the DVR.

• 🔄 📑 🖬 🖬 buttons

Using these buttons, you can choose to display video on your monitor either as a full-screen view of each of the cameras individually (

• ◀, ▶, ▲, ▼, ← buttons

Use the arrow buttons to select menu items. Press the "Enter (+)" key to confirm your choice.

• Power LED, Record LED

LED lights indicate the DVR's connection to the power supply, recording status

- Menu (Press this button to access the toolbar, hide the toolbar, enter or exit from the menu, and enter or exit sub-menus.
- **Rewind** (<<): Press this button to rewind the video during playback.
- **Play/Pause** (**)**/**||**): Pres this button to open the video search function and the playback menu. When the playback mode is activated, press this button to play/pause playback.
- **Stop** (**•**): Press this button to stop playback.
- **Fast Forward** (►►): Press this button to fast forward the video during playback.
- REC (•): Press this button to start or stop manual recording.
- IR Window (): Infrared sensor for remote control.
- **USB Connector**: Use these USB ports to connect backup devices (i.e. flash drives, USB DVD recorders, etc.) or a mouse to the DVR. (Optional)

NOTE: On live view, press the 📕 button 10 times when there is no toolbar, and this will switch the main menu between CVBS video output and VGA video output.

3.2 Back Panel (Please take actual machine model as quasi)



1. USB connectors

Use these USB ports to connect the mouse and backup devices (flash drives, portable mobile HDD) to the DVR.

2. VGA Connector

For connecting the DVR to a VGA/LCD monitor

3. Video Input Connectors (Video IN 1-4)

4 channels video input connectors for connecting to analog video signal input (BNC, 1Vp-p, 75Ω)

4. Power Input Socket (12V DC)

5. Ethernet Connector

RJ-45 10/100 Base-T Ethernet network

6. Video Output Connector

Video output for connecting the DVR to a monitor or TV, (BNC, 1Vp-p, 75Ω)

7. Ground

3.3 Remote Control (Please take actual machine model as quasi)

Pressing the "enter" key on the remote control or the front panel of the DVR has the same function as left-clicking a mouse. The functions of the buttons on the remote control are identical to the functions the buttons with the same markings on the front panel of the DVR.

Stop (
): Press this button to stop playback.

Play/Pause (▶/II): Press this button to open the video search function and the playback menu. When the playback mode is activated, press this button to play/pause playback.

 $(\blacktriangle \blacktriangleleft \blacktriangledown \blacktriangleright)$: Move selected item in menu.

Menu (MENU/ESC): Press this button to access the toolbar, hide the toolbar, enter or exit from the menu, and enter or exit sub-menus.

Lock (a): the password is enabled, press this button to log out of the system.

Numerical Buttons: Using these buttons, you can choose to display video on your monitor either as a full-screen view of each of the cameras individually (Channels 1 through 4).

Rewind (**<**): Press this button to rewind the video during playback.

Fast Forward (▶▶): Press this button to fast forward the video during playback.

ENTER: This button is used as the "enter" key in most circumstances (i.e. for selecting items from a menu).

Spot View (): Press this button to enable auto sequencing.

Mute ON/Mute Off (): Press this button to turn the sound on or off.

Quad (Press this button to switch display modes to all channels simultaneously.

REC (•): Press this button to start or stop manual recording.

3.4 Mouse Control

As well as the remote control and the buttons on the DVR itself, you can use a mouse to operate the DVR. The mouse operates just like a mouse on a typical computer. To start, connect the mouse to the USB port in the back panel of the DVR; note that you can hot-plug the mouse.

Right-clicking	In live view, right-clicking will either display or hide the toolbar.				
	From the main menu or a sub-menu, right-clicking will exit the current menu. Note that any changes to settings will not be saved after right-clicking.				
Left-clicking	In menu unlock mode, left-clicking on the SYSTEM SETTINGS icon in the tool bar will open the main menu.				
	After entering the main menu, left-clicking will open sub-menus.				
	In the "detail files" menu mode, left-clicking will play back one recording file.				
	By left-clicking, you can select values in edit boxes or pull down menus The system supports the input of Chinese characters, and other special symbols, numbers, and letters.				
	On the playback interface, left-clicking can control the fast-forward function, the rewind function, the slow-motion function, frame-by-frame playback function, the normal play function, and can stop any of these processes or be used to exit from a mode or menu.				
	Left-clicking can be used to access the color control bar, the volume control bar, and the screen control bar.				
	From the main menu, sub-menus, or playback view, left-clicking "x" will exit the current menu.				
	Left-clicking can also be used to select menu items.				
Double-clicking left mouse key	In live view or video playback, double-clicking will maximize the screen.				
Mouse drag	In the motion detection setting interface, you can left-click and then drag the frame to set the motion detection area.				

3.5 Hardware Installation

It is recommended that the installations described below be carried out by qualified personnel.

3.5.1 Basic Connections

Cameras

Connect each of the cameras' outputs to the video input sockets in the rear panel of the DVR using the appropriate cables. The video input interface is a standard BNC connector, 1Vp-p, 75 Ω . Keep the video signal cable away from strong electromagnetic and electric interference.

Monitor

Connect the main output connector to a monitor or a TV screen. Use a BNC-to-RCA converter, if needed, to work with the Audio/Video RCA cable.

Power

Use the 12V DC adapter supplied for connecting your DVR device to the power source.

Ethernet

For remote access to the video images from your cameras via LAN or Internet, connect a standard RJ-45 twisted-pair Ethernet cable to the Ethernet port.

USB

Use this port for connecting the mouse or USB flash drives. The USB mouse can be hot plugged.



NOTE: The device only supports the FAT32 file system on USB devices.

3.5.2 Installing Hard Disk Drives (HDDs)



Before you can record onto your HDD, it must be formatted by the DVR system because standard PC formatting is not compatible with the DVR. It can be done through the "Maintenance" tab of the main menu in the toolbar. Refer to Section 5.2.5 HDD (Hard Disk Drive) for a detailed description of this process. Depending on the size of your HDD, the formatting process can take up to several minutes.





The HDD should be installed inside the DVR. Connect the HDD in according to the instructions, screwing the HDD into the HDD brackets or DVR base. All necessary cables are included with the DVR. If using a hard drive from another manufacturer, use instructions that came with the hard drive for specific details on proper wiring and installation. Connect the power cable to the appropriate socket, and connect the data cables to their corresponding ports.



For a list of HDDs tested and approved for compatibility with DVRs, see Appendix 2. DVR-Compatible Hard Disk Drives.

4. Getting Started and the Main Screen

- 1) Turn on the DVR and wait for the system program to load. If any of the following conditions are true.
 - You have not yet installed a hard disk drive into the device.
 - The DVR cannot read the HDD.
 - If a new HDD has been installed in the DVR but has not yet been formatted.
 - There is not enough space on the HDD to record, it will display a red "X" icon ()) in the video preview interface. The HDD must be formatted in the DVR before use.

To format the HDD, first, from the main menu, select "System settings." Click "SYSTEM", then select "HDD management", and lastly, select "format." If the HDD is already installed, the default setting is for the DVR to start recording and a red dot icon () on the screen will indicate that it is functioning normally.





4.1 The Main Screen

The standard layout is four windows evenly distributed over the screen. From the main screen, you can access menu options and switch among channel views, displaying either all channel feeds simultaneously or displaying a full-screen view of a single selected channel.



4.1.1 Displaying a Single Channel

In the multiple-screen view, you can make a particular window active by left-clicking on it once with a mouse, or navigating to it using directional buttons (\triangleleft , \triangleright , \blacktriangle , \bigtriangledown).

To display a full-screen view of a single channel, press the corresponding numerical or positional buttons (

In order to return to the multi-screen view, either double-click on the screen again or press the single-/multiple-view button either on the remote control or the front panel of the DVR.

You can choose to display the status bar and or toolbar, or to hide them by right-clicking on the screen. These three options alternate in sequence.

4.1.2 Status Bar

Located at the bottom of the screen, the Status Bar can be displayed by pressing the "Menu" button or right-clicking anywhere on the screen.



4.1.3 Login DVR

In live view, press the "**P**/**R**" button twice or double-click the right key of the mouse in live view to display the tool bar. The login window will appear if the password is enabled.

DEVICE ID USER NAME	(000000) Admin	
PASSWORD		

You can log in from the "LOGIN" window as shown in the adjacent

figure. Select a user name and password via numeric keyboard. You can access the main menu by pressing "

- 1. The default password for Admin is "888888" and the default password for user1 is "6666666". For your convenience and system safety, you can change password of Admin and add another username.
- 2. The Device ID is used for connecting the Internet Explorer interface. For detailed instructions please refer to Appendix 6.

4.1.4 Tool Bar

After logging in system, double-click the right-hand mouse button, and it will display the following toolbar.



The functions of the buttons in the toolbar are as follows:

System configuration

Search, playback, and backup of recorded files

• / **MANUAL REC/STOP MANUAL REC**: Click the? "MANUAL REC" button to start manual recording. Click "STOP MANUAL REC" or press the "stop" ("**■**") button to stop manual recording.

E KEYLOCK: If the password is enabled, clicking "KEYLOCK" will log the user out of the system and lock the DVR such that pressing keys or icons will have no effect on DVR activity until a user enters the password to disable the keylock.

AUTO SEQUENCE: Click "AUTO SEQUENCE" on the toolbar to enable auto- sequencing; this will display the channels with images in sequence: channel 1-channel 2-channel 3-channel 4-channel 1.....Channels without images will not be displayed. To interrupt auto- sequencing, press any button or click the mouse while in auto-sequence mode.

EZOOM: Click "EZOOM" to enter zoom mode, and then left-click and drag the cursor to select the area to be magnified. Right-click to exit zoom mode.

PIP 1*1: This feature displays the video from one channel in a small inset window, while another channel is displayed in full-screen view.

PIP 1*2: This feature displays two channels in small, inset windows, while another channel is displayed in full-screen view.

VGA/BNC SWITCH (video output switch): Press the "——" ten times when the toolbar is not visible or click "VGA/BNC SWITCH" on the toolbar, and this will switch the main menu between CVBS video output and VGA video output.

See the following subsections for a detailed description of each of these functionalities.

4.2 Tool Bar Menu Options

4.2.1 System Configuration

After pressing this button, a screen for configuring all system settings will appear. From this screen, system and network settings, and settings for recording, video playback, alarmscan be adjusted. Refer to Section 5. DVR for a detailed description of these settings.

Note: In order to for changes to sub-menu settings to take effect, it is necessary to press "**Solution**". Changes to the sub-menu settings will not be saved if you do not press "**Solution**" and exit the sub-menu immediately afterward. A special feature of this DVR is that an explanation of each menu item will be displayed automatically when the cursor is moved over it.

4.2.2 Manual Recording

There are three ways of recording live video/audio feed from your cameras: **manual recording**, **scheduled recording**, and **continuous recording**.

If scheduled recording is in conflict with manual recording, the manual recording will be processed first until stopped.

For a detailed description of scheduled recording, see Section 5.3.7 Recording Modes.

In order to manually record a video/audio feed, select the "Manual Record" button from the "Tools" menu. Alternatively, you can press the "REC" button on the remote control or the front panel of the DVR. Pressing "Manual Record" or "REC" again will stop the recording process.

4.2.3 Video Playback

To start video playback, first move the cursor to "▶" (the icon will be highlighted when selected) and left-click it to enter the settings menu; alternatively, press the "▶II" button to enter the settings menu.

There are two methods of searching for recordings:

Method 1: Playback by Date

Date input: Adjust the date and time to match the recording you are searching for: first, select "TIME" and press "Enter" to input numbers directly to set the year, month, and date; next, input the time in the next field, and click " \blacktriangleright ". A window that reads "CHOOSE PLAYBACK CHN" (see the following figure on the right) will automatically appear; in this window, choose channel of the video to be played, and click " \blacktriangleright ". If only one channel is selected, the video from that channel will be displayed in full-screen mode. If two or more channels are selected, the videos from the selected channels will be displayed simultaneously over four frames.

SUN MON TUE WED THJ FRI SAT 01 02 03 04 05 06 03 09:03:38-09:04:38 6 04 07 08 09 10 11 12 13 01 09:03:38-09:04:38 6 04 14 15 16 17 18 19 20 02:09:04:15-09:04:38 2 2M 21 22 23 24 25 26 27 04:09:04:27-09:04:38 1.1M 28 29 30 31	REC. SEARCH										
	sun 07 14	MON 01 08 15	TUE 02 09 16	WED 03 10 17	THU 04 11 18	FRI 05 12 19	SAT 06 13 20	CHN 03 09:0 01 09:0 02 09:0	TIME 03:38-09:04: 03:49-09:04: 04:15-09:04:	38 6.0M 38 4.8M 38 2.2M	
LOG U-DISK backup by time											



Instructions:

CHN: CH1, CH2, CH3, CH4 and ALL

MONTH: This option will show all the recordings in a given month. A green background on the calendar indicates normal recording; an orange indicates this file is a motion-detection recording, and a gray background indicates that there was no recording. Click any date in this frame to search by the recording status of that day, and the search results will be shown in the date frame.

DATE: This option will show all the recordings and their statuses on the selected day, and the recorded files in any period can be displayed by clicking on their corresponding period.

Method 2: playback by recording status:

Input the date, click "search" and the recording status on that date will be displayed.

Instructions:

 "FILE LIST": "CHN" shows which channel the file was recorded under, "TIME" shows the recording time, and "SIZE" is the size of this file (listed in MB). An orange indicates this file is a motion-detection recording file list, and a black list indicates this file is a normal recording file. Pressing the "SELECT" button will export the selected files to a USB storage device.



2. After moving the cursor up or down and selecting the files, left-click to enter the playback menu. It will play the video from a single channel in full-screen view.

- 3. If the "RECORD TIME" section is marked as "ON" under the "VIDEO DISPLAY" section, it will show the date/time that the video was recorded when playing back recorded file; if it is marked as "OFF", it will not display the time.
- During playback, press "▶▶】"to play the video in slow-motion; press "▶▶" to fast forward; press "◀◀" to rewind; press" ▮▶" to pause and run frame-by-frame playback; press "▶♥" to exit from playback and return to the former menu.
- 5. When the selected files finish, the screen will return to the file list menu.

LOG SEARCH

Move the cursor over the " \blacktriangleright " icon(the icon will be highlighted when selected) and left-click to enter the "REC. SEARCH" setting menu, or press the " \blacktriangleright / \parallel " button to enter the settings menu, move the cursor over the "LOG" option and press the "ENTER" button or left-click to access the Log Search option(as shown in the following figures).

At the top of the "Log Search" page are the following filters to facilitate locating the desired file(s):

"LOG TYPE": Choose from the following options: "All", "ALARM", and "OPERATION."

"STARTING TIME": Set the starting time of the log being searched for.

"END TIME": Set ending time of the log being searched for.

Click the "Search" button after setting the log time and type, and the system will display the selected log in the list. Click "**The selected**", "**The selec**

a USB drive.

STA	G TYPE RT TIME D TIME	ALL 03/02/2010 03/02/2010	
Туре	Info	Time Point	Record
Alarm	Loss	03/02/10 18:01:25	
Alarm	Motion	03/02/10 18:01:57	Yes
Alarm	Motion	03/02/10 18:02:00	Yes
Exec	Save	03/02/10 18:02:42	
Alarm	Motion	03/02/10 18:02:42	No
Alarm	Motion	03/02/10 00:00:00	Yes

Playback Control

In playback mode, users can view the playback control panel as well as the date and time of the file being played.

06/11/2012 10:50:13	06/11/2012 10:50:13
CH1	CH2
S	3 <u>PLAY</u>
255.572.1	205,5%,1
2012/05/14 11:38:27	2012/06/14 11:30:27
06/11/2012 10:50:13	06/11/2012 10:50:13
CHS	CH
3	3
	9

The following are the functions of and options for the items in the playback control panel:

Fast rewind: the available speeds are 2x, 4x, 8x, 16x, 32x, and 64x.

Slow forward: the available speeds are 1/2x, 1/4x and 1/8x.

Play

Pause/Frame-by-frame view

Fast forward: the available speeds are 2x, 4x, 8x, 16x, 32x, and 64x.

EZOOM: While the video is playing normally, click this icon to enter zoom mode, and then left-click and drag the cursor to select the area to be magnified. Right-click to exit.

K Close.

4.2.4 Video Backup

Backup of videos can be initiated from the same dialog window as the playback function.



You can use USB devices for backup by inserting a USB device into the USB 2.0 port before backing up files. The DVR also supports USB OTG (USB On-the-Go).

From the "FILE LISTING" menu, recording files can be selected using the direction keys. Press "Enter" to confirm a selection. A checkmark ($\sqrt{}$) will appear at the end of the filename after the selection has been made (pressing "Enter" again will cancel the selection, and the " $\sqrt{}$ " will disappear). Once the files have been selected, they can be exported by selecting "Backup."

Warning				
Progress		71%		
total 1 file				
Backuping, d	on't remove USB!!			

U-DISK Backup by Time

Note: In standard English, a "U-DISK" would be called a "USB storage device." (the term "U-DISK" referred to in this manual and the software for this DVR is a direct translation of the Chinese word for "USB drive"). Move the cursor to " \blacktriangleright " (the icon will be highlighted when selected) and left-click it to enter the "REC. SEARCH" settings menu or press the " \blacktriangleright / \parallel " button to enter the settings menu; select "U-DISK backup by time", and press the "ENTER" button or left-click to access the "U-DISK backup by time" search option(as shown in the following figure).



Note:

- 1. If the backup device being used does not have enough free space to save the file, a "not enough space" warning will appear.
- 2. The USB device can be removed immediately after the backup is complete.
- 3. If the system cannot recognize the connected devices, or if none are connected, a "No USB DISK!" warning message will appear.
- 4. If a USB drive is used to back up file, and the file format is AVI, the file can be played using Windows Media Player. If the file format is H.264, it can be played on home computers using "Hsplayer.exe."

With the current models, external media as USB flash drives, portable USB HDDs can be connected to DVRs.



The system only supports the FAT32 file system for USB flash drives and HDDs.

4.2.5 Playing Backed Up Videos on Home Computers

1) Copy the program "Hsplayer.exe" from the installation CD to the computer to be used. Double-click the



2) Click """ to open the video recorder in "*.avi" or "*.264" format. Select a file and click" Open" to play the file.

	ch0000000000007-100727-163837-164416-01p00001000000400.264 - ⊕ X
Open ? X	2010/07/27 16:39:22
Look jn: 🗀 2 💽 🗲 🗈 📸 📰 -	CH7
ch0000000000002-100613-103110 ch0000000000002-100614-092945 ch00000000000002-100614-092956 ch00000000000002-100614-093004	
File name: ch0000000000002-100613-103110	
Files of type: Media Files (*.avi *.mp4 *.asf *.264)	
Open as read-only	

3) Click "**D**" to capture a still picture. Then, click "**E**" to enter the "Settings" menu to set up the path for saving captured images. Click "Browser" to change the path for captured images. For example, select the folder "Desktop" and click "OK" to save the path.





4) Right-click to open the shortcut menu window.



Note: Files backed up on USB drives that those file formats are "AVI" can be played using Windows Media Player directly. Files backed up on USB drives that those file formats are "H.264" can be played using "Hsplayer.exe".

4.3 Channel Status Display

The following status icons will appear in the upper right corner of each channel frame.

- This indicates that the channel has detected motion while in motion-detection mode.
- This indicates that the channel is running in normal recording mode.

5. DVR

5.1 Menu Tree



5.1.1 Menu Options

In order to modify/adjust the system configuration, it is necessary to enter the "System" menu; to do this, click the "Settings" icon (

After clicking the "Settings" icon, a dialog box with settings for all of the systems and options available for the DVR will appear. The settings are divided into five subsections, each with its own tab in the sidebar on the left-hand side of the screen: "**Record**", "**Video**", "**System**", "**Network**", "**Alarm**". The following are detailed descriptions of these settings.

The "System" tab provides access to the general system settings for the DVR. The titles of the menu items are located on the left, and the corresponding adjustable or non-adjustable values for these items can be found in the fields to the right.

Users can:

- (a) Select the values from a list (by toggling through the preset data by clicking the arrows on each side of the field);
- (b) Input the required data after entering a window where custom data can be entered by pressing the ">>" button in some of the fields;

(c) Use the menu to become familiar with the existing non-adjustable settings.

When making selections from the fields or entering information into them using the remote control directional keys or the DVR front panel, as well as when positioning the cursor over them, a short description of the settings in question will appear at the bottom of the window.

Several tabs have options that are located in more than one window, and they can be found by navigating among the windows by clicking ">>>".

5.2 System

Move the cursor to select "SYSTEM" (the tab will be highlighted when selected) and press "Enter" to enter the "System" menu.



5.2.1 Language

Use this field to change the language of the DVR menu text and the on-screen display.

5.2.2 Video System

From this field, select the system output type that is consistent with camera input, i.e. PAL or NTSC. **Note**: The device will restart if the camera output type is changed.

5.2.3 Time Setup

Click "System settings", then "System", and then select "Time" to enter the "Time Setup" menu.

TII	ME SETUP	×
DATE FORMAT	MM/DD/YY	-
DATE	01/24/2011	
TIME FORMAT	24 HOUR	-
TIME	12:23:56	
DST	>>	
		~

DATE: Set the date using the numerical keypad.

DATE FORMAT: Press "Enter" to switch the date format, include YY-MM-DD, MM/DD/YY and DD-MM-YY.

TIME FORMAT: Press "Enter" to switch the time format from a 12-hour clock to a 24-hour clock and vice versa.

TIME: Set the system time using the numerical keypad.

DST: Daylight Savings Time. When "On" is selected in this field, DST is enabled. Users can set the starting time and ending time of DST.

DST (Da	ylight Savings) 🛛 🗙
DST	ON
START SUN.	JAN 🔽 1st WEEK 🔽
CLOCK	10
END SUN.	FEB 2nd WEEK
CLOCK	20
0	
Apply parameter	ssetting

Note: It is necessary to click "**Interview**" to save the changes after modifying the time and date; the changes will not be saved if you exit "Time setup" without clicking "**Interview**".

5.2.4 User Management

To enter the "User Management" menu, first click "System settings." Next, click "System", and then select "User Management."

USER MANAGEMENT			
DEVICE ID	KU440A		
PASSWORD	ON 💌		
ADD USERS	>>		
CHANGE PASSWORD	>>		
DELETE USER	>>		
SET PERMISSIONS			
REMOTE	>>		
View	>>		

USER NAME PASSWORD CONFIRM PASSWORD	ADD USERS	×
	~	

From this window, users can identify the device ID for the DVR and to change the password for the system. In the "Password" field, select "On" and click "**DEVICE ID**: In this field, to identify the device.

PASSWORD: In this field, a password for accessing the DVR system can be set or changed.

The following settings can only be set by the system administrator (who will be referred to throughout this manual as "the Administrator"; the username for the system administrator is "Admin"):

ADD USERS: Add new users. In this window, enter the new user's name and password in the corresponding fields, and then to confirm the password, enter it a second time in the "Confirm Password" field. The length of the password must not exceed 6 digits.

CHANGE PASSWORD: From this window, the Administrator can change the system's password. For security reasons, before a new password can be set, it is necessary to enter the original password.



DELETE USER: From this window (see the following figure to the left), the Administrator can delete users by selecting the username of the user account to be deleted and clicking "**Second**" to save the change.

SET PERMISSION: This allows the Administrator to give each user permission to access a unique set of DVR functions. That is, the Administrator can give a user access to one, some, or all of the following functions: Manual Recording, Playback/Backup, System Settings, Ezoom, PIP, Auto-sequencing, and Update/Reboot/Maintenance/Format/Default, and the set of functions that one user is allowed to access may include functions that are different from the set of functions that another user is allowed to access (see the following figure to the right).

DELETE USER	SET PERMISSIONS
No. USER NAME OPT No. USER NAME OPT	USERS Admin
1 user 1 5	AUTHORITY OPT AUTHORITY OPT
2 6	Auto sequence 🗹 Ezoom 🗸
3 7	Manual REC 🗹 PIP 🔽
4	Playback/Backup 🗹
	Setting 🔽
DELETE DELETE ALL	Update/Reboot/Maintenance/Format/Default
Select the user you want to delete	

REMOTE PERMISSION: This is a very important function for remote operation of the DVR. The Administrator can use this function to set each user's remote access permissions, such as access to Record/Capture, Playback/Download, Setting from a computer that is not on the local network (see the following figure to the left).

REMOTE PERMISSIONS	VIEWI	PERMISSIONS
NySERS Admin 🗸	Permissions	OFF
AUTHORITY OPT	USERS	Admin 🔽
Record/Capture	CHO1	Admin user1
Playback/Download 🔽	CH02 -	
Setting 🔽	сноз 🖌	
	CHO4 🔽	

VIEW PERMISSION: Another very important function for the Administrator is "View Permission", which allows the Administrator to set different viewing permissions for different users (see the preceding figure on the right). The Administrator can decide which channel(s) each user is allowed to view. The Administrator has permission to view all channels, and this permission cannot be modified.

After the password verification is set up (marked "ON") the Administrator can set up to seven user passwords, as well as an Administrator password. If the password function is enabled, it will be necessary to enter the password before logging in.

Note: Once the password has been enabled, it is necessary to log in to the system as "Admin" in order to manage users; The Administrator's username ("Admin") cannot be modified. The default password for Admin is "888888" and the default password for User1 is "6666666".

5.2.5 HDD (Hard Disk Drive)

First, click "System Settings", then click "System", and then select "HDD" to enter the "HDD Management" menu (see adjacent figure).

STATE: There are three available statuses: "OK", "un-format", and "No Disk." If the HDD cannot operate normally (including when the status is "unformatted" or "no HDD"), there will be a " icon displayed on video live view. If a new HDD is used with the DVR for the first time, please format the HDD.

TOTAL/FREE: This field indicates amount of space available and the amount of unused space available on the hard disk drive.

1			
	UK	1606/976	xxxHR
2	No Disk	0/0	OHR
٥١	/ERWRITE	AUTO	-
	FORMAT	HDD	USB
		1. Contraction of the local division of the	

FREE TIME: Indicates remaining recording time on the HDD.

OVERWRITE: Includes "CLOSE, AUTO, 1 HOUR, 3 HOURS, 1 DAY, 2 DAYS, 7 DAYS, 30 DAYS, and 90 DAYS". If a user chooses "CLOSE", the recording stops when the hard disk drive is full. Once the hard disk drive is full, it will not record again until "overwrite" is enabled. If a user chooses "AUTO", recording continues and overwrites previous recording when the hard disk drive is full. If a user chooses "2 DAYS", recording on the hard disk will continue for no more than two days. After two days, the recording will be automatically

overwritten. The "7 DAYS", "30 DAYS", and "90 DAYS" options are similar to the "2 DAYS" option, except that instead of recording for two days before the automatic overwrite takes place, recording will continue for 7 days, 30 days, and 90 days, respectively before being overwritten.

FORMAT HDD: Move the cursor to select the device to be formatted, and click "HDD" to begin formatting.

FORMAT USB: This enables users to format the USB device connected to the DVR.

5.2.6 Maintenance

To enter the "Maintenance" menu, click "System Settings", then click "System", and select "Maintenance."

SYSTEM UPDATE: Create a new root directory called "dvrupgrade" on a USB flash drive, copy the update file to it, and then insert it into USB port of the DVR. Press "Enter" to upgrade the firmware and it will display the process of the system upgrade.

M	A INTENANCE
SYSTEM UPDATE LOAD DEFAULT REBOOT POWER OFF	
AUTO MAINTAIN	OFF
🚺 Apply paramete	ors setting

The system upgrade will require at least two minutes;

during this time, do not remove the USB drive or turn the DVR off. After completing the upgrade, the DVR will restart.

LOAD DEFAULT: Selecting this option restores all the settings to the original factory settings.

REBOOT: Use this function to restart the device.

POWER OFF: Use this function to turn off the device.

AUTO MAINTAIN: When "AUTO MAINTAIN" is on, users can set a specific time for the DVR to restart. The system will restart automatically according to the parameter(s) chosen.

5.2.8 Information

Click "System Settings", then click "System", and select "Information" to enter the "System Info" menu. The information included accessible through this interface includes: the device type, the software version, the release date, import parameters, and export parameters. It is necessary to export parameter to a USB drive before importing any parameter from the USB drive; otherwise, it will not be possible to successfully import the parameter.

SOFTWARE VER	VA2, 3, 0
	VAZ. 5. 0
RELEASE DATE	2011-12-20
IMPORT PARAMETER	>>
EXPORT PARAMETER	<mark>≫</mark>

5.3 Record

Move the cursor over the "RECORD" tab (the icon will be highlighted when selected). Press "Enter" to enter the "Record" settings interface. The direction keys and cursor can be used to change the settings.

5.3.1 Record Channel

After clicking the "Channel" tab, users can modify the settings of the camera connected to the selected channel. Alternatively, users can make the same change (or set of

	RECORD		x
	CHANNEL	1	
SYSTEM	RECORD	ENABLE	
	BITRATE	GOOD	
	RESOLUTION	CIF	
RECORD	FRAMERATE	25	
1 00	PACKTIME	60 MIN	
VIDEO	RECORD MODE	SCHEDULE	
RE TWORK		>	
alarm	🚺 Setup record :	schedule	

changes) to the settings of all of the cameras at once. To apply the change(s) to all available channels, first select "**All**" from the "Channel" field by pressing the arrow buttons; the options include CH1, CH2, CH3, CH4 and ALL. Then make the desired changes and save them before exiting the menu.

5.3.2 Record

"ENABLE" indicates that the channel is enabled for recording.

5.3.3 Recording Bit-rate

There are three options: "GOOD", "NORMAL", and "LOW", corresponding to "HIGHEST", "HIGH", and "NORMAL" data stream standards, respectively. The recording bit rate of each channel can be adjusted independently.

5.3.4 Record Resolution

This indicates the setup resolution and code rate for recording. There are three options: D1, HD1, and CIF resolutions. The recording resolution of each channel can be adjusted independently.

5.3.5 Recording Frame Rate

In this window, users can choose the recording frame rate (frames per second) for the current channel. The higher the recording frame rate, the more natural the movement seen in playback mode will seem. Select a recording frame rate depending on the how carefully the activity in the video needs to be monitored. It is possible to adjust each channel frame rate independently.

For the PAL video output format, the system's default resolution is CIF, and the system's default frame rate is **25** frames per second with each channel; this means the system will record 100 frames per second with all channels running (if there are four channels that are all recording). Users can set the frame rate from **1** to **25** frames per second for each channel. The maximum value of total frames recorded per second with all channels is **200** frames with CIF resolution.

For the NTSC video output format, the system's default resolution is CIF and the system's default frame rate is **30** frames per second for each channel, which means the system will record 120 frames per second with all channels running (if there are four channels that are all recording). Users can set the frame rate from **1** to **30** frames per second for each channel. The maximum value of total frames recorded per second with all channels is **240** frames with CIF resolution.

5.3.6 Recording Pack Time

There are four options: 15 minutes, 30 minutes, 45 minutes, and 60 minutes. It will pack as the mode selected when alarm recording is disabled.

5.3.7 Recording Modes

There are two recording modes: "ALWAYS" and "SCHEDULE".

ALWAYS: In this mode, the DVR will automatically begin recording when it is turned on.

SCHEDULE: This setup function allows users to create a schedule for recording tasks throughout the week, so that only certain selected events are actually recorded on the HDD. For example, users can set up the system to record non-stop only during the business hours, and to run motion-detection alarm-triggered recording with certain hours (which means no recording will take place unless a motion-detection event happens) Additionally, the recording schedule can include specific no-record time slots for when users are usually in the office (or

			RECORD S	CHEDULE S	SETUP	×
A.		NNEL ROM	ALL V Mon. V	ТО	A -	COPY
		00	06	12	18	23
	MON.			ي الا بي عام ا	ه بدر بدر ها بدر بدر	
	TUE.				ها اها زيها دي زيها زيها اعد	
	WED.			د د د د د	و بدر به هر به به ه	
	THU.			ه د به ه ه	ه کا تھا کا کا کا ک	
	FRI.				د در به به بد بد به	
	SAT.			الله الله إلى إلى	ها الترز الترز الترز الترز الترز	
	SUN.			ي الا بي الا بي	و کر او کر کر کر	
		MD	NORMAL	NO R	ECORD	

other location where the camera is installed) alone at very early hours of weekday mornings. The schedule can be easily customized to the user's needs.

Note: manual recording overrides all other recording settings and will take place until a user stops the recording or changes the recording mode.

CHANNEL: Users can select all channels or a single channel.

There are three modes for recording: "MD", "NORMAL", "NO RECORD", Different colors are used to identify the different recording modes: Orange refers to "MD record", green refers to "normal record", gray refers to "no record".

To set up weekly schedules, click on the box of the recording status to be used (MD, Normal, or No record) and then click on each box in the schedule timeline that this recording status is to be applied to. See the "Record Schedule Setup" screenshot in the preceding figure. Each gray block represents one hour on a 24-hour clock, i.e. the first block(next to each day of the week) represents the hour from midnight-01:00 AM and the last block (below the "23" on the right hand side of the screen) represents the hour from 11:00 PM-midnight. After setting the schedule, click the "

Alternatively, left-click to drag the frames of the boxes in the schedule timeline where you want to.

Another way to set up schedules is to create a schedule for one day of the week, and then use the "FROM" and "TO" dropdown menus and COPY button settings to apply the setting from one day to another day or a series of up to all seven days of the week. To do this, first create a schedule for one day. Then, from the "FROM" dropdown menu, select the first day of the week that the schedule should apply to. Next, from the "TO" dropdown menu, select the last day of the week that the schedule should apply to, and click "COPY". For

example, to set a schedule where the DVR uses MD recording from 2:00 AM until 1:00 PM, and normal recording from 1:00 PM until 10:00 PM on Tuesdays, Wednesdays, Thursdays, and Fridays, the process would be as follows:

- Click the orange box at the bottom of the screen to select "MD record". Then, in the row of gray boxes next to the "TUE". box, click all of boxes from the third box from the left to the box under the "12" at the top of the timeline(the box directly under the "12" should be selected) in order to select the hours between 2:00 AM and 1:00 PM.
- 2. Click the green box at the bottom of the screen to select "normal record." Then click all of the boxes in the same row from the box immediately to the right of the box under the "12" at the top of the timeline to the third box from the right to select the hours from 1:00 PM-10:00 PM.
- 3. The preceding steps set a schedule for Tuesday, which can now be copied to Wednesday, Thursday, and Friday. To copy it, from the "FROM" field, first select "Tues".
- 4. In the "TO" field, select "Fri." and then click "COPY."
- 5. To save this schedule, click the **"____**" button at the bottom of the screen.

Regardless of whether the schedule is set for each day individually or by copying one schedule to multiple days of the week, it is necessary activate it by clicking the "**schedule**" button. Without clicking the "**schedule**" the schedule will not take effect.



When the alarm recording mode is selected, in order for the actual recording to take place, it is necessary to set the motion detection sensitivity and area. Refer to Section **5.6.5 Motion Detection** for detailed instructions. When alarm recording is selected, make sure to set the alarm trigger settings beforehand.

Scroll to and press "Enter" to restore default settings.

Scroll to **_____** and press "Enter" to save new settings.

5.4 Video

Move the cursor over the "VIDEO" tab (the tab will be highlighted when selected). Press "Enter" to enter the video settings menu. The direction keys and cursor can be used to change the settings.

5.4.1 Channel

Use this field to select a channel to set up, or to modify its settings.

	VIDEO		X
	CHANNEL	1	-
SYSTEM	NAME	CH1	
	POSITION	U-L	
69	LIVE	ON	-
RECORD	COLOR	>>	
-			
VIDEO	RECORD TIME	ON	-
16	MARGIN	>>	
NE TWORK	VIDEO SETUP	>>	
🍯 ALARM			

5.4.2 Name

Users can modify the name of the camera for each channel. Note that the name of the camera for each channel must not exceed nine Romanized letters or four Chinese characters.

5.4.3 Position

Naming the location is optional. By pressing "Enter", users can switch between "U-L", "D-L", "U-R", "D-R", and "OFF".

5.4.4 Live

When this field is set to "ON", the selected channel can be viewed in live view mode; when "OFF" has been selected, it cannot.

5.4.5 Color

To enter the "Color Setup" menu, click "System Settings", then click "Video" and select "Color." From this menu, the video color attributes can be adjusted for the best image quality. By default, the values are set at 31, as this is the median value. Make adjustments to the hue, brightness, contrast, and/or saturation as appropriate depending on the actual conditions at the location where the camera is installed.

COLO	r setup	×
HUE BRIGHTNESS CONTRAST SATURATION		- 31 - 31 - 31 - 31
O The brightn	ess tune	
	-	

Press "▶" or "◄" or click the vertical bar on the slide bar and drag the cursor to the left or right along the slide bar to set color attributes. Clicking the "DEFAULT" button will reset the color attributes to their original values. Once the color attributes have been set, press "

5.4.6 Record Time

From this field, users can decide which information will be recorded onto the video as the OSD (On-Screen Display) string.

5.4.7 Video Margin

To enter the "Video Margin" menu, click "System Settings", then click "Video", and select "Margin". The entire video screen can be moved up, down, to the left, and to the right using this option.

5.4.8 Video Setup

To enter the "Video Setup" menu, click "System Settings", then click "Video", and select "Video Setup."

VGA resolution: The options are 1024x768(VGA) and 1280x1024 (VGA)

Sequential Time (SEC): This refers to the sequencing time when auto-sequence is enabled. Values can be set from 1-300 seconds.

Channel: From this field, select one channel whose area coverage will be set up in the following field (Area Covered).

Area Covered: From this field, users can define areas for privacy masking. This device can provide up to four privacy masking areas for each channel.



Note: The device will automatically restart when the VGA resolution is modified.

5.5 Network

To access the "Network" menu, move the cursor over the "NETWORK" tab (the tab will be highlighted when selected), and press "Enter." Users can use this menu to set up the network, DDNS, email and mobile phone access to video recorded by the DVR, and an IP address.

5.5.1 Network

After selecting an Internet connection setting - such as static, DHCP, or PPPOE, users can access the DVR remotely via the Internet.



VIDEO SETUP		×
VGA SEQUENTIAL TIME	1024x768 003	-
CHANNEL AREA COVERED	1	
Apply parameters :	setting	

NETWORK SETUP		
ТҮРЕ	STATIC	¢
MEDIA PORT	09001	
WEB PORT	08091	
SETUP PORT	08001	
MAC ADDRESS	00-11-2E-33-44-56	
IP ADDRESS	192. 192. 100. 228	
SUBNET MASK	255. 255. 255. 000	
GATEWAY	192. 168. 001. 001	
DNS	192. 168. 001. 001	
Apply parameter	s setting	

1) If static allocation has been selected, it is necessary to set up an IP address, a subnet mask, a gateway, and a Web port.

MEDIA PORT: Transfers video data between the client and the device. The default number is "9000"

WEB PORT: Sets up a Web browser port via HTTP.

The default number for the Web port is "8090", but the specific number is model-dependent.

SETUP PORT: The default number is "8000".

DNS: After pressing "Enter", input numbers for the subnet mask in this field.

IP ADDRESS: After pressing "Enter", enter the IP address in this field.

SUBNET MASK: After pressing "Enter", input numbers for the subnet mask.

GATEWAY: After pressing "Enter", enter numbers for the default gateway.

2) If PPPOE has been selected, it is necessary to enter the PPPOE username and password provided by the ISP.

Click "**Second**" and the system will automatically reboot. After rebooting, the device will save the username and password, and the IP address will be automatically configured as a dynamic IP address in the Wide Area Network (WAN).

 If DHCP is selected, and save it, the server will allocate a DVR IP address automatically. The DVR will automatically connect with the server. It will allocate an IP address when the connection is stable, and this address will be displayed on the interface.

5.5.2 SUB-STREAM

Click "Sub-stream" to enter the "Sub-stream Setup" menu. **Frame**: There are 21 options: 5-25 frames
Channel	1	-
Frame	5	
Bit rate	128K	
Stream control	VBR	-

Bit rate: There are 6 options: 64K, 128K, 192K, 256K, 384K, and 512K.

Stream control: There are two options: VBR and CBR.

5.5.3 DDNS Setup

Move the cursor to "DDNS SETUP" and press "Enter" to enter the DDNS setup menu.

	DONS SETUP	X
DONS	ON	
SERVER	3322	•
HOST NAME	zxm2010. 3322. or g	
USER NAME	SZZXW	
PASSWORD		
Set DDNS		
		~

DDNS: The two options are "ON" and "OFF." If there is a DDNS server, select "ON".

SERVER: There are two options: "3322" and "dyndns".

HOST NAME: In this field, enter the name of the host server.

USER NAME: In this field, enter the username.

PASSWORD: In this field, enter the password.

5.5.4 Email Setup

Click "Email Setup" to enter into its sub-menu.

In the "Email setup" mode, refer to its parameter setup shown in the adjacent figure when setting email alarm to "on".



SSL: SSL is a security link transport protocol that can be used to encrypt information communicated over the Internet (including email) to prevent hackers from accessing the email communication or other information of users on a network, such as passwords.

Interval: This indicates the interval for sending email include; the options are: 5s, 10s, 30s, 1 minute and 3 minutes.

SMTP Port: This refers to the port of the SMTP server. Generally, the SMTP port number is "25", but there are exceptions; for example, the SMTP port number of Gmail's server is "465".

SMTP: This indicates server address used by the DVR user.

Sender: In this field, enter the sender's email address. The email address should be consistent with the server being used. That is, if the sender's email address is <u>abc@gmail.com</u>, the corresponding server should be "smtp.gmail.com".

Receiver: In this field, enter the receiver's email address (the email address being used to receive images transmitted from the DVR's motion-detection alarm). Clear the images received as soon as possible to avoid exceeding the email account's storage capacity.

For detailed SMTP protocols settings, refer to the preceding figure.

5.5.5 Mobile Setup

Move the cursor over "MOBLE SETUP" (the tab will be highlighted when selected), and press "Enter" to enter the mobile settings menu.



SERVER PORT: Mobile monitoring port. In this field, enter the relevant mobile port and press "**SERVER PORT**: Mobile monitoring port. In this field, enter the relevant mobile port and press "**SERVER PORT**" to confirm. The range for server ports is between "1024" and "65535"; The default is "10510".

NETWORK TYPE: From this field, select from different mobile networks, including 3G, 2.5G, 2.75G and WiFi; press **"_____**" to save a new network.

Explanation: Make sure to connect the DVR to the Internet before setting the DVR port number, and make sure the server port is not equal to network menus.

Note: It is only possible to view one channel at one time when viewing DVR videos from some mobile phone. The speed of the display depends on the speed of the Internet connection.

5.5.6 IP Access Setup

Move the cursor over "IP access setup" (the icon will be highlighted when selected), and press "Enter" to enter the IP access setup menu.

IP access: The options for IP access settings are: "disable", "forbidden", and "allow access." Press "**to** confirm a setting.





5.5.7 ESMS Settings

Move the cursor to "SMS Setting" (the icon will be highlighted when selected) and press "Enter" to access the SMS settings menu.

Interval: From this field, choose the interval of time for sending alarm ESMS messages.

User Name, Sensor PWD: Open an Internet browser, and in the address field, enter <u>http://www.textmagic.com;</u> follow the instructions on the website to register the DVR and the phone



number being used for SMS services. Remember the username and sensor password ("sensor PWD") chosen. The username and sensor password used here will be the same as in the ones registered on the website.

Phone: Enter a phone number in this field in order to receive SMS messages when an alarm is triggered.

5.5.8 FTP Settings

Move the cursor to "FTP Setting" (the tab will be highlighted when selected) and press "Enter" to access the FTP settings menu.

Port, User name, Password: Install the FTP server first, then register, and remember the port, username, and password. Entered the port, username, and password used here will be the same as the ones entered on the server.



Host name: The IP address of the computer on which the server is installed.

5.5.9 Other Settings

Move the cursor to "Other Settings" (the icon will be highlighted when selected) and press "Enter" to access the "Other Settings" menu.

Note: The Auto ID is used for connecting the DVR to an Internet browser interface. For detailed instructions, refer to Appendix 6.

	Other settings	×			
UPnP	CLOSE	4			
AutoID	CLOSE	-			
Apply parameters setting					

5.6 Alarm

Move the cursor to "ALARM" (the icon will be highlighted when selected) and press "Enter" to access the alarm settings menu.

5.6.1 DURATION

This function sets the duration of the recording time after alarm recording is activated.

The options are: "30s", "1 min", "2 min", and 5 min".

5.6.2 BUZZER

This function sets the length of time that the buzzer will sound when the alarm is triggered. Options include: "OFF", "5 seconds", "10 seconds", "30 seconds", and "60 seconds." If the "OFF" setting is selected, the buzzer will not be triggered by any activity.



5.6.3 PRERECORD

This sets the duration of the recording time before the alarm is activated. The options for prerecording time are: "OFF" and "5 seconds."

5.6.4 EXCEPTION ALARM

To access the "Exception Alarm" page, in the toolbar, first click "System Settings", and then click "Alarm." Next select "Exception Alarm" and click ">>" and a dialog window where the buzzer for HDD Full, HDD Loss and Video Loss can be set will appear.

HDD FULL: The buzzer alarm can be set when there is little space left on the HDD for new recordings. Options include: "OFF", "1G", "5G", "10G", "1 hour", "5 hours", "10 hours", and "20 hours."

HDD LOSS: When the "ON" setting has been selected for HDD Loss, the relevant alarm will be triggered if there is no HDD connected to the DVR and a "**o**" icon will be displayed in the lower left corner of channel 1 while in live view mode.

EXCEPTION ALARM					
HDD FULL HDD LOSS VIDEO LOSS	BUZZER				
• Apply parameters setting					

VIDEO LOSS: When "ON" setting has been selected for Video Loss, the relevant alarm will be triggered when one or more channels lose video input.

Note: If the BUZZER mentioned in Section 5.6.2 is in the "OFF" setting, they will not be triggered by any kind of activity.

5.6.5 Motion Detection

To access the "Motion Detection" menu, in the toolbar, first click "System Settings", then click Alarm." Next, select "Motion" and click ">>", and the dialog window where Sensitivity, MD Detection, Output, Record, Buzzer, Prerecord, and email settings can be set will appear.

CHANNEL: In this field, select the channel to be set up. SWITCH: Each channel has a corresponding channel switch; press "Enter" to turn the motion detection for each channel on or off.



SENSITIVITY: Each channel has a specific sensitivity setting; there are eight levels, with "1" being the highest level of sensitivity; press "Enter" to adjust the level.

MD AREA: Sometimes, it is necessary to have some regions in the camera's coverage area enabled with the motion detection feature, while other regions in the same coverage area do not require this functionality. This may be handy when, for example, the camera covers the road and an adjoining area. While it would be useful to have the motion detection enabled on the area near the entrance to a building, it would most likely not be helpful to see it triggered every time a car or truck passes by on the nearby road. Each channel has a specific regional motion detecting setting.

To enter the "Regional Setting" menu, move the cursor to "setting" and then press "Enter." When viewing the selected channel's coverage area using the MD Area option, the blue area is where motion detection is activated, and transparent block is the area where motion detection is not activated.



Press the direction keys on the remote control to move the cursor along the small pane: the position of cursor is indicated by a green frame. Press "Enter" to select or cancel motion detection in this

small pane. When the setup is finished, press "(())" or right click to return to the MD setup menu and click "()" to save the settings.

Note:

Mouse operation: Left-click and drag the frame to set up the region for motion detection.

RECORD: " $\sqrt{}$ " indicates that the selected channel will record if it has been triggered by motion.

BUZZER: " $\sqrt{}$ " indicates that the buzzer will sound if it has been triggered by motion.

Prerecord: " $\sqrt{}$ " indicates that the relevant channel will prerecord for 5 seconds if it has been triggered by motion.

Email/FTP: " $\sqrt{}$ " indicates that a picture of selected channel will be sent to the pre-registered email address and FTP if an alarm has been triggered by motion.

ESMS: " $\sqrt{}$ "indicates that an SMS message will be sent to the pre-registered phone number when a motion-detection alarm has been triggered.

6. Web Browser Operation

6.1 Feature

Install the software through the Internet browser of OS to conveniently operate the network from a remote location. This DVR supports C/S, B/S, and access in LAN and WAN. It also supports IP and domain name visiting.

IMPORTANT! SOFTWARE RECOMMENDATIONS:

To ensure reliable remote viewing of DVR footage, it is highly recommended that users have either Windows XP or Windows Vista installed on their computers, and that they use either Internet Explorer 6.0, Internet Explorer 7.0, Mozilla Firefox, or Google Chrome as their Internet browser.(In the appendix, there is an explanation of how to access the DVR using Firefox or Google Chrome.)

6.2 Network Security Setting

Prior to setting up remote access, set the network security level by following the following instructions:

- (1) Open the Internet Explorer browser and click the "Tools" tab located in the bar at the top of the browser; from the dropdown menu, select "Internet Options".
- (2) Click the "Security" tab in the dialogue box.



(3) Click "Custom level" (at the bottom of the dialogue box) to set the security level.



Set the appropriate settings for the ActiveX controls and plug-ins. Find the following controls in the "Security Settings" box and select the "Enable" option for each of them. This is an extremely important step.

- $\sqrt{\text{Automatic prompting for ActiveX controls}}$
- $\sqrt{\text{Binary}}$ and script behaviors
- $\sqrt{}$ Initialize and script ActiveX controls not marked as safe for scripting.
- $\sqrt{\text{Download signed ActiveX controls}}$
- $\sqrt{\text{Download unsigned ActiveX controls}}$
- $\sqrt{\text{Run} \text{ActiveX} \text{controls and plug-ins}}$
- $\sqrt{\text{Script ActiveX controls safe for scripting.}}$

Prompt: Before setting up remote access, turn off the firewall and any anti-virus software currently running on the computer.

6.3 Connection Settings

Remote access to the hard disk drive is carried out over the Internet. In the local area network, the IP address of the client-side computer must be in the same network segment that the IP address of the hard disk drive. In the wide area network, the only requirement is that the two sides can visit the public network and connect to the Internet through the IP address or the dynamic domain name. The following will mainly focus on connecting and setting up the local area network.

Step 1: Right-click on "Network Neighborhood" and click "Properties" in the menu to open the "Network Connections" menu. Alternatively, if the operating system being used does not have a "Network Neighborhood" icon, enter the Control Panel found in the "Start" menu; then, click "Network and Internet", and select "Network and Sharing Center." On the "Network and Sharing Center" page, there should be a "Network" section; in that section, there should be a "View Status" link next to a listing that reads "Connection: Local Area Connection." Click the "View Status" link. A small "Local Area Connection Status" window will appear; at the bottom of this screen, click "Properties", and if prompted to give permission to continue, click "Yes."

Step 2: Double-click to open "Local Area Connection" from the "Network Connections" menu.

📥 Local Area	Connection Status	? 🛛
General Supp	ort	
Connection		
Status:		Connected
Duration:		00:44:11
Speed:		100.0 Mbps
Activity		
	Sent — 🛐	- Received
Packets:	30,949	616,300
Properties	Disable	

Step 3: Click "Properties" in the lower-left corner of the window (see preceding figure).

eneral	Authenticati	on A	dvanced	ł		
Connec	st using:					
H P	Realtek RTL8	139/8	10x Fam	ly Fast E		<u>C</u> onfigure
This c <u>o</u>	nnection use:	s the f	ollowing i	tems:		
	Client for Mi	concernant data		and the second second		
	File and Prir QoS Packe			Microsoft	Netwo	irks
	Internet Pro					
10.17 4.20						
Ĩ	<u>n</u> stall		<u>U</u> nins	all		Properties
Desc	ription				-	
Allov	vs your compu ork.	uter to	access i	esources	on a M	icrosoft
Isha	w icon in notil	licatio	o area wi		oted	
	iy me when th					connectivity
	· · · · · · · · · · · · · · · · · · ·					

Step 4: Double-click "Internet protocol (TCP/IP)" from the "This connection uses the following items" list in the center of the window(see preceding figure).

Internet Protocol (TCP/IP) Proper	rties 🛛 🕐 🔀
General	
You can get IP settings assigned autom this capability. Otherwise, you need to a the appropriate IP settings.	
Obtain an IP address automatically	,
• Use the following IP address:	
IP address:	192.168.0.123
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
Obtain DNS server address autom	atically
• Use the following DNS server add	resses:
Preferred DNS server:	· · · ·
Alternate DNS server:	
	Advanced
	OK Cancel

Step 5: Examine the IP address, subnet mask, and default gateway on the PC.

Step 6: Set the corresponding IP address, subnet mask, and default gateway on the DVR (for detailed instructions, refer to Section 5.5.5 Network Setup). If the subnet mask and default gateway on DVR are the same as those of the computer, then the IP address is most likely in the same network segment. However, they must not be exactly the same as the ones on the DVR, as this will cause IP address conflicts. Taking the preceding figure as an example, the IP address should be: 192.168.0.X, where X cannot be 40 or 1 (including other IP addresses currently being used), and cannot exceed 255, as the subnet mask is 255.255.255.0, and the gateway is 192.168.0.1.

6.4 Control Download and Installation

After the aforementioned settings have been adjusted and saved, open the Internet browser, enter <u>http://192.168.1.X</u>:P (192.168.1.X is the set IP address of the DVR, P is the WEB port) and confirm. And the network will download and install the control automatically.

After connecting to the internet, Internet Explorer (or other Internet browser being used) will automatically download the file to the computer as follows.



The system will automatically enter the GUI as follows.



Select the English interface from the upper left side. Enter the correct password if a password has been enabled. The password is the same as the one set in DVR.

USER ID: In this field, enter a username. The Administrator has all permissions, but other users have limited permissions. The Administrator can change each user's remote permissions from the User Management menu.

PASSWORD: The password is as the same as the password for the DVR.

NETWORK: LAN/WAN

Note: If the device is connected to the WAN, the IP address should be a public IP address.

6.5 Operation Interface

Options in the main interface include "LIVE", "REPLAY", "REMOTE SETTING", "LOCAL SETTING", and "LOGOUT." Click any option to access it.

6.5.1 Live

After login successfully, automatically enter the live interface as follows. Click to close the live monitor.

WEBSERVER	LIVE REP	PLAY REMOTE SETTING	LOCAL SETTING	LOGOUT	V 2.3.0.0	
06/11/2012 12:15:	15	96/11/2012	2 12:15:45		PLAY CONTROL	
ан З Ъ		анг З			11 10	
					Ŗ	
236,5/2.1 2012/06/14 13:04:5	8	235.5/2.1 2012/05/14 13	5:04:53			
06/11/2012 12:15:4	15	06/11/2012 CH4	2 12:15:45			
3		3			_	
285.5/2.1 2012/05/14 13:04:5	13	235.5/2.1 2012/05/14 13	9:04:53			

6.5.2 Controls

To use the controls, move the cursor over the icons, which will become highlighted when selected.

/ III Connect all windows or disconnect all windows.

Capture images which can be saved in a local disk, (the default system save path is "c:\DVR\BACKUP\".)

Quick-start to record video on all channels. The upper-left corner of each channel has a normal recording video symbol **R**.

Click these icons to switch between the single-screen (), quad-(), nine-(), 16-split ()) and full-screen ()) options.

6.5.3 Other Operations

- 1. Select one channel from the preview screen (the color of the selected channel's frame will change to blue), and double-click it for a full-screen display of the selected channel.
- 2. Click one channel from the preview screen, and then right-click it to open the shortcut menu.

CONNECT
DISCONNECT
CONNECT ALL DISCONNECT ALL
START RECORD

Users can play, start, and stop this channel's recording using the shortcut menu.

3. Right-click the screen while in live view mode, and click "connect all" or "disconnect all" to quickly open or close all windows.

6.5.4 Replay

Click "REPLAY" to enter the playback interface.



To search for a recording by date, click calendar in the upper-right corner, and use " To set the month of the video being searched for; click "REFRESH" (located just below the calendar) to display the recording information of current month.

<	l	Jur	1e, 20	010		>	
Sun	Mon					Sat	
30		1	2	3	4	5	
6	7	8	9	10	11	12	
13	14	15	16	17	18	19	
20	21	22	23	24	25	26	
27	28	29	30			3	
4						10	

The highlighted date indicates the recording date of the video being played. Click on a date to view the recording file list for that day. For example, the preceding figure shows that there are videos on file that were recorded on June 12th and 13th (indicated by the numbers being in bold print), and is the recording file list that is currently open is the list of videos recorded on June 12th (indicated by the darker background and the "12" in white text).

Another way to find a video is to select the channel and type of the file in question from the file list below the calendar. After selecting the channel and type from their respective dropdown menus at the top of the file list, click "SEARCH" and the results will be displayed in a list like the one in the following figure.

FILE LR	sт		
ALL CHAN	IN. 💽 (ALL '	TYPE 🔽	SEARCH
	TIME	СН	SIZE
12:00:	:00-12:47:54	1	539.1M
🧟 12:00:	00-12:47:54	2	541.1M
🧔 12:00:	:00-12:47:54	3	533.4M
🥝 12:47:	55-13:10:01	1	249.3M
🥝 12:47:	:55-13:10:01	2	249.4M
🧐 12:47:	55-13:10:01	3	244.1M
🧔 13:10:	01-13:47:55	1	430.1M
🧔 13:10:	01-13:47:55	2	427.1M
🧔 13:10:	01-13:47:55	3	419.0M
🧔 13:47:	55-14:29:23	1	461.3M
13:47:	55-14:29:23	2	469.1M
🥝 13:47:	:55-14:29:24	3	466.2M
🥝 14:29:	23-14:47:55	2	209.4M
🥝 14:29:	24-14:47:55	1	203.0M
🥝 14:29:	24-14:47:55	3	209.2M
🥝 14:47:	55-15:18:08	1	334.1M 🚽
	DOWNLOAD	PLAY	

Double-click one of the listed recorded videos or select one of the listed recorded videos and then click "PLAY" to begin playback. The file icon will change to .

Using this button, users can download files to their computers and save them to a HDD for backup or later viewing. The downloaded file format is AVI.

6.5.5 Toolbar Guide



6.5.6 Remote Settings

Click "Remote Setting" to enter the "Remote Settings" setup menu. This interface includes settings for recording, alarm, networking, advanced settings, and system information, which can all be modified remotely through an Internet browser once users have been provided the necessary accounts, passwords, and permission to access the setting(s) in question.

A. Encoding Settings

In the sidebar on the left, click "Encode Setting", then select "Video Parameter" to enter the video parameter interface. From this page, users can adjust recording parameters (resolution, quality, and frame rate) for each channel.

VIDEO PARAMETER				X
- ENCODE SETTING - L-VIDEO PARAMETER - RECORD SETTING - ALARM SETTING - ADVANCED SETTING - ADVANCED SETTING - SYSTEM INFO - REMOTE UPGRADE - USERMANAGER - USERMANAGER	CHANNEL1 V CIF V 25 V	QUALITY	BEST	2
	6 💌 CBR 👻	QUALITY	256k	⊻
	COPY	NETTINGS TO	DEFAULT SET	UP REFRESH

B. Recording Settings

Click "Record Setting" to enter the recording settings menu. From this page, users can enable or disable recording for each channel, set recording schedules, and adjust specific recording parameters, i.e. setting the pack time, and setting recording modes.

RECORD SETTING																									
■·ENCODE SETTING ↓ VIDEO PARAMETER - RECORD SETTING		RE	ЕС СТ	RL P	ARA	MET	ER																_		
ALARM SETTING ■-NETWORK SETTING -ADVANCED SETTING -SYSTEM INFO -REMOTE UPGRADE -REMOTE UPGRADE -USERMANAGER			NIT OI EC MC		ж	60 Time	ER RE	CORD		~	MIN	iuti													
			HANN EC EN			CH/	ANNEL	.1		v															
			MERI																						
		RE	EC TY	PE		MO	TIO	N	● N	ORI	MAL									_		0	NO		
	_	0	1 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	S M						-	-		-															
	T																								
	W																								
	T																								
	FRI S							-		-															
		cc)PY	SUN	1	T	O E	VERY	DAY	~	cc)PY													
										OPY S	CTTIM	06 T(
										orra		6 5 H	·		1	D	FAU			SET	UP		REF	RESH	

C. Alarm Settings

Device Alarm Settings: From the sidebar on the left, click "Alarm Setting", then select "Device Alarm" to enter the "Device Alarm" setup interface. From this interface, users can set alarm event types; that is, they can decide which types of events will trigger an alarm by selecting event types from the "Event Type" dropdown menu. They can also turn the buzzer on or off from this page.

DEFACE ALARM - ENCODE SETTING - RECORD SETTING - ALARM SETTING - NETWORK SETTING - ADVANCED SETTING - REWORE OUSSER - REWORE UPGRADE - USERMANAGER - USERMANAGER - USERMANAGER

Channel alarm settings: From the sidebar on the left, click "Alarm Setting", then select "Channel Alarm" to enter the "Channel Alarm" setup interface. From this interface, users can set motion-detection alarms, define motion-detection privacy masking areas, motion sensitivity, buzzer time, prerecording time, and post-recording time.

CHANNEL ALARI	
- ENCODE SETTING - VIDEO PARAMETER - RECORD SETTING - ALARM SETTING - DEVICE ALARM - CHANNEL ALARM - CHANNEL ALARM - NETWORK SETTING - ADVANCED SETTING - SYSTEM INFO - REMOTE UPGRADE	CHANNEL CHANNEL1 EVENT TYPE MOTION ENABLE OFF MOTION SENSITIVITY 2 MD AREA
d - USERMANAGER	OUTPUT POST REC TIME 60 SECOND BUZZER TIME OFF SECOND PRE REC TIME OFF SECOND

D. Network Settings

From the sidebar on the left, click "Network Setting", and then select "Network" to enter the network settings interface. The menu allows users to set a lower bandwidth for Internet video transmission.

NETWORK					X
■-ENCODE SETTING └-video parameter RECORD SETTING ■-ALARM SETTING	BASICATTRIBUTE				
- DEVICE ALARM - CHANNEL ALARM	TYPE	DHCP 🗸			
- NETWORK SETTING	IP		NETMASK		
– MOBILE – EMAIL – IP FIREWALL	PREFERRED DNS				
ESMS SETTINGS	MEDIA PORT	9000	WEB PORT	8096	
FTP SETTINGS	GATEWAY	192.168.1.1			
- SYSTEM INFO - REMOTE UPGRADE	PPPoE				
≟- USERMANAGER	PPPoE ENABLE	OFF 💌			
	USER NAME		PASSWORD		
	DDNS				
	DDNS ENABLE	OFF 💌			
	SERVICE	3322	HOST NAME		
	USER NAME		PASSWORD		
				DEFAULT SETUP	REFRESH

E. Mobile Settings

From the sidebar on the left, click "Network Setting", and then select "Mobile" to enter the "Mobile Settings" interface. From this page, users can set ports and select a network type.

- ENCODE SETTING - VIDEO PARAMETER - RECORD SETTING - ALARM SETTING - CHANNEL ALARM - CHANNEL ALARM - CHANNEL ALARM - NETWORK SETTING - NETWORK SETTING - ESMS SETTINGS - FTP SETTINGS - FTP SETTINGS - FTP SETTINGS - SYSTEM INFO - REMOTE UPGRADE - USERMANAGER	MOBILE PORT 10510 NETWORK TYPE 2.756 V	REFRESH

F. Email Settings

From the sidebar on the left, click "Network Setting", and then select "Email" to enter the email settings interface. From this menu, users can enable or disable email notifications, set the time interval for sending

email notifications, enable or disable SSL, and modify SMPT settings (i.e. setting the SMTP server, port, sender, password, and addresses).

Enail				
- RECORD SETTING - ALARM SETTING - CHANNEL ALARM - CHANNEL ALARM - NETWORK SETTING - NETWORK HOBILE - EMAIL - PFIREWALL - ESMAS SETTINGS - FTP SETTINGS - FTP SETTING - SYSTEM INFO - REMOTE UPGRADE - USERMANAGER	EMAIL ENABLE SSL ENABLE EMAIL SETTING SMTP SERVER SENDER ADDRESS 1 ADDRESS 3	OFF	SEND INTERVAL ON SMTP PORT PASSWORD ADDRESS 2	SECOND
			DEFAU	LT SETUP REFRESH

G. IP Firewall Settings

From the sidebar on the left, click "Network Setting", and then select "IP Firewall" to enter the firewall settings interface. From this page, users can turn the firewall on or off for specific IP addresses.

IP FIREWALL	
- ENCODE SETTING - VIDEO PARAMETER - RECORD SETTING - DEVICE ALARM - DEVICE ALARM - CHANNEL ALARM - CHANNEL ALARM - NOBILE - MOBILE - EMAIL - IP FIREWALL - ESMS SETTINGS - FTP SETTINGS - FTP SETTINGS - FTP SETTING - REMOTE UPGRADE - USERMANAGER	
	SETUP DEFAULT REFRESH

H. ESMS Settings

From the sidebar on the left, click "Network Setting", and then select "ESMS Settings" to enter the ESMS settings interface. From this interface, users can select the interval for receiving ESMS alerts, and add phone numbers that should receive ESMS alerts if alarms are triggered.



I. FTP Settings

From the sidebar on the left, click "Network Setting", and then select "FTP Settings" to enter the file transfer protocol (FTP) settings interface. From this page, users can set the port, username, password, and host name for FTP.

J. System Settings

From the sidebar on the left, click "Advanced Setting", then select "System Setting" to enter the system settings menu. From this menu users can set the language and TV mode for the DVR, and set starting and ending times and dates for Daylight Savings Time (or turn the setting off altogether).

SYSTEM SETTING	k					×
SYSTEL SETTING - ENCODE SETTING - VIDEO PARAMETER - RECORD SETTING - ALARM SETTING - DEVICE ALARM - CHANNEL ALARM - NETWORK SETTING - NETWORK - MOBILE - EMAIL - IP FIREWALL - ESMS SETTINGS - ADVANCED SETTING - SYSTEM INFO - REMOTE UPGRADE - USERMANAGER	SYSTEM SETTING LANGUAGE TV MODE DAYLIGHT SAVING TIME DST START TIME : END TIME :	ENGLISH PAL ON IST WEEK	SUNDAY	JANUARY	 ✓ 02:00 ✓ 02:00 	
				DEFAULT	SETUP RE	EFRESH

K. System Information

Device/Software Version Information: From the sidebar on the left, click "System INFO", and then select "Version INFO" to enter the system information interface. Here, users can find out the device name and software version, and the release date.



HDD Information: Clicking "HDD INFO" under the "System INFO" tab will open the hard disk drive information interface. From this page, users can check the hard disk drive status, the total storage capacity of hard disk drive, and of the amount of free space left on the hard disk drive.

HDD INFO					
E-ENCODE SETTING UDEO PARAMETER -RECORD SETTING -DEVICE ALARM CUVICE ALARM	HARD DISK	INFO LIST			
CHANNEL ALARM CHANNEL ALARM CHANNEL ALARM CHANNEL ALARM CHANNER SETTING CHANNEL CHAN	NUMBER 1 2	DISK STATE NORMAL NO DISK	TOTAL SIZE 953G	DISK FREE SIZE 931 G REFRESH	

L. REMOTE UPGRADE

From the sidebar on the left, click "REMOTE UPGRADE" to enter the remote upgrade interface. Clicking "will select file for upgrading. Then click the "Remote Upgrade" button in the center of the screen.

ENCODE SETTING - RECORD SETTING - ALARM SETTING - DEVICE ALARM - CHANNEL ALARM - CHANNEL ALARM - NETWORK SETTING - NETWORK SETTINGS - FTP SETTINGS - FTP SETTING SYSTEM INFO - YVERSION INFO - HOD INFO - HOD INFO - REMOTE UPGRADE TUSERMANAGER

M. User Management

Add/Delete Users: From the sidebar on the left, click "User Manager", and then select "ADD OR DEL" to enter the user management interface. Once a password has been enabled, this interface can only be accessed by the Administrator. The Administrator can add new users or delete any users at his or her discretion.

ADD or DEL	
- ENCODE SETTING UTIDEO PARAMETER - RECORD SETTING - ALARM SETTING	ADD USER
	USER NAME
NETWORK SETTING	PASSWORD
NETWORK MOBILE EMAIL	ADD USER
- IP FIREWALL - ESMS SETTINGS - FTP SETTINGS	
ADVANCED SETTING	DELETE USER
SYSTEM INFO	user1 33
REMOTE UPGRADE	DELETE USER
ADD or DEL MODIFY PASSWORD or PE	REFRESH
< <u> </u>	

Privacy Settings: From the sidebar on the left, click "User Manager", and then select "MODIFY PASSWORD OR PRI" to enter the privacy settings interface. Once a password has been enabled, this interface can only be accessed by the Administrator. The Administrator can use this page to set and or modify the system password, local permissions, and remote permissions.

DODIFY PASSWORD or PERMISSION		X
- ENCODE SETTING - VIDEO PARAMETER - RECORD SETTING - ALARM SETTING - I- DEVICE ALARM - VIDEVICE ALARM	PASSWORD ENABLE PREVIEW PERMISSION]
CHANNEL ALARM	USER NAME MODIFY PASSWORD Admin OLD PASSWORD NEW PASSWORD	
- IP FIREWALL - ESMS SETTINGS - FTP SETTINGS - ADVANCED SETTING - SYSTEM SETTING		
SYSTEM INFO	✓ AUTO SEQUENCE ✓ EZOOM ✓ UPGRADE/REBOOT/MAINTENANCE/RESUME PARAMETER/FORMAT PIP REMOTE PERMISSION	
- ADD or DEL MODIFY PASSWORD or PE	PTZ CONTROL RECORD/CAPTURE PLAYBACK/DOWNLOAD SET PARAMETER PREVIEW PERMISSION CH1 CH2 CH3 CH4	
	MODIFY PERMISSION	
<>	REFRESH	

6.5.7 Local Settings

From the sidebar on the top, click "Local Setting" to enter the local settings interface. From this page, users can set up the save path for local settings; in the "Record Save Path" field, they can create a save path for recordings, in the "Frame Save Path" field, they can create a save path for video/still images, and in the "File Save Path" they can create a save path for downloads. Clicking "____" will set up the respective save path.

٩					- X
	RECORD SAVE PATH	c:\DVR\record\			
	FRAME SAVE PATH	c:\DVR\capture\			
	FILE SAVE PATH	c:\DVR\download\			
		arte colas consent			
				DEFAULT APPLY	

6.5.8 Logout

Click "Logout" to log out of the system.

7. Wap Connection

The digital video recorder can also be remotely accessed by using a Web browser installed on a mobile phone that supports **xHTML** and **MJPEG file formats**, and has a screen resolution of 320x240 or higher. To access the digital video recorder, follow these instructions:

- 1. Make sure the digital video recorder is connected to the Internet.
- Open the Internet browser on the mobile phone and enter the IP address of the DVR. For example, if the IP address of the DVR is 192.168.1.157 and its web port is 86, enter <u>http://192.168.1.157:86/wap.html</u> in the address field, and then click "ENTER".
- 3. A login interface will automatically appear; enter the username and password in their respective fields, and then click "login." The "username" and "password" fields should be left blank if the password for the DVR has not been set; if a password for the DVR system has been enabled, the username and password entered on the mobile phone Internet browser should be the same as those used to enter the DVR system from a local computer.



- 4. After logging in to the system successfully, a settings page will appear. From this page, users can choose the channel to monitor, the image size, and the refresh rate. Click "OK" for the settings to take effect.
- 5. At this point, the mobile phone should be displaying the video from the selected channel. The image will automatically refresh in several seconds if a refresh rate was selected on the settings page. If the manual refresh mode was selected, the video will not refresh until the user clicks "refresh." The channel being monitored, the image size, and the refresh rate are can only be set or modified on the settings page. To adjust them, click "Return" to reconfigure the parameters.



Note: It is only possible to monitor one channel at a time. To view another channel, press "return" and choose another channel number in the settings page.

8. Mobile Phone Support

This DVR device can transmit live feed from the CCTV cameras to your mobile phone, so that you can have 'on the go' access to your surveillance system from virtually anywhere. To view, you must install a mobile operating system specific program into your mobile. The mobile programs are located on the included CD, or downloaded via iTunes for the Iphone mobile. In iTunes, please search for or "MobileEye". Please see the instruction manual for your mobile to install the program. Currently, there are a limited number of phones that are supported: Windows CE Mobile, Symbian S60 3rd and 5th Edition OS, Google Android, BlackBerry OS 4.x+ and Apple Iphone.

Note:

 Prior to using this feature, you should apply for an Internet connection service for your mobile phone, such as 3G or 2.5G. Please contact your mobile service provider for details.
 You can watch one live feed channel at a time with your mobile phone through "MobileEye". Split mode and playback of recorded files is not available at the moment.

8.1 Windows CE Mobile Phone

From the installation CD, install file *"MobileEye.cab"* onto the Windows Mobile phone. See the user manual included with the phone for more details on installing this application.

Find and run the program "MobileEye". Click the "Settings" button and enter the IP address of the DVR.

NobileEye	¶⊉ ბ_ 4€ 14:45 ok	MobileEye	¶⊉ Ž⊐ 📢 14:57 🗙	都 💽 MobileEye 🦳 👫 🎦 📢 14:55 🗙
		Mobile Eye		Mobile Eye
Favorite	15 🔻	Channe Channel1	▼ Connect Setting	Channel Channel Channel Setting
UserName	222222 -			
Password				AL MAN
Server	192.168.1.101 -			the seal
Port	15961 👻			
ChannelCount	4			
DefaultChannel	1 . •			
RecordName	Save/Delete			
Ok	Quit			
1	/ersion:20100315			fps=15,size=320x240,bitrate=131kb

A screen that looks like the adjacent screenshot will appear; enter the username, password, server (the IP address of the DVR) and Port (the default is "10510") in their respective fields. Next, choose the Channel Count for streaming data from the dropdown menu and choose a Default Channel for remote access viewing. Choose a Record Name for the files that will be viewed the most frequently.

Click "OK" to save the settings.

The main window of the "MobileEye" application offers a choice of channels, connection, and settings buttons. To connect to the system and begin watching the live feed from the CCTV cameras connected to this DVR, press the "Connect" button near the top of the screen.

To choose the camera, use the "Channel" dropdown menu.

To modify settings, press the "Setting" button.

The frame rate (fps), resolution (size), and bit rate (Kbps) of the current channel will be displayed at the bottom of the screen.

The toolbar contains the following controls:

- 🔍 🤄 Zoom in / out
- 🗿 👩 Iris
- 🛽 🚺 Focus
- Snapshot

8.2 Symbian S60 3rd and 5th Edition Phones

From the installation CD, install the file "*MobileEye.sisx*" onto the Symbian S60 mobile phone (for the list of mobile phones tested and approved for compatibility, see "List of Symbian Supported Mobile Phones"). For instructions on installing software onto the mobile phone, refer to the user manual that was included with the phone.

The following is an illustration of the "MobileEye.sisx" installation process on Symbian S60 phones:





After the installation is complete, locate the Mobile Eye icon

" in the

list of applications on the mobile phone.

In order to start working with the CCTV feed on the Symbian mobile phone, it will be necessary to configure the program by entering the preferred network access point, the IP address of the DVR, the mobile phone port, the username, and the password.

Click the *** *** to enter the setup page.

In the "Settings" screen, enter the following data:

Select Default Point: Choose the network that will be used to connect to the Internet. The options are: "None", "WAP over GPRS", and local mobile service providers. If the "None" option is selected, after pressing the "**)**"

button, a list of available networks to choose from will appear.

Server Address: Enter the DVR's IP address in this field.

Server Port: Enter "10510" (the default port number) in this field.

Username: Enter the user name of the DVR in this field.

Password: The password field should be left blank if the password for the DVR is disabled; if a password has been enabled for the DVR, it will be the same as the one used to access the DVR from a local computer.

Save the preceding settings and return to the main window by pressing "Done", or press "Cancel" to discard the changes.

Press the ">" button to connect to the DVR. After successfully logging in to the DVR system, it will be possible to watch the remote video feed on the Symbian S60 mobile phone.

Run the Mobile Eye program, and the following screen will appear.



To navigate between the buttons, use the directional keys on the mobile phone.

Explanation of the menu buttons and program interface:

Connecting Status information line. The first status tag indicates the name for the selected control button in the control bar (in the adjacent illustration, it is "Play"). The second tag word indicates the current status of the program (in the adjacent illustration, it is "Connecting").

Control buttons:



Play

Use these buttons to select channels. If the DVR supports 8 channels, use the switch between channel buttons 1-4 and 5-8.



Ð	8	Ø
Q	8	0

Use these to adjust the zoom, focus, and iris of the PTZ camera.

Function Buttons:

When highlighting these buttons, the name of the corresponding function will be displayed in the status information line (the first tag name).



Play / Pause

Use these buttons to play and pause the video.

Full Screen

This function displays the camera feed in the full-screen mode. All menus and buttons will be hidden in full-screen mode.



The function enables users to take a snapshot of the camera view.



After pressing this button, the connectivity setup screen will appear.

Next Group

Pressing this button will switch to next 4 channels.



Pressing this button will exit the Mobile Eye program.

List of Symbian Supported Mobile Phones

Review the list of Symbian mobile phones tested and approved for compatibility with the remote access to DVR.

LG-KT610	Nokia N71
LG KS10	Nokia N73
LG-KT615	Nokia N75
Nokia 3250	Nokia N76
Nokia 5320 XpressMusic	Nokia N77
Nokia 5500 Sport	Nokia N78
Nokia 5630 XpressMusic	Nokia N79
Nokia 5700	Nokia N80
Nokia 5730 XpressMusic	Nokia N81
Nokia 6110 Navigator	Nokia N81 8GB
Nokia 6120	Nokia N82
Nokia 6121	Nokia N85
Nokia 6210 Navigator	Nokia N86 8MP
Nokia 6220	Nokia N91
Nokia 6290	Nokia N92
Nokia 6710 Navigator	Nokia N93
Nokia 6720 Classic	Nokia N93i
Nokia E51	Nokia N95
Nokia E55	Nokia N95 8GB

Nokia E60	Nokia N96
Nokia E61	Nokia N97
Nokia E61i	Samsung I7110
Nokia E62	Samsung INNOV8
Nokia E63	Samsung SGH-G810
Nokia E65	Samsung SGH-i400
Nokia E66	Samsung SGH-i450
Nokia E70	Samsung SGH-i520
Nokia E71	Samsung SGH-i550
Nokia E75	Samsung SGH-i560
Nokia E90	Samsung SGH-L870

8.3 Apple iPhone

The Apple iPhone application, like all iPhone applications, needs to be downloaded directly from the iPhone App Store. Open iPhone APP store, search for "MobileEye" they are free applications.

1) "MobileEye" installation

Open the iPhone App store ", touch ", and search for "MobileEye". And install it onto iPhone.

2) How to use "MobileEye":

1. Click the "MobileEye" icon to open the program. Click "20" to the interface to select the setting type as

below. There are two ways to view the live feed from the DVR on the screen: by IP address (or DDNS) and by Auto ID.



a. By IP address (or DDNS)

Click "Direct Access", after entering the Settings menu, the following fields will need to be completed. Click "History" to enter the interface as below, and on the interface user can see all the records of the devices (IP address) had been connected. Click one to enter the settings menu, and click "clear" to remove all the records.

Back Settings History	Back	Settings	History		Back	History	Clear
Server ID:	Server ID:	14.115.97.206	8		192.168.1	.157	
Port:	Port:	10510	8		113.106.3	.177	
					113.73.12	0.75	
User ID:	User ID:	Admin	8		192.168.1	.67	
Password:	Password:	•••••	8	:	szzxw.33	22.org	
				ŀ	14.115.97	.206	
				_			

Server ID: The public IP address or dynamic domain name of the DVR.

Port: The server port of the DVR for remote access viewing via mobile phone, the default is "10510".

 $\ensuremath{\text{User ID}}\xspace$: The user name set for entering the DVR system.

Password: The password set for entering the DVR system.

Click "Back" to the main interface.

b. By Auto ID

Click "Server Acc...", after entering the Settings menu, the following fields will need to be completed. Click "History" to enter the interface as below, and on the interface user can see all the records of the devices (device ID) had been connected. Click one to enter the settings menu, and click "Clear" to remove all the records.

Back Settings	History	Back	Settings	History		ck	History	Clear
Server ID:		Server ID:	оокммо	8	00	КММ0		
			Ì		aZ	57Fg		
User ID:		User ID:	Admin	8	12	sDxh		
Password:		Password:	•••••					

Server ID: The device ID number of the DVR. User can enter the menu "System

Settings—System—User—Device ID", and the interface includes "device ID".

User ID: The user name set for entering the DVR system

Password: The password set for entering the DVR system.

Click "Back" to the main interface.

②. Return to the main screen. The following is an explanation of the buttons on the main screen:



Other icons as below:

- Use the numbers to select the live view channel to display.
- Play/Stop button.
- Capture: to capture a frame of the video stream as a still photo.
- Enlarge the selected channel to full screen.
- Zevice set up, you can set up Devices (DVR) unlimitedly.

8.4 Android Mobile

The type of software for the android mobile phone: MobileEye.

1) "MobileEye" installation

Please go to the android software market "

CD, copy the setup software "MobileEye.apk" to user's Android phone or to SD card.

Open your "File Manager" in android phone and find the file "MobileEye.apk" in your android phone memory or SD card. Click [MobileEye.apk] to install the software.

2) How to use "MobileEye":

①. Click the "MobileEye" icon to open the program. Click "setting" to access the settings page. This page will be used during the first time entering the software and later if it becomes necessary to change the parameters of the system.

🥘 🜵	9 <u>9</u> 1 <u>7</u>	¦ 💈 14:50	MobileEye			Setting	
	?	All and a second	•	Connect	Setting	Favorite	Please select a re
	ini User Portable Guide WLAN	Richpad				IP	
						Port	
YYBackup Me	essenger iUMS	SearchOnGP S				PnP	
	C	67				UserName	
UIM I Application	MSeye KWeye+	MobileEye+				Password	
		,				DefaultChann el	1
One Touch N Optimize	Weixin MobileEye		Ready			RecordName	Save/ Delete
•	•••••	3		8 8 8		Save The cu	Cancel

There are two ways to view the live feed from the DVR on the screen: by IP address (or DDNS) and by Auto ID. By IP address (or DDNS), user needed to set up "IP", "Port", "User Name", "Password" and "Record Name". And by Auto ID, user needed to set up "PnP", "User Name", "Password" and "Record Name".

Setting		Setting		
Favorite	Please select a re 🔍	Favorite	e	Please select a re
IP	113.106.3.177	IP		
Port	10510	Port		
PnP		PnP		jZdYp
UserName	Admin	UserNa	me	Admin
Password		Passwo	rd	
DefaultChann el	4	Default	Chann	2
RecordName	4CH Save/ Delete	Record	Name	D Save/ Delete
Save	Cancel		Save	Cancel
The cu	rrent version:V5.2.6		The cur	rrent version:V5.2.6

By IP Address or DDNS

By Auto ID

Favorite: Saves settings for future usage.

IP: The public IP address or dynamic domain name of the DVR.

Port: The server port of the DVR for remote access viewing via mobile phone, the default is "10510".

PnP: The device ID number of the DVR. User can enter the menu "System Settings—System—User—Device ID", and the interface includes "device ID".

User Name: The user name set for entering the DVR system.

Password: The password set for entering the DVR system.

Default channel: Using this field, set the default channel to be displayed when the mobile phone is connected to the DVR for remote access viewing.

Record Name: Use this field to save the name of the recording.

Note: After changing settings, always press "**Save**" to save the information in the designated folder. Later, it will be easier to find the record in the favorite.

②. Return to the main screen. Next, press "connect" on the main interface and it will connect to the server. From this menu, users can also switch channels, operate PTZ controls, including zoom/iris/focus, use the phone to capture still images, and display videos in full-screen mode. See following illustration for more details.



Other icons as below:

- 2 Change the live view channel.
- Press this icon to connect to the DVR.
- Setting Press this icon to set up Devices (DVR) unlimitedly.
- O Capture: to capture a frame of the video stream as a still photo.
- Press this to enter full-screen mode, and press it again to return to normal viewing mode.

8.5 BlackBerry Mobile

1) Mobile Eye Program Installation

- 1. Copy the setup software "MobileEye.cod" and "MobileEye.alx" to a computer.
- 2. In order to be able to install applications and themes via BlackBerry Desktop Manager, the computer must already have BlackBerry Desktop Manager installed on it (in this manual, BlackBerry Desktop Manager will be referred to as "DM"); otherwise, the phone will not be able to establish a connection with the computer.
- 3. Connect the BlackBerry mobile phone to the computer using the USB cable included with it or any other USB cable that fits. Start the DM.
- 4. Before the installation, open the BlackBerry Desktop Manager. Figure 1 shows that the phone is not connected to the computer, whereas Figure2 means the phone has been successfully connected to it, as indicated by the status circled in red in each figure.







Figure 2

5. Click "Application Loader" to access its interface. In this screen there are two options to select from. Select "Add/Remove Applications" (shown in the following illustrations) and click "Start."

🕸 Connected - BlackBerry	y Desktop Manager	
[:] BlackBerry _®	BlackBerry® Desktop Manager	
🛃 Application Loade	r	Options 🔻 Help 👻
Add / R	emove Applications	Update Software
Add new applications applications.	to your device or remove existing	Update your device software.
	Start	Start
		Notifications for software updates
		Main menu
Device connected (PIN): 208	BEFE2D	Check for updates
BlackBerry®Desktop Manager	v4.7	©2008 Research In Motion Limited

6. After clicking "Start", the following screen will appear. From this screen, click "Browse" (circled in red in the following screenshot).

Connected - BlackBerry	Desktop Manager				
₩ BlackBerry _®	BlackBerry [®] Desktop Manager				
🎍 Application Loader				Option	s▼ Help`
Device application s	election		/		
Select the application that remove from your device.	you want to add to your device, or clear th	he application that you wa	ant to T	otal application spa	ce: 14 MB
Name		Action	Version	Size	
QuickText		None	1.1.2.89	55 KB	^
🗹 BBLight		None	1.82	10 KB	
🗹 Dictionary and Thesau	rus - Dictionary com	None	1.0	251 KB	
✓ towerbloxx_all		None	1.7.19	247 KB	
🗹 sims3_8300		None	14.0.47	681 KB	
UltimateConverter Calc	ulator	None	1.0	237 KB	
🔽 Tranquil Garden		None	1.0	2 MB	~
		Details	Browse	Delete Se	ettings
			М	ain menu 🛛 🛛 Back	Next
Device connected (PIN): 208E	FE2D			Chec	<u>ck for updat</u>
lackBerry®Desktop Manager v4	4.7			©2008 Research In N	lotion Limite

7. After clicking "Browse", the following file search screen will appear. Open the folder to which the application files were saved. Make sure that both the ".alx" and ".cod" files have been saved in the same folder. After finding the "MobileEye.alx" file for the application, select it and click "Open".

Open						? 🗙
Look <u>i</u> n:	Blackberry050	06	• •	ø 1	• 🖽 🏓	
My Recent Documents	blackberry codloader MobileEye.alx)				
Desktop						
My Documents						
My Computer						
	File <u>n</u> ame:	MobileEye.alx			~ (<u>Open</u>
My Network	Files of <u>type</u> :	Application Loader Files (*.alx;*.a	ali)		*	Cancel

8. The "Application Loader" screen will automatically appear. In this screen, "MobileEye" should now be listed in the "Device application selection" list with "Install" listed under the "Action" column (as shown in the following screenshot) if the installation was successful.

SlackBerry _®	BlackBerry® Desktop Manager				
Application Loade		Options 🔻 Help			
Device application	selection				
Select the application tha remove from your device.	it you want to add to your device, or clear	the application that you w	vant to To	tal application spac	e: 14 ME
Name		Action	Version	Size	
Mobile Eye		None	05.07	287 KB	^
🗹 BusinessWeek		None	3.0.0.95	436 KB	
🔽 QuickText		None	1.1.2.89	55 KB	_
🗹 BBLight		None	1.82	10 KB	
V Dictionary and Thesa	urus - Dictionary com	None	1.0	251 KB	
✓ towerbloxx_all		None	1.7.19	247 KB	
🗹 sims3_8300		None	14.0.47	681 KB	~
		Details	Browse	Delete Set	tings
			Mai	n menu 🛛 🛛 Back	Nex
evice connected (PIN): 208					k for upda

9. From the same "Application Loader" screen, "MobileEye" can also be removed from the BlackBerry by taking the following steps. From the "Application Loader" screen, under the "Device application selection" list, select the application to be removed from the BlackBerry. When the option under the "Action" column is listed as "Remove", the program will be removed from the device if it is selected.
| onnected - BlackBerr | y besktop manager | | | | |
|---|--|-------------------------------|------------|---------------------|------------|
| SlackBerry® | BlackBerry® Desktop Manager | | | | |
| Application Loade | er | | | Options | ▼ Help |
| Device application | selection | | | | |
| Select the application the
remove from your device | at you want to add to your device, or clea
e. | r the application that you wa | nt to Tot: | al application spac | e: 13 MB |
| Name | | Action | Version | Size | |
| Mobile Eye | | Remove | 05.07 | 287 KB | ^ |
| 🔽 BusinessWeek | | None | 3.0.0.95 | 436 KB | |
| 🗹 QuickText | | None | 1.1.2.89 | 55 KB | _ |
| 🗹 BBLight | | None | 1.82 | 10 KB | |
| 🗹 Dictionary and Thes | aurus - Dictionary com | None | 1.0 | 251 KB | |
| ✓ towerbloxx_all | | None | 1.7.19 | 247 KB | |
| 🔽 sims3_8300 | | None | 14.0.47 | 681 KB | ~ |
| | | Details | Browse | Delete Set | tings |
| | | | Main | n menu 🛛 🛛 Back | Nex |
| vice connected (PIN): 20 | 18EFE2D | | | Check | (for upda |
| ckBerry® Desktop Manager | | | | 2008 Research in Mc | dian Limit |

10. Select "Mobile Eye" from the "Name" list, click "Next", and the following screen will appear. At the bottom of the "Summary" page (see following screenshot) click "Finish" to confirm the operation, and the application "MobileEye" will be removed from the device.

💷 Connected - BlackBerry	y Desktop Manager	
∷ BlackBerry _®	BlackBerry® Desktop Manager	
Application Loade	r	Options 🔻 Help 🔻
Summary		
Applications to be dele Mobile Eye	ted:	
		Cancel Back Finish
Device connected (PIN): 208	EFE2D	Check for updates
BlackBerry®Desktop Manager	v4.7	©2008 Research In Motion Limited

2). Mobile Eye Program Description

The main functions of the Mobile Eye application are: remote access viewing of live video surveillance recorded with a DVR via mobile phones, full-screen viewing of videos streamed from a DVR, remote access control of PTZ cameras, capturing video frames as still images, and tagging recordings as "favorites."

① Main System Interface

After the installation, touch the "MobileEye" icon in the application (as in the following illustration).



After opening "Mobile Eye", the following screen will appear; this is the main system interface.



② System Configuration interface

Press "Configure" (see preceding screenshot) to access to the page for configuring and modifying settings. The settings or parameters can be modified as necessary.

The following offers an explanation of some of the fields in the system configuration interface:

record lists:	please	e selec	t one	record
User Name:				
Password:				
Address:buffalo8	14.3322	.org		
Port:10510				
record name:Ay				
R	ecord	Dele	ete	
Save	e Ca	ncel		
Version:	:V_05_07	7		

Record lists: Saved records can be found here;

User name: This refers to the DVR's device ID

Password: This is user password for entering the DVR system

Address: This is the public IP address or dynamic domain name of DVR.

Port: The server port listed on the DVR menu; the default is "10510."

Record name: Use this field to save the name of a record. After the naming the record, press "SAVE", and it will be saved in the "Favorites" folder.

Save: Press this to save the settings or any changes to the settings.

Cancel: Press this to cancel all operations.

③ Live View Interface

After changing the settings, press "Save" or "Cancel" to return to the main interface, and press "Live" to enter into the interface for live view remote viewing of the DVR's surveillance videos (the following screen will appear after pressing "Live"):

Choose Channel:	
Ready!	
$\land \lor \lt \triangleright + - * * $	

Explanation of Toolbar Buttons:

Choose Channel: This function switches the channel being viewed. It may only be enabled AFTER connecting to the DVR.



④ Connecting to the DVR

To connect to the server, press the "Menu" button on the mobile phone, and the following screen (the "Menu" screen on the left) will appear. Select "Connect" and the "Connect" tab will be highlighted. Then, press the "Enter" button to connect to the server.





Menu

Video monitor

After clicking "Enter", a screen similar to the preceding "Video Playback" screen (on the right) will appear. From this interface, users can switch channels, adjust PTZ controls, capture still images of video frames, and view videos in full-screen mode.

5 System Help Interface

After configuring the settings, return to the main interface and press "Help" to enter the "Help" interface.

6 Exit

To exit, go back to the "Menu" interface and press "Exit." A window asking, "Do you want to exit?" will then appear; press "yes" to exit the program, or press "no" to return to the "Menu" interface (see the following screenshot):



3) FAQ – Frequently Asked Questions

- 1: Why can't the mobile phone connect to the server?
 - A: Check that the server, port, username, and password have been entered correctly; misspellings and entering incorrect information are typical causes of connection problems.
 - B: Make sure the mobile phone is connected to the Internet; if an Internet service plan has not been purchased or if the Internet connection itself is not functioning, it will be impossible to connect to the server.
- 2: Why can't I control the PTZ after entering the Mobile Eye main interface?
 - A: The camera connected to the channel being viewed may not actually be a PTZ camera (not all surveillance cameras are PTZ cameras), in which case, the PTZ controls will not be effective. Or the camera itself may have hardware problems (i.e. it may not be able to pan, tilt, or zoom properly, even when operated locally). To solve this problem, first check that the camera recording the video that is currently being viewed is actually a PTZ camera; next, check to make sure that it is properly set up and does not have any damaged or dysfunctional parts.
 - B: The remote PTZ control function might take more time to load than expected depending on the Internet connection; be patient wait and then try using the controls again.

Troubleshooting

This basic troubleshooting guide will help to identify general malfunctions and offer instructions for quick resolution of these problems.

If the failure or malfunction cannot be resolved by following these instructions, please contact a qualified technician.

 The DVR is not working after startup. What happened? Check the adapter input – are all of the input cables connected properly? Check the power cord; is it properly connected to the power source? Check the on/off switch – is it turned on? Check the upgrade procedure.

Check the main board of the DVR - do all of the indicators indicate that the settings are correct?

2. What should be done if the DVR is rebooting automatically or has stopped midway through starting up?

Check for the following problems:

Unstable or low input voltage.

The connection to the hard disk drive is unstable or dysfunctional.

The power supply is insufficient.

Excessively high or low temperature, too much dust, or other physical factors that could affect the DVR's ability to operate.

The motherboard is not well-connected with other boards.

The hardware of the DVR is defective – take the device to a certified technician to have it examined.

3. What if there is no output of single-channel, multi-channel or all-channel video?

Check the adapter of the camera to make sure it is securely connected.

Check the cable for connecting video input/output in the back panel of DVR to make sure it is securely connected.

Insert the video source directly into the display device and check if the video source is causing the problem.

Check the brightness of the picture and restore the original default setting.

Check to see if there is no video input signal or if the video input signal is too weak.

Make sure the display settings have been configured correctly.

The hardware of DVR could be defective - take the device to a certified technician to have it examined.

4. What if the DVR cannot record after startup and the interface is showing " "?

Make sure power adapter is a DC-12V.

Make sure HDD has been properly formatted.

Make sure the power and data connection cables of the HDD are connected and undamaged.

The HDD could be defective - test it with another device to find out.

The SATA port may be not working - have a qualified technician examine it to find out.

5. What if the DVR is having problems with real-time images, such as serious color or brightness distortion?

If PAL or NTSC has not correctly selected on the BNC output, the images will be in black and white. Make sure the DVR is compatible with the monitor being used.

Make sure the video transmission distance is not too far.

Try manually adjusting the settings of the DVR color, brightness, and so on.

6. What if there is no sound?

Check that the sound box or speaker functions. Also check for possible short- circuiting problems. The audio source may be connected to the video channel. Select the full-screen mode to check. The hardware of DVR could be defective - take the device to a certified technician to have it examined.

7. What if the sound cannot be heard during playback?

There may be a settings problem: open the DVR settings menu and the computer's audio settings menu, and check the settings.

Check the audio to see if it is set as "closed" in the playback interface.

8. What if the system time is not correct?

The wrong setting might be selected. Correct the time, and make sure to click "" to confirm the changes. The battery may not be connected properly.

The battery might be dead, in which case, change the battery.

9. After right-clicking "Stop recording" on the toolbar, the recording does not stop. How do I stop recording?

The "Stop recording" function can only be executed by right-clicking during Manual recording. If you want to stop recording, please set the time is not recording.

10. What if the motion detection function is not working?

The setting of motion detection area may not have been set correctly. Check the sensitivity of the motion detector. The sensitivity level may be too low.

11. What if the remote control does not work?

The address of remote control may be incorrect. The distance from the remote control to the device may be too far or the angle may be too large. Check the remote control batteries have not been drained. Make sure that the remote control and the front panel of the DVR are not damaged.

12. Why I can't log in to the WEB?

Check to make sure that the computer has been connected to the Internet properly. Check if the "LINK" or "100M" LED is displayed normally on the panel; use ping xxx.xxx.xxx (DVR IP) to check if the Internet is linked properly.

It is recommended that you use either Windows XP or Vista as the operating system, and Internet Explorer 6.0 or Internet Explorer7.0 as the Internet browser with this DVR.

The ActiveX controls may have been blocked. Manually reinstall the ActiveX controls.

The video card driver may be out of date; install DX8.1 and upgrade the video card driver.

Appendix 1. Setting up Internet Connections for Remote Access

This section will explain the ways to connect your DVR to the internet using static and dynamic IP addresses. To connect to the internet, you will need to use a modem and a router.

As a network device, your DVR should have its own address called an Internet Protocol (IP) address. This address can be used by other network devices (ie. computers) to access the DVR to remotely monitor the CCTV cameras and change settings. You can also get a static IP address from your internet service provider – this way, you will always have the same address at all times, though this method is rather expensive. If you have a static IP, enter your static IP in the DVR settings and the router will connect your DVR to the Internet.

You may alternatively choose to use a dynamic IP, which means that the IP address of your DVR may frequently change, but it will still be possible to find your DVR from remote computers, by using DDNS (Dynamic Domain Name System), which dynamically assigns IP addresses to the DVR. This functionality allows the DVR to automatically update its IP address to the DDNS Server each time its Dynamic IP address

changes. Your DVR is equipped with the DDNS functionality and has a list of related domain names through which you can acquire an IP address. (See Section 5.5.3 for details.)

Set up an account with a DDNS service provider and with the account information available, log in to the router and go to the DDNS page. Select the address of your service provider and type in the account password. After saving this information, the router will send IP updates to your DDNS account and the connection will always be forwarded to you current IP.

Appendix 2. DVR-Compatible Hard Disk Drives

The following is a list of Hard Disk Drives (HDDs) tested and found to be compatible with the DVR. Before using an HDD not found on this list, it is extremely important to test it for compatibility first.

Brand name	Model Number	Size/Capacity(GB)	Drive Type
WD	WD7500AAKS	750	SATA
WD	WD10EACS	1000	SATA
WD	WD10EARS	1000	SATA
WD	WD5000AADS	500	SATA
WD	WD20EVDS	2000	SATA
Seagate	ST31000341AS	1500	SATA
Seagate	ST31000524AS	2000	SATA
HITACHI	HDS721010CLA332	1000	SATA
Seagate	ST3500418AS	500	SATA
Seagate	ST31000340AS	1000	SATA
Seagate	ST31000528AS	1000	SATA

Appendix 3. DVR- Compatible Portable Wireless Mouse

The following is a list of wireless mouse tested and found to be compatible with the DVR. Before using a wireless mouse not found on this list, it is extremely important to test it for compatibility first.

- Loditech M215
- Loditech M235
- RAPOO 7100

Appendix 4. Accessing the DVR via Mozilla Firefox

- 1. First, install Firefox on Windows (This document will use Firefox 3.6 as an example).
- After installing Firefox, search for the "IE TAB" add-on for Firefox; this file is named.
 "ie_tab_plus-1.95.20100930-fx+sm (IE Tab Plus (FF 3.6+).xpi". (This file can be downloaded from the Mozilla website).
- 3. To install: Open Firefox, then click "Tools", and select "Privacy" and a dialog box will appear. Then choose tab which is named "Get Accessory Discreteness", and copy and paste

"ie_tab_plus-1.95.20100930-fx+sm(IE Tab Plus (FF 3.6+).xpi" into the address field. A dialog box will prompt you to install or cancel the program; choose "Install immediately." After installing the program, restart Firefox Browser.

- 4. Open Firefox and enter the DVR IP address in the address field.
- 5. Right-click at blank, select "Use IE TAB Plus to play this Page", and choose "Switch browser engine." The DVR can now be connected successfully.

Appendix 5. Accessing the DVR via Google Chrome

- 1. First, install Google Chrome on Windows (this manual will use Chrome version 7.0.517.36 as an example).
- 2. After installing Google Chrome, search for the "IE TAB" Chrome add-on; this file is named "extension_1_4_30_4.crx". (This file can be downloaded from the Chrome Web Store).
- 3. Open Chrome, enter the IP address of the DVR into address bar, and the following screen will appear.



4. Drag the add-on into the browser interface and the following screen will appear.



5. Select "Allow" to download multiple files and the following screen will appear.



6. Select "Continue" to continue installing extensions and the following screen will appear.



7. Click "Install' and the following screen will appear.

🖉 🐻 CE: Web Appl	Ication Manager X 🕀							98
€ → C 0	۹,					☆	*	4
🏄 Address: h	ttp://192.168.1.247:89/				Þ	× 🖥 🔫		ж
	T /A	//////////////////////////////////////	17 4 5	****				^
								-
			USER LOGIN					
		USER ID:	[-				
		PASSADRD		-				
		NETWORK:	MAIN STREAM	-				
		-	LOGIN RESET					
								~

Note: If the web page still does not open, press the "" icon on the right of the address field to display this page in an IE based-tab.

8. Fill in your correct user name and password to log in. and the following screen will appear.

WEBSERVER ME	REPLAY REMOTE SETTING LOCAL SETTING LOGO	UT V2300
06/11/2012 12:15:45	06/11/2012 12:15:45	PLAY CONTROL
CH1 3 k	3 3	
235,5/2,1 2012/03/14 13:04:53	208.5/2.1 2012/05/14 13:04:50	
06/11/2012 12:15:45 CH3 S	06/11/2012 12:15:45 Сни З	
788.572.1 2012/05/14 13:04:53	255.5/2.1 2012/05/14 13:04:53	

Appendix 6 How to Use Auto ID - "Plug n play" Quick Guide

1. The ID number of each product is set in the factory. From the toolbar, click "System Setting", and select "user". The screen will display the user management menu, and the DVR's ID number will appear at the top of the screen (as in the following illustration):



2. Then, open the main menu, click "Network", then click "Other Settings" and select "Auto ID", to access the "Auto ID" option.

	OTHER SETTINGS	X
UPnP	CLOSE	
AutoID	OPEN	

3. Regarding use of the router to browse the Internet, first you should have the transmit codex of the router's port already mapped. Alternatively, open the UPnP, and the router will automatically map the port.

011	HER SETTINGS	X
UPnP	OPEN	
AutoID	OPEN	-

4. Once the network is connected, enter "http://www.ipremoteview.com" in the address field of the Internet browser. Then enter the DVR ID number into the "Product ID" field, as shown in the following screenshot.



Note: If after following the preceding instructions the login page does not work or the Auto ID function fails, try the following steps to add the website to the zone:

Internet Options - Security At Risk	Internet Options - Security At Risk
General Security Privacy Content Connections Programs Advanced	Trusted sites
Your security settings put your computer at risk Select a zone to view or change security settings. Image: Select a zone to view or change security settings. Image: Select a zone to view or change security settings.	You can add and remove websites from this zone. All websites in this zone will use the zone's security settings.
Internet Local intranet Trusted sites Restricted sites	Add
Trusted sites This zone contains websites that you trust not to damage your computer or your files.	Websites: http://ipremoteview.com Remove
Security level for this zone Allowed levels for this zone: All - Pedium - Prompts before downloading potentially unsafe - content - Unsigned ActiveX controls will not be downloaded	Require server verification (https:) for all sites in this zone
Enable Protected Mode (requires restarting Internet Explorer) Custom level Default level	Enable Protected Mode (requires restarting Internet Explorer) Custom level Default level
Reset all zones to default level	Reset all zones to default level
OK Cancel Apply	OK Cancel Apply

5. After the connection has been established, the Web Application Management (see the following figure) will appear.

👔 EE: Web Application Manager 🛛 🕀						22
€ → C Q					☆ 😰	4
Address: http://192.168.1.247:83/				Þ	≫彊 🏶	ж
	UALS	12 H 4 S	6 Her 2			
	_	USER LOGIN				n
	PA	55×10:				
	NE	DWORK: MAIN STREAM	ESET			
						~

Note: Refer to Section 6.4 Control Download and Installation for instructions on what to do after logging in here.