

H.264 WITH HDMI DVR Evolution 2.0 DVR Series

*4CH Ref. 1093/004H
8CH Ref. 1093/008H
16CH Ref. 1093/016H*



*8CH Ref. 1093/018H
16CH Ref. 1093/019H*



USER MANUAL INSTRUCTIONS

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1 GENERAL INFORMATION

This document describes how to install and use the URMET Evolution 2.0 DVR Series ref. 1093/004H – ref. 1093/008H - ref. 1093/016H – ref. 1093/018H – ref. 1093/019H.

Read this manual which contains information for correct, safe use carefully.

Keep this manual at hand so that you can refer to it when needed.

1.1 PRODUCT DESCRIPTION

The URMET S.p.A. product is a digital video recorder capable of recording from several cameras to internal hard disk.

1.1.1 GENERAL FEATURES

- Triplex mode (recording, play and network transmission at the same time)
- H. 264 video compression, with WD1, WHD1 e WCIF resolutions
- Windows Graphical interface; embedded real-time Linux 2.6 Operation System
- Recording in 960H Resolution
- Multiple or single recording
- HDMI/ VGA Output
- User friendly Menu
- Multiple operation modes (Preview, record, playback, backup, network surveillance and mobile phone monitoring)
- Main Stream and Sub Stream network transmission
- ADPCM audio compression
- Remote control (via browser and via client Software CMS)
- Remote control through mobile
- Supports Zoom in/out and sequence function
- Alarm management
- Multiple alarm recording
- Web Data Encryption
- Alarm notification through email
- Auto-maintenance mode
- PTZ controls via RS-485
- Backup on USB 2.0 in front Panel (flash drive or hard disk)
- Rear USB 2.0 ports for back-up, upgrade and mouse operation
- Remote Control
- Multilanguage OSD
- PDA software Mobile for the following Platforms: Symbian 3th and 5th Edition, Windows Mobile, Iphone, Android, Blackberry
- Watermark
- Synchronous Playback 4ch. for DVR 4 ch. Models, 8ch. for DVR 8 ch. Models, and 16 ch. For DVR 16 ch. Models

Here follow a Summarize about the most Features:

Function	Brief and Description
Real time monitoring	Double video output with monitor, VGA virtual output port or HDMI Output; Support CMS Client Software and MP live surveillance and also support zoom in/out, auto sequence and PIP display.
Record	H.264 video compression format; record quality/resolution/frame rate adjustable, multiple record modes (Always, Scheduled, Manual, Alarm (if available), Motion detection and remote record)
Record storage	Support SATA large capacity HDD and save real-time record image to HDD.
Playback	Support DVR single CH and multiple CH Search/Playback of recorded files.
Backup	Support DVR backup via USB flash drive, removable drive, Recorder and network.
Alarm Setting	Supports HDD & video input alarm management and external alarm signal inputs.
Network operation	Supports remote surveillance by authority users to increase system security.
Mouse Operation	Supports Mouse operation for faster menu navigation.
PTZ Control	Supports PTZ camera operations through RS-485.

1.2 OPENING THE BOX

Check that the packing and the contents are not visibly damaged. Contact the retailer immediately if parts are either missing or damaged. Do not attempt to use the device in this case. Send the product back in its original packing if it is damaged.

1.2.1 CONTENTS OF THE BOX

- DVR
- Power unit
 - INPUT ⇒ 100-240 Vac 50/60Hz 1.5 A max.
 - OUTPUT ⇒ 12Vdc 2A for **Ref. 1093/004H – Ref. 1093/008H – Ref. 1093/0016H**
 - ⇒ 12Vdc 5A for **Ref. 1093/018H and Ref. 1093/019H**
- Quick Guide
- CD-ROM containing software and user manuals
- Mouse
- IR remote control, (included 2 batteries size AAA)
- Audio cable (**Only for Ref.1093/019H**)
- Shuko plug (**Only for Ref.1093/018H and Ref. 1093/019H**)
- Italian plug (**Only for Ref.1093/018H and Ref. 1093/019H**)
- Cross LAN cable cat. 5

※IMPORTANT NOTE

Accessories may be changed without prior notice.

1.3 WARNINGS

1.3.1 POWER

- Only use the power unit provided to power the device. Check mains rating before plugging the power unit in.
- Do not pull the cable to unplug the device.
- Switch the device off before unplugging power unit. This operation must not be performed when the DVR is recording, playing or from the configuration menu. Stop recordings and playback in progress before disconnecting power from the device to prevent damaging the hard disk beyond repair.

1.3.2 SAFETY PRECAUTIONS

- Keep the device away from rain and humidity to prevent risk of fire and electrocution. Do not introduce material (solid or liquid) inside. If this should accidentally occur, disconnect the device from the mains and have it inspected by qualified personnel.
- Never open the device. In all cases, contact a qualified personnel or authorised service centre for repairs.
- Keep the device away from children, to prevent accidental damage.
- Do not touch the device with wet hands to prevent electrical shock or mechanical damage.
- Do not use the device if it should fall or the external casing is damaged. Risk of electrocution if the device is used in such conditions. Contact the retailer or authorised installer.

1.3.3 INSTALLATION PRECAUTIONS

- To prevent overheating the device, arrange it in a position allowing the flow of air through the slots in the casing. Ensure at least 5 cm of free space when installing inside a rack. For the same reason, do not install sources of heat, such as radiators or hot air ducts. Keep away from direct sunlight. Do not install in areas subject to excessive dust, mechanical vibrations or shocks.
- Do not arrange this device on an unstable surface, such as a tottering or slanted table. The device could fall causing injury or mechanical failures.
- Do not install the device in a place where it could be exposed to humidity or water. Do not direct a jet of water onto the device: risk of fire, electrocution or mechanical failure.
- Stop using the device if water or other material should penetrate inside: risk of fire and electrocution. Contact the retailer or authorised installer.
- Do not place heavy or heat generating objects on top of the device: this could damage the casing and/or increase internal temperature causing faults.
- Do not cover the device with a cloth while it is running to prevent deforming the external casing and overheating the internal parts: risk of fire, electrocution and mechanical failure.
- Keep magnets and magnetised objects away from the device to prevent faults.
- Do not use the device in presence of smoke, vapour, humidity, dust or intense vibrations.
- Wait for a while before operating a device immediately after transporting it from a cold place to a warm place and vice versa. Wait on average for three hours: this will allow the device to adapt to the new ambient (temperature, humidity, etc.).

1.3.4 CLEANING THE DEVICE

- Rub delicately with a dry cloth to remove dust and dirt.
- Dip the cloth in neutral detergent if dirt cannot be eliminated with a dry cloth alone.
- Do not use volatile liquids (such as petrol, alcohol, solvents, etc.) or chemically treated clothes to clean the device to prevent deformation, deterioration or scratches to the paint finish.

1.3.5 HARD DISK

- The hard disk installed in this device is sensitive to shocks, differences in temperature and vibrations. Disrespect of these precautions can compromise correct operation of the device and loss of data stored on the hard disk.
- If repairs are required, it is advisable to backup all important data before taking the device to the service centre. URMET Domus S.p.A. is not liable for loss of stored data.

1.3.6 IMAGE RECORDING

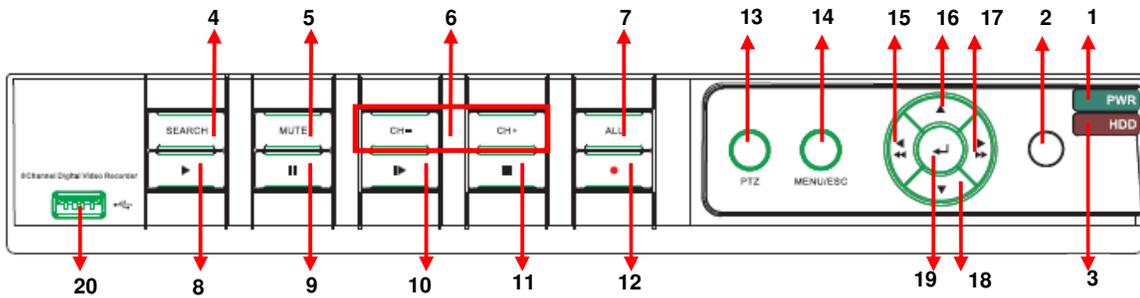
- This device was designed to record images, not as a burglar alarm. URMET S.p.A. cannot be held liable for loss or damage following theft sustained by the user.
- Make a test recording before using the device to make sure that is working correctly. Please note that URMET Domus S.p.A. is not liable for loss of stored data consequent to loss or damage caused by incorrect observation installation, use, improper use or malfunctioning of the device.
- This device contains precision electronic components. Protect the device from shocks to ensure correct recording of images.

1.3.7 PRIVACY AND COPYRIGHT

- The 1093/004H – 1093/008H - 1093/016H – 1093/018H – 1093/019H digital video recorder is a device for CCTV systems. Recording of images is subject to the laws in force in your country. Recording of images protected by copyright is forbidden.
- Product users shall be responsible for checking and respecting all local rules and regulations concerning monitoring and recording video signals. The manufacturing SHALL NOT BE LIABLE for use of this product not in compliance with the laws in force.

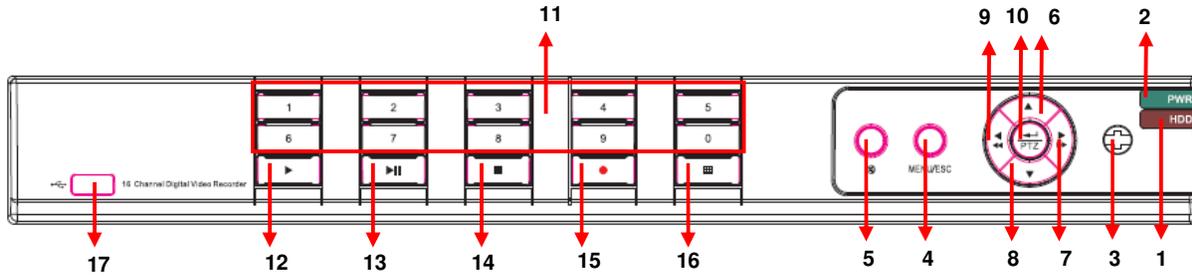
1.4 FRONT PANEL

1.4.1 REF. 1093/004H-008H-016H DVR FRONT PANEL



Item	Key title or Indicator	Remark	Function & Description
1	Power Indicator	PWR	If the "Green" indicator is on the system is getting power normally.
2	IR Receiver	○	Receives IR signal from Remote Controller
3	HDD Indicator	HDD	When the "Red" indicator flashes it means the hard drive is being read or written to.
4	Search Video File	SEARCH	Search Video File
5	Disable Audio	MUTE	Disable Audio
6	Channel select: CH- CH+	CH - CH +	CH select key
7	ALL	ALL	Monitor in QUAD/nineth/ sixteenth Mode
8	PLAY	▶	Enter into Pop-up Menu; Play record file.
9	PAUSE		Pause / play frame by frame manually
10	By frame	▶	Play frame by frame
11	STOP	■	Stop playing or stop manual record
12	REC	●	Press the button to start manual record.
13	PTZ	PTZ	Enter into PTZ Mode
14	MENU	MENU/ESC	Enter into Main menu, exit or stop playing
15	Left Key / Rew	◀ ◀◀	Enter into Main menu, exit or stop playing / Move to left; Rewind function; decrease PTZ rotation speed and parameter value / Selection Monitor BNC and HDMI or VGA.
16	Up key	▲	Move up
17	Right Key / Fast Forward	▶ ▶▶	select [Enter] / [Edit] operation / Right key, F. Forward key; increase PTZ rotation speed and Parameter value.
18	Down key	▼	Move down
19	ENTER	↵	Select [Enter] / [Edit] operation
20	USB Port		Connect to USB2.0 port

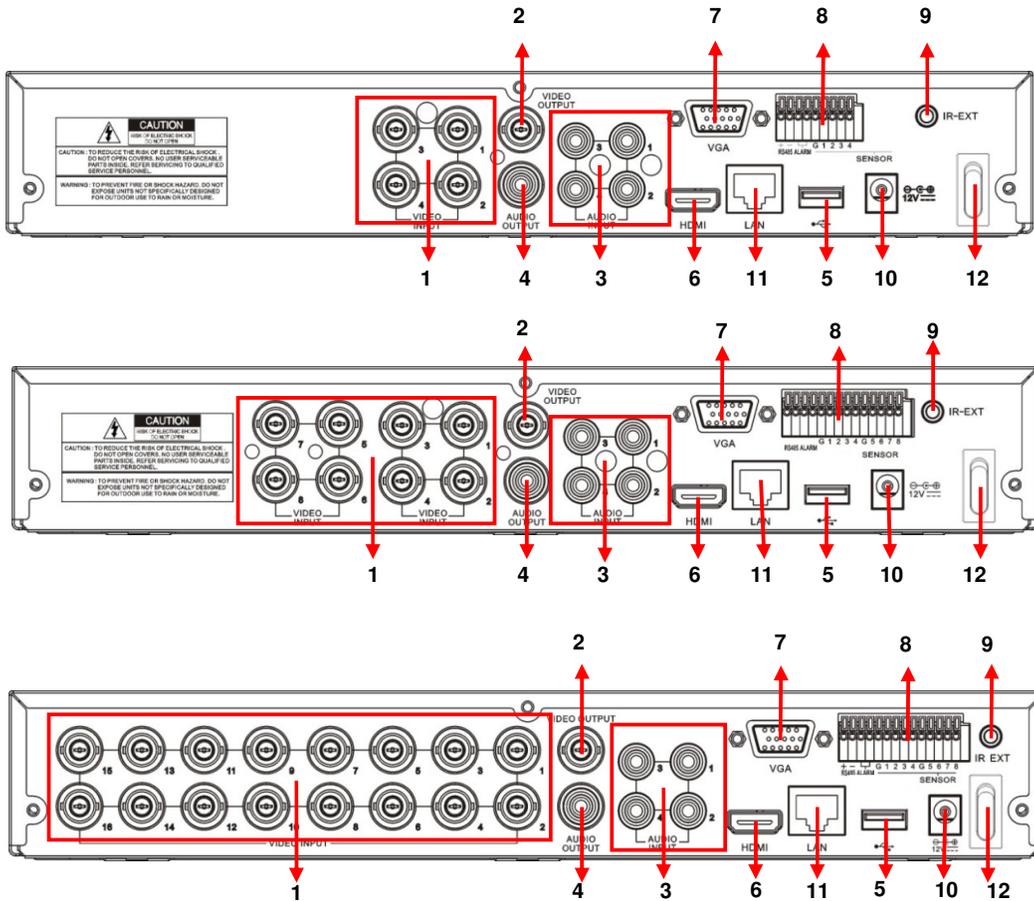
1.4.2 REF. 1093/018H-019H DVR FRONT PANEL



Item	Type	Key title /Indicator	Marks	Function
1	Indicator	HDD indicator	HDD	When the "Red" indicator flashes it means the hard drive is being read or written to.
2		Power indicator	PWR	If the "Green" indicator is on the system is getting power normally.
3	IR Receiver		●	Receives IR signal from Remote Control
4	Complex Key	Menu	MENU/ESC	Enter into main menu / Exit
5		Mute	⊘	Open or close audio input
6	Direction Key	UP	▲	Move up
7		RIGHT	▶/▶▶	Move right / FWD
8		DOWN	▼	Move down
9		LEFT	◀/◀◀	Move left / RWD
10		ENTER	↵ PTZ	Enter into PTZ control, select [Enter] / [Edit] operation
11	Channel Select & numeric input	Single Channel and numeric key	Numeric key 0,1-9 and CH key CH1~9	<ol style="list-style-type: none"> Number 1~9 stand for numeric 1~9 and CH 1~9. CH11-CH16 select method: press firstly numeric key 1 and then other numeric key. For example CH16 select firstly press 1, and then press 6. Holding press key 0 for three seconds may convert current output device
12	Play Control	Play	▶	Convert to play status
13		Play/Pause	▶	Convert to play/ pause status
14		Stop	■	Stop playing and stop manual record
15		Manual record	●	Press the button to start manual record.
16		Multi Display	⊞	Live display Quad mode, 9-split and 16-split mode
17		USB Port		Connect to USB2.0 port

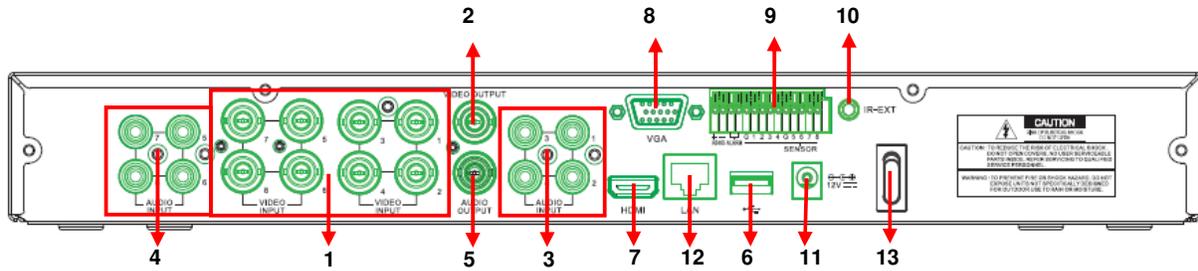
1.5 REAR PANEL

1.5.1 REF. 1093/004H-008H-016H DVR BACK PANEL



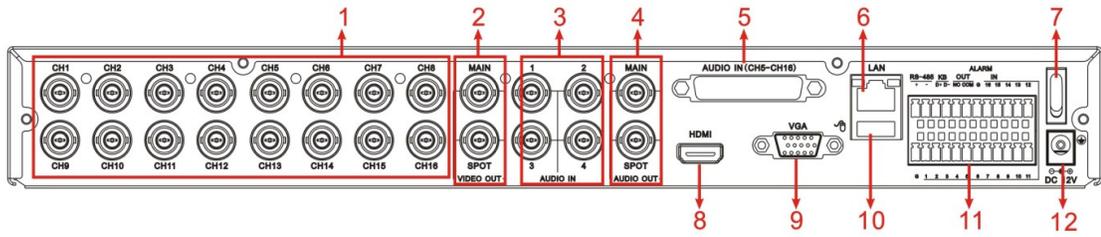
Item	Physical port	Connection method
1	Video input	Connect CH1-4 for DVR Ref. 1093/004H, CH1-8 for DVR Re. 1093/008H, CH 1-16 for DVR Ref. 1093/016H (Virtual) video input device (BNC interface)
2	Video output	Connect monitor output (BNC interface)
3	Audio Input	4CH audio input (RCA interface);
4	Audio Output	Audio output (RCA interface);
5	USB Port	Connect USB mouse
6	HDMI Port	Connect to HDMI monitor
7	VGA Port	Connect to VGA monitor, such as PC monitor
8	PIN RS485/ Sensor Alarms	RS485/Sensor/Alarm interface (see pin outs below)
9	IR-EXT	For IR ext Remote Control (for future use)
10	Power Port	Connect power supply - DC12V 2A
11	Ethernet Port	Connect LAN, Ethernet (RJ45 interface)
12	Power Switch	Turn Power on and off

1.5.2 REF. 1093/018H DVR BACK PANEL



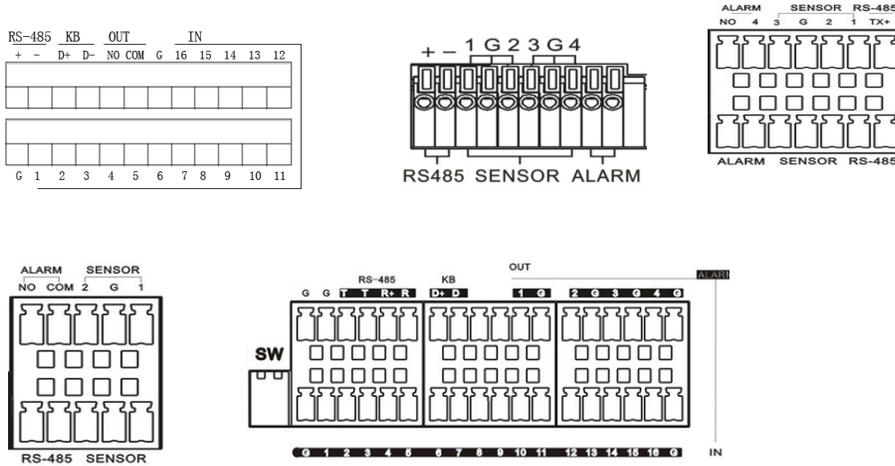
Item	Physical port	Connection method
1	Video input	CH1-8 (Virtual) video input device (BNC interface)
2	Video output	Connect monitor output(BNC interface)
3	Audio Input	CH1-CH4 audio input (RCA interface);
4	Audio Input	CH5-CH8 audio input (RCA interface);
5	Audio Output	Audio output (RCA interface);
6	USB Port	Connect USB mouse
7	HDMI Port	Connect to HDMI monitor
8	VGA Port	Connect to VGA monitor, such as PC monitor
9	PIN RS485/ Sensor Alarms	RS485/Sensor/Alarm interface (see pin outs below)
10	IR-EXT	For IR ext Remote Control (for future use)
11	Power Port	Connect power supply - DC12V 5A
12	Ethernet Port	Connect LAN, Ethernet (RJ45 interface)
13	Power Switch	Turn Power on and off

1.5.3 REF. 1093/019H DVR BACK PANEL



Item	Physical port	Connection method
1	Video input	Connect CH1-16 (Virtual) video input (BNC interface)
2	Video output	(UP) Main video output; (Down) Spot output (BNC interface)
3	Audio input	Connect CH1-4 audio signal input (BNC interface)
4	Audio output	Connect audio signal output, including spot main audio output and sequence audio output (BNC interface)
5	Audio input	Connect (CH5~CH16) Audio input
6	Ethernet: Port	Connect LAN, Ethernet (RJ45 interface)
7	Power Switch	Turn Power on and off
8	HDMI	HDMI Output
9	VGA Port	Connect to VGA monitor, such as PC monitor
10	USB Port	Connect USB mouse
11	RS-485/Sensor/Alarm	RS485/Sensor/Alarm interface (see pin outs below)
12	Power Port	Connect power supply - DC12V 5A

1.5.4 RS485/SENSOR/ALARM PORT FUNCTIONS

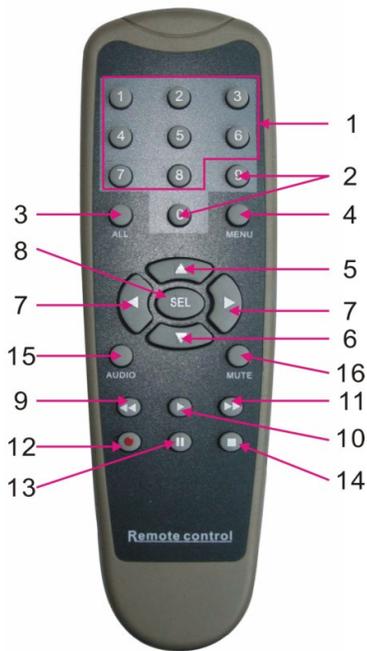


Alarm input: Connect [-] port of your sensor to G (GND) pin, and [+] port to channel input according to the alarm device you purchased.

Alarm output: Connect to the two ports marked with “out”

PTZ Port: Connect your camera to RS-485A and RS485B accordingly.

1.6 REMOTE CONTROLLER



Item	Key title	Key function
1	1-8	Channel select 1-8; Numeric key
2	9、0	Numeric key; Clicking numeric "0" allow you switch to GUI (Graphical user Interface) function
3	ALL	Multiple display mode
4	Menu	Enter into Main menu/Exit
5	▲	Up arrow key, Volume adjust
6	▼	Down arrow key, Volume adjust
7	◀/▶	Left/Down key, Decrease/increase parameter value of control bar
8	SEL	Select key/Edit key; Confirm the selected operation.
9	◀◀	Rewind key
10	▶	Enter into record search menu; Play key
11	▶▶	Forward key
12	●	Record key
13		Pause/Sequence key
14	■	Stop manual record; stop playing
15	Audio	Testing
16	Mute	Mute on/off

1.7 REMOTE CONTROLLER FOR REF. 1093/019H



Key Title	Key Function
REC	Press the button to enter into manual record.
SEARCH	Press the button to enter into record search menu
2×2	Enter into Quad display
3×3	Enter into 9-split display
4×4	Enter into 16-split display
AUTO	Enter into dwell time display
0~9	Channel select; numeric key
DISPLAY MODE	Multiple CH display (Quad, 9-split, 16-split and full screen display)
▲	Up direction key
▼	Down direction key
◀ / ▶	Left/right direction key; also decrease/increase parameter value of control bar.
ENTER	select [Enter] / [Edit] operation
Menu/ESC	Enter into/exit Main menu
PIP	PIP display mode
MUTE	Mute key
FWD	Forward (x2、 x4、 x8)
REW	Rewind (x2、 x4、 x8)
PLAY	Enter into record search, play record event
STOP	Stop play / manual play
PAUSE/ FRAME	Pause / play frame by frame
SLOW	(1/2、 1/4、 1/8) Slow play
Z+	Zoom out video area
Z-	Zoom in video area
F+	Extend focus
F-	Extend focus
I+	Increase PTZ brightness
I-	Decrease PTZ brightness
PTZ	Allow you set preset bit and control PTZ.
LOCK	Lock system

1.8 MOUSE OPERATION

Except using buttons of front panel or remote controller, you also can use mouse to perform system operation.

TYPE	Function
Click left key of Mouse	In menu lock mode, Enter into pop-up menu and clicking any sub menu to pop up Log-in window; on menu unlock mode, enter into pop-up menu, and then clicking left key to enter into any sub menu directly.
	After entering into main menu, clicking left key could enter into any sub menu; On [Detailed file] menu mode, clicking left key could playback one recording file.
	Change the status of check box and motion detection area.
	Clicking combo box to access pull-down menu; Click left key to stop dwell time display when dwell time display is activated.
	By clicking left key you can adjust Color control bar and volume control bar.
	Clicking combo box to access pull-down menu
Click right key of Mouse	By clicking left key you can select values in edit boxes or pull-down menu and supports Chinese word input, special symbol, numeric and character input, use instead of [Enter-  or [Backspace ]
Click right key of Mouse	In live display mode, clicking right key will display pop-up menu.
Double-click Left key of Mouse	In Main menu or sub menu mode, clicking right key will exit current menu.
Double-click Left key of Mouse	In live display or playback mode, double-clicking left key will maximize the screen.
Moving Mouse	Select menu item
Sliding Mouse	On motion mode, sliding mouse will select motion area; On [Color set] menu mode, sliding mouse will adjust color control bar and volume control bar.

1.9 CAMERA AND MONITOR CONNECTION

Connect camera cable to video input of DVR, and from video output of DVR to Monitor via BNC connector (Refer to section 1.4- (Rear Panel)); or if the camera is a PTZ speed dome, you could connect RS485 A & B to the according port of DVR respectively (refer to system figuration on Section 1.4.8).

1.10 POWER SUPPLY CONNECTION

Please only use the power adapter supplied with the DVR.

After power on please make sure the video I/O connection well, audio device with RCA cable.

2 SYSTEM INITIALIZATION



After connecting the Power cable of DVR to wall outlet and pressing the Power button on the front and/or rear panel, you will enter into the system initializing screen shown as above.

2.1 MONITOR SELECTION

This Function allows to control the OSD Menu, switching BNC video Output and HDMI/VGA Video Output. It is possible to switch the OSD Menu on video Output by DVR Front Panel:

- Press and Hold "◀" **REWIND** Button (i.e. the Selection Button in right position of DVR Front Panel) for DVR Models Ref. **1093/004H**, Ref. **1093/008H** and Ref. **1093/016H**. Release the button after audible warning.
- Press and Hold "0" Button (Numeric Button on DVR Front Panel) for DVR Models Ref. **1093/018H** and Ref. **1093/019H**. Release the button after audible warning.

It is also possible to switch the OSD Menu on video Output by Remote Control (i.e. Selecting **0 Button**), or select by mouse the icon  from pop-up Menu (i.e. last icon on the right bottom of pop-up Menu displayed in the screen).

Wait till that the mouse pointer is displayed on Monitor.

2.2 LIVE INTERFACE AND POP-UP MENU

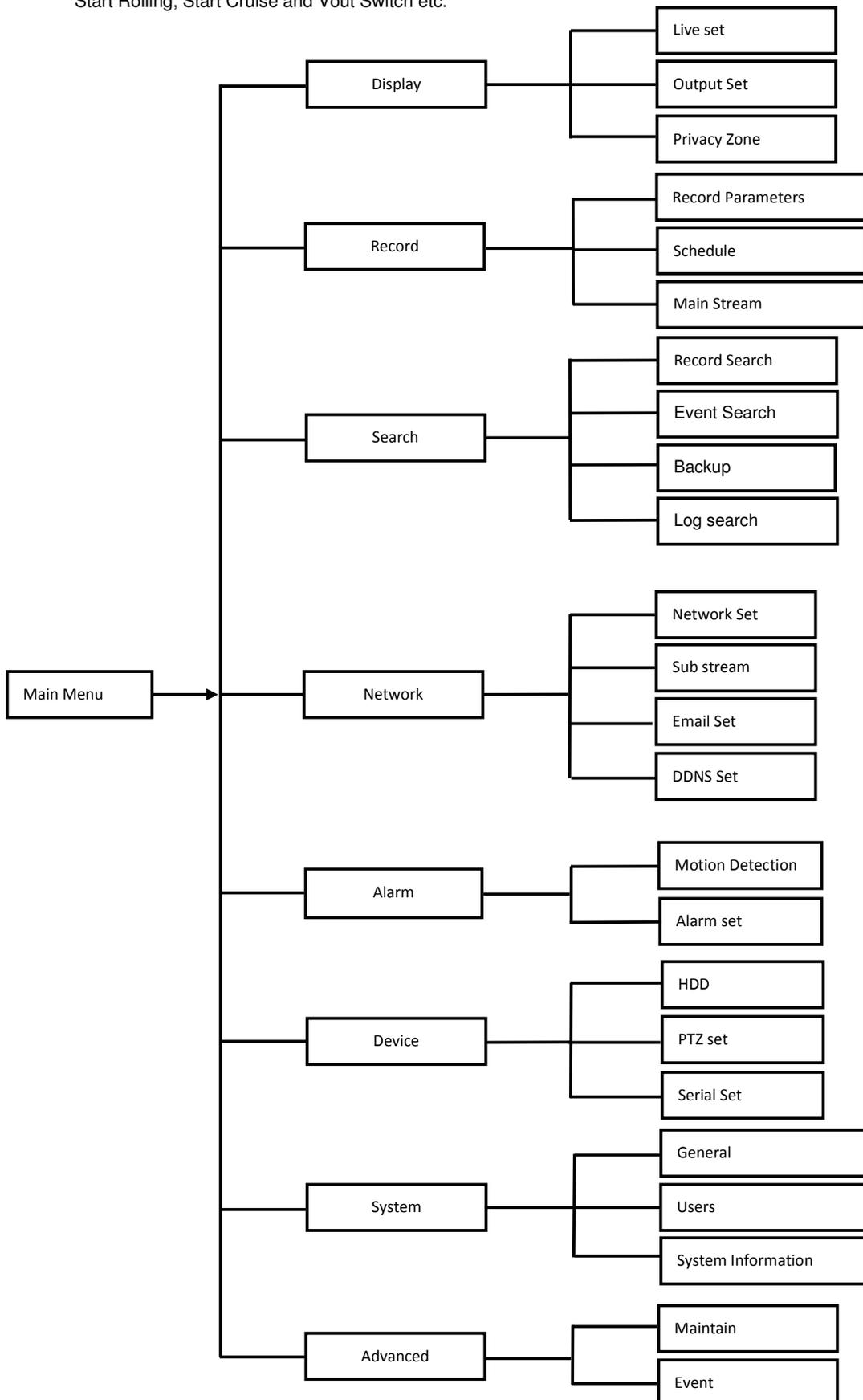


After finishing initialization the system will enter into <Live> screen. The Picture above is the Multi-split display defaulted by system, which is showing no video input status. Once there are video inputs, the screen will display live images from the cameras. In Live mode, if you use the mouse to double-click the live image of any channel, the image will be maximized to full screen, by double-clicking again, image will be come back to Multi-split display mode; After finishing system initialization, click right key of mouse on main interface mode to enter into Pop-up Menu. Now you could proceed parameter setting and operate for Main Menu, Menu Lock (if password is enabled), Multi-Screen Display Mode, Video Search, PTZ Control, Start record, Stop Record, Start Cruise after successful PTZ parameter setting, Start Sequence, PIP Mode, Volume, Reboot, Shut Down, Vout Switch. Clicking the left button of the mouse allows you select menu items; and clicking any area outside the menu allows you exit the Pop-up menu.

Note: When internal HDD is not connected or an error occurs, the character “H” will appear on the first channel of the live screen and it could sound the buzzer alarm. If you want to close the buzzer alarm, please enter into [Main menu→Alarm] to set HDD loss, HDD space not enough and alarm output to “off”

2.3 MAIN MENU GUIDE

After finishing system initialization, click right key of mouse on main interface mode to enter into Pop-up Menu. Now you could perform parameter setting and operate on Main Menu, Multi-Pics, PTZ, PIP, Rec. Search, Mute, Manual record, Start Rolling, Start Cruise and Vout Switch etc.



2.4 MAIN MENU

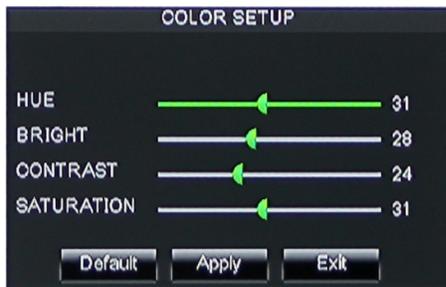


On <Live> mode, click [Menu] button on the front panel or Remote controller to enter into Main menu interface shown as above. And also you can click [Home] icon to enter the main menu screen. In Main Menu mode, you can control device management settings, such as Display, Record, Network, Search, Device, System and Advanced setting etc.

2.4.1 DISPLAY

2.4.1.1 Live mode

Go to <Main menu>Display→Live> option and enter into the <Display> setting interface shown as below.



- **Channel:** allow you setup the channel you desired.
- **Name:** allow you setup the channel name, and system support up to eight characters or four Chinese characters.
- **Position:** allow you setup the display position of each channel.
- **Color:** Click [Setup] option to enter into the [Color setup] interface shown as above.
- **Live Channel:** allow you enable the Channel in Live surveillance screen.
- **Show time:** allow you enable system time appear in the <Live> screen.
- **Record time:** When set to “Enable”, you are allowed to record system time into the record history.
- **Copy:** allow you copy all data of one channel to any other one

Above Picture is the Color Menu where you can adjust image brightness, saturation, contrast and hue parameters of each channel.

Explanation

1. The modifications will be available after clicking [APPLY] button on the bottom of the sub-menu windows and being prompted to save and then clicking [ok] button.
2. If you want to cancel the modification, click [Exit] button to exit the menu.
3. When clicking [DEFAULT] button, all system default values will be reset to default value.
4. System default value indicates the value pre-set at the factory.

2.4.1.2 Output mode

Click [Live] to pop up the interface shown as below. Now you could perform channel sequence setting. Go to [Main menu→Display→Output] to enter into the output set interface shown as below.

Click [LIVE-OUT] in the Video Output option and set relative parameters shown as below for Main Video Output.



Click [SPOT-OUT] in the Video Output option and set relative parameters shown as below for Spot Video Output.



NOTE: These screenshots are referred to Ref. 1093/019H

- **Video output:** Support CVBS output Main and Spot mode simultaneously (i.e. Spot Output is available only for **Ref. 1093/019H**). LIVE -OUT is main video output, and SPOT-OUT is auxiliary video output.
- **SPOT Audio (if available in DVR Model):** It is possible to disable or enable this option for channel.
- **View Setup:** if this option is enabled, the user can set the channels sequence for View Mode Option.
- **SEQ Time (this option is available if View Setup option is disabled):** Seq Time option is set as 5 seconds default. User can change the option as per request. The minimum time that can be set is 3 seconds.
- **View Mode (this option is available if View Setup option is enabled):** It is possible to set the Display Live Mode for Main Video Output and Spot Video Output:
 - Live output: display window will include Single, Quad, 9-split and 16-split mode;
 - Spot output (if available): display window will include Single, Quad and 9-split mode;
 Clicking on "Define SEQ Setting" is possible to set the sort about channels grid.
- **VGA/HDMI Resolution:** allow you select VGA or HDMI output, including 800x600, 1024x768, 1280x1024, 1440x900 and 1920x1080.
- **Video Out Control:** includes the following options:
 - HDMI: it is possible to upload the Menu Control settings when DVR is powered on for HDMI or VGA Video Output.
 - VOUT: it is possible to upload the Menu Control settings when DVR is powered on for Main BNC Video Output.
 - AUTO: it is possible to upload the Menu Control settings automatically when DVR is powered on for VGA/HDMI or Main BNC Video Output, based on Monitor Type.
- **Transparency:** allow you adjust menu's transparency, and its range is 1~128.
- **Margin:** allow you adjust the whole screen's margin. Details operations please refer to the Picture above.
- **Volume:** allow you adjust the DVR volume shown as above.



2.4.1.3 Privacy Zone

The function Allow you setup privacy zone parameters according to Picture below. Each channel could set up to four privacy zones, and please follow below steps to set:

1. Select the area no (Area 1 ~ Area 4);
2. Click [Setup] to adjust position of mask area;
3. After finishing position adjust, click right key of mouse to return back [Privacy zone] interface;
4. Click [Apply] to save the above setting.



2.4.2 RECORD SET

2.4.2.1 Record parameters

Go to [Main menu→Record→Record Para] to enter into the interface shown as below.



- **Channel:** allow you setup the channel you desired.
- **Record:** allows you set up record status (Enable/Disable) of each channel
- **Pack Duration:** indicates maximum continuous record time (15, 30, 45 and 60 min).
- **Pre-record:** Motion detection and I/O triggered record support Pre-record function.

2.4.2.2 Schedule

Click [Main Menu→Record→Schedule] to enter into the interface shown as below.



- **Channel:** This option allows you select one channel you desired. It is possible to change the channel selecting “Next”.
- **Week:** This option allows to select the week-day. It is possible to change the day selecting “Next”.
To setup weekly schedules, tick-select the box of the record status you want (Alarm, General, or No Record) and then click on each box in the schedule time line that you want this method to apply to. You can use the [Copy – To] pull-down menus and Copy button to copy settings from one day to another day or all days.

After you complete the schedule you activate it by clicking the [Apply] button.
You can also click on the Default button to use the system defaults.

Note: Under the <record> menu and <search> menu, original color stands for no record, “Red” stands for alarm record, “yellow” stands for Motion record and “Green” stands for normal record. It is possible to record simultaneously Alarm (where available), Motion and Normal Record and search the record file with “All Record” filter set.

2.4.2.3 Main Stream

Go to [Main menu→Record→Main Stream] to enter into the interface shown as below.



- **Resolution:** supports 960H Mode: WD1, WHD1, WCIF and D1 mode: D1, HD1 and CIF.
- **Frame rate:** it is possible to select the following range values: PAL: 1-25 f/s ; NTSC: 1-30 f/s. The range Frame Rate values can change depending on DVR model.
- **Bit rate:** user could select the relative value by pull-down menu.
- **Audio:** When tick-selecting the option, system will record video stream with audio simultaneously

2.4.3 SEARCH

2.4.3.1 Record Search

Click [Main Menu→Search→Record Search] to enter into the interface shown as below.



- **Channel:** allows you select the channel(s) you desire to search.
- **Date Search:** In the Video Search screen, user can search for all the records in a specific date. To execute a video search, highlight and select the date numeric field and then click a detailed time quantum of the specific date, system will start the playback from the first record of the time quantum.
- **Time Search:** In the <Search screen>, user can search for a specific date and time for a recording and view it in Playback mode. This is useful for hunting a specific recording of an incident if you know the date and time it occurred.
- **File List:** click [File List] button to enter into the [Event Search] screen shown as below, the video records for the time quantum will appear in the screen.
- **Playback Mode:** You can use the Playback Control bar to operate the Fast Forward (X2, X4 and X8), Slow play (1/2, 1/4 and 1/8 speed), Play, Pause/Frame, Rewind(X2, X4 and X8). When ending playback, DVR will return back to previous menu shown as below.
- **Play control Bar:** the play control bar will display current playing processing shown as below. When user click any time at the control bar and this point have not any record file, system will auto return back to previous menu.

2.4.3.2 Channel Select



Click [Main Menu→Search→Record search] to enter into the interface shown as above
Then tick-select the channel you want to playback; and click [Play] button to enter into the playback mode shown as above.

2.4.3.3 Event Search

Click [Main Menu→Search→Event Search] to enter into the interface shown as below.

You could highlight and double-click the desired record for playback. And you also can filter the records you want to view based on date, time, and channel and record mode search.



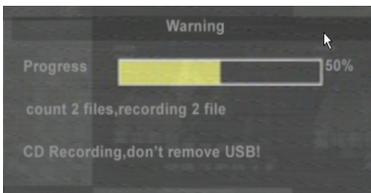
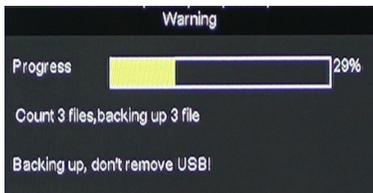
- ⏪ (First Page): go to the first page on the list. When you view other pages, clicking [First] button brings you back to Page one.
 - ⏪ (Previous page): go to the previous ones of current page. Clicking [Pre] button will take you back the previous ones of current page (except the first page).
 - ⏩ (Next page): go to the next ones of current page. Clicking the [Next] button will take you to the next ones of current page (except the last page)
 - ⏩ (Last page): go to the last page. Clicking the [last] button will make you enter into last page quickly.
- ALL (Select All): Allows you to select all the events on the current page.
Inverse (Select Invert): Allows you to select other events on the current page except those you have currently selected.

2.4.3.4 File Backup

You can back-up the record files based on event or time.

2.4.3.5 Back-up file based on event

In the [File List] mode, if you wish to backup records, please tick-select the BAK check-boxes which correspond to the records and click [Backup] button to enter into the below windows illustrated below



In the [File List] mode, if you wish to backup records, please tick-select the BAK check-boxes which correspond to the records and click [Backup] button to enter into the below windows illustrated above. Select USB as backup device and click [Apply] button, and then enter into the window shown as above. Select DVD as backup device and click [Apply] button, and then enter into the window shown as above.



After backup finished, please click [OK] button shown as below.

Note:

- File will be saved as *.264 format.
- You could playback the record files via Dvr Client player. When installing Dvrclient, system will auto install the player.
- Please make sure the back-up device connect well before backup.

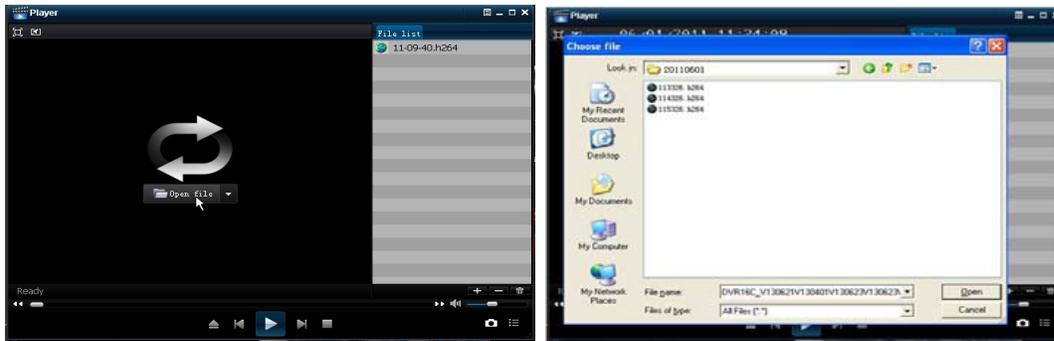
2.4.3.6 back-up file based on time

Also allow you back-up record files based on time. Please follow below steps to back up these files:

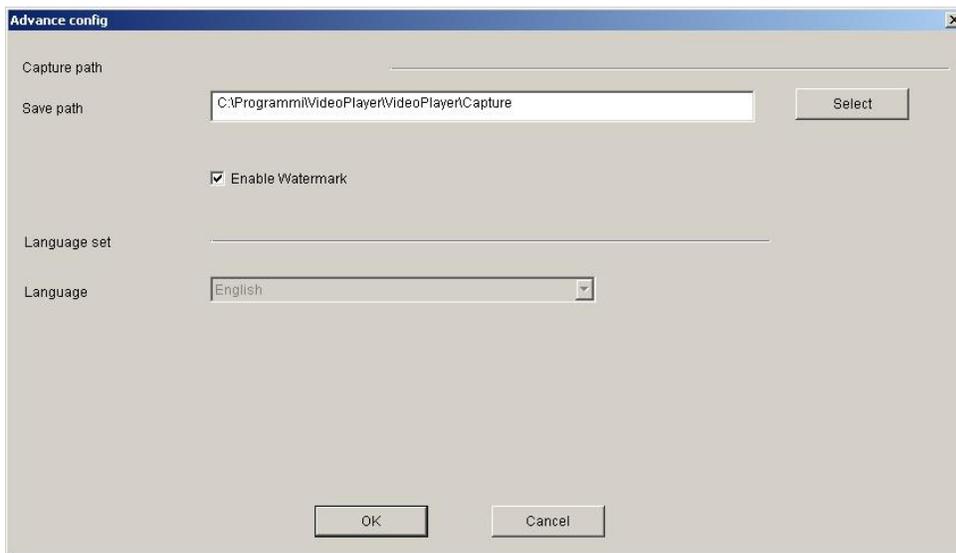
1. input start time and end time on the time edit box;
2. Click [Search] button;
3. Tick-select all the files you desire to backup;
4. Click the [Backup] on the bottom.

2.4.3.7 Media Player backup

1. Copy one backup file to your PC.
2. Open Playback player and click "+" icon or  button to find/select the backup file, and then click [open] button.
3. Highlight the file you have selected and click [Play] button.



-  : Play button: click the icon to playback the backup record;
-  : Pause button: click the icon to pause the backup record;
-  : Stop button: click the icon to stop the backup record;
-  : Next: Click the icon to play next record;
-  : Prev.: Click the icon to play previous record
-  : Slow button: click the icon to play the backup record at 1/2, 1/4, 1/8 and 1/16 speed.
-  : FF button: click the icon to fast forward the backup record at x2, x4, x8 and/or x16 speed.
-  : Open: click the icon to open one record file.
-  : click the icon to enter into full screen mode.
-  : Click the icon to never place one target to top.
-  : Click the icon to place one target to top.
-  : Click the icon to place the playing record to top.
-  : Snapshot button: click the icon to capture the live image and save the captured one to directory:\\video client\capture.
-  : Volume Adjust: click the icon to adjust the volume.
-  : Add fold or file to player.
-  : Delete one file in the list
-  : Delete all the files in the list
-  : Unfold or fold the list files
-  : Advance Configuration: click the icon to set the capture path, Enable Watermark and language (if available) shown as below.



2.4.3.8 Log Search

Go to [Main menu→Search→Log] option to enter into the Log search interface shown as below.

Herein allow you preview the log information you have searched. And click [Backup] to export all the log information which is listed. For other button functions please refer to previous section 2.4.3.3 - Event Search.



2.4.4 NETWORK

2.4.4.1 Network set

Click [Main menu→ Network→Network] to enter into the below interface shown as below.



After selecting network mode - such as DHCP, PPPOE or static allocation- and setting up ports, you can visit DVR remotely through a network or internet.

Here follow the most Features enclosed in Network OSD Menu:

- **Encryption:** Users can enable or disable the encryption function. When the option is enabled, the DVR encrypts data for transmission through the Network. The DVR uses a proprietary encryption algorithm, so data can be decrypted by the DVR IE ActiveX and by the DVR CMS only.

- **UPnP (Universal Plug and Play) function:** If router supports UPnP function and set <UPnP> to “On”, system will automatically forward port to router.
- **DNS Function:** DNS server is generally provided by local ISP. Herein please enter the IP address of your DNS.
- **Mobile Port:** The default value is 18600. It can be set in the range values from 1024 to 65535.

The DVR is currently compatible with mobile phones running Android, Windows Mobile, Symbian operating systems, iOS and Blackberry on 3G networks.

Note:

- The server port could not duplicate the port you have set to network set.
- In order to login as admin, set to Mobile phone the External Mobile Port value on the Router and set the default password **123456** or the same customized password in System User screen.



When selecting **DHCP** from the Type, A router will automatically allocate IP address for your DVR. After restarting each time, the IP address captured by your DVR may be different. So, port forwarding is required when you visit a remote DVR.

1. Select DHCP and click [Save] button;
2. Exit and restart DVR;
3. Input Client port (for example **9000**) and web or http port (for example **80**);
4. Set Mobile Port
5. Set IP address captured by DVR and web port to a router
6. Visit a remote DVR <http://public net IP:web port> (such as: 80) or <http://intranet IP:web port> (such as: 80 - only use for Intranet)
7. Input the IP address of your domain name server



When selecting **Static** from the Type, user can directly input IP address, Subnet Mask, Gateway and DNS shown as above.

1. Set your net type to Static;
2. Set Client port number (such as **9000**).
3. Input web port or http port number (such as **80**).
4. Set Mobile Port
5. Input a specified IP address to [IP address] column;
6. The Subnet Mask, gateway and DNS server should be consistent with your router’s configurations.
7. Input DNS address. Please check router firstly. The setting should be consistent with router’s
8. Click [Apply] button
9. Now you could remotely visit the DVR via <http:// public net IP: web port> (such as: 80) or <http://intranet IP: web port> (such as: 80 - only use for Intranet)



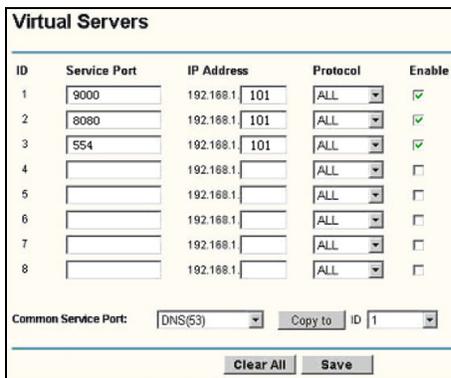
When selecting PPPoE form the Type, user can input user name and password provided by ISP and set Media and Web port. And now you can visit your remote DVR by using the IP address captured after registering a domain name and web port and connect to your DVR via public network.

Friendly Reminder:

- All the parameters you set are available only when you click [Apply] and after system are restarted.

2.4.4.2 Router's Port Forwarding

Port forwarding is required when you want to access the DVR connected to the router from outside of the router's network. If PPPoE is selected, port forwarding is not required.



1. Input router's IP address from IE-based browser to open the Router configuration interface shown as above;
2. Click [Transmittal rule] option to take you to the port forwarding instructions for your router;
3. The DVR IP address for the intranet should be <192.168.1.101>, you should forward server port and web port to this IP address respectively.
4. Now user can visit the DVR remotely.

Friendly Reminder: The router's port forwarding interface may be different, however, when entering into virtual server, user will always need forward port (range: 1025~65535) of router to IP address of DVR allocated or automatically captured, and select [All] or [Both] in corresponding protocol column and save the above setting. Above steps may differ from the router device depending on the manufacturer.

2.4.4.3 Sub stream

Go to [Main menu→Network→Sub Stream] to enter into the interface shown as below:



- **Video:** allow you open or close the sub stream output in **CIF Resolution**. If you select "Enable" system will select sub-stream preview and guarantee image quality once network is unstable.

- **Frame rate:** allow you set net transmittal frame rate. User could select the relative value by pull-down menu.
- **Bit rate:** allow you set net transmittal bit rate. User could select the relative value by pull-down menu.
- **Audio:** When tick-selecting the option, system will record video and audio simultaneously.

Note:

In Sub Stream it is possible to set a max. Frame Rate value up to 5FPS for all channels, except for a single channel where it is possible to set the max. Frame rate value up to 25FPS.

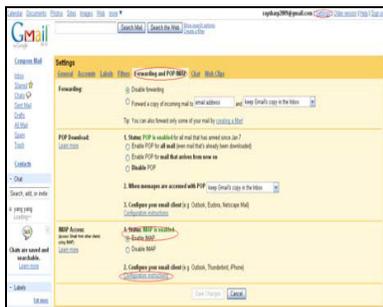
2.4.4.4 Email set

Click [Main Menu→Network→Email] option to enter into the email set interface shown as below.



SSL: is a security link transport protocol. You can encrypt your communication info (including your email) using SSL to prevent hackers from monitoring your email or communication info and even your password.

Please set SSL to “On” via Gmail.com server, and set to “Off” via other mail server.



Click [Main menu→Network→Mobile] to enter into the [Mobile] interface shown as Mobile Picture in 2.4.4.5 Section.

User Name: indicate user name of DVR, and support numbers and characters and 1~15 bits length

User password: indicate user password of DVR, and also support numbers and characters and 1~15 bits length

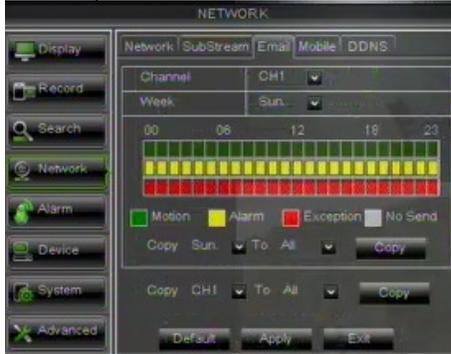
Server port: Mobile monitoring port. Setting range is between 1024 and 65535.

- **SMTP Port:** indicate one kind of mail transmittal port opened by Simple Message Transfer Protocol (SMTP). The port number for most mails is 25 except such as Gmail server (Port No.: 465).
- **SMTP server:** indicates server address you used.
- **Sender address:** indicates sender’s email address. The email address should be consistent with the server you use. That is to say, when you use email address – aaa@gmail.com, the according server should be smtp.gmail.com.
- **Sender Pwd:** Set the Password assigned to the sender Email Account.
- **Receiver address:** indicates receiver’s email address. The email address is used to receive image transmitted from DVR alarm. Please clear the images you have received as soon as possible to avoid overloading your email account.
- **Interval:** It is possible to set the minutes value that the Email is sent with attachments.

Note:

When configuring the messages sent via e-mail (Main menu → Devices → Alarms), to ensure the correct operation it is suggested to configure a user account (that is sender address and password) with the same address as the SMTP Server. For example, if an address like mario.rossi@dominio.it is used, the SMTP must be “smtp.dominio.it”.

It is possible to schedule the sent Emails for Channel and Weekday about Events Detection (i.e. Motion, Alarm or Exceptions) as shown in picture below:



2.4.4.5 DDNS Set

DDNS (Dynamic DNS) is a service that register a domain name and the floating IP address with the DDNS server so that the domain name can be routed to the IP address even if the IP address is changed in a dynamic IP system. User can visit a remote DVR by using DDNS on above three types (Static, DHCP and PPPoE)



You can apply for a DDNS account for free at the web www.3322.org, www.changeip.com or www.no-ip.com or DDNS Account for payment at the web www.dyndns.org.

You can register on DDNS Service website and get a domain name, user name, and password.

- **Server:** select DDNS provider
- **Host name:** input the host domain name you have registered at dynamic domain name system, such as: changeip.com;
- **User Name:** Input a user name registered before applying for a domain name;
- **Password:** Input a password you set when registering a user name.

Click [Apply] button and restart the DVR; and then enter the domain name (such as: <http://no-ip.com:8080>) to visit your remote DVR.

Note: In the future the DDNS Accounts creation could switch to payment service.

2.4.4.6 Mobile Viewer's Access Instruction

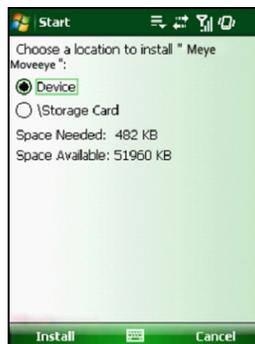
The DVR is currently compatible with mobile phones running Windows Mobile, Symbian, iOS, Blackberry and Androids operating systems. Below are these Mobile Viewer's installation procedures.

2.4.4.6.1 Windows Mobile

- 1) First you need to copy a program named as "Aseesetup.CAB" that is included on the CD provided by the DVR to the mobile phone.



Picture 1



Picture 2

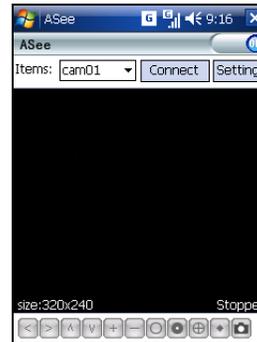


Picture 3

- 2) Click the program “Aseesetup” shown as Picture 1 and choose an installation location shown as Picture 3 after the initialization.
- 3) Click [Install] button to start the installation processing shown as Picture 2.
- 4) After finishing the installation, click the icon named “Asee” shown as Picture 4 to run the program.
- 5) Now you are allowed to enter into the program screen shown as Picture 5.



Picture 4



Picture 5

- **CH:** click [Pull-down] menu to select the channel you need to monitor.
- **Connect:** click the button to enter into the live image of the channel you selected
- **Setup:** click the button to allow you set parameter of the mobile viewer.
- **Function buttons in the bottom from Left to right in turn are:** PTZ Direction (left,right, up, down). Area Selection: (ZOOM+, ZOOM-) Focus: (focus +, focus-) Iris (Iris+, Iris -) Snapshot.

Note:

- Please firstly make sure you have right PTZ parameter setting (details please refer to User Manual-Section 2.4.6.2) on DVR, then you could control PTZ camera through your mobile phone. The captured images will be saved to the defaulted path (Explorer→Program Files→Moveeye→Photo file).

If you use this program first time or need to change parameter settings, please click [Setup] button to enter into the window shown as Picture 6.

- **User's Name:** here indicate the user name which have been set on DVR-[Mobile Set] menu.
- **Password:** herein indicate the password which has been set on DVR-[Mobile set] menu.
- **Server:** indicate public IP address connected to DVR or dynamic domain name used by DVR
- **Port:** indicate the server port which has been set to your DVR.
- **Notes:** enter one channel number you want to monitor

Click **ok** to confirm the above setting, and system will return back the previous menu.



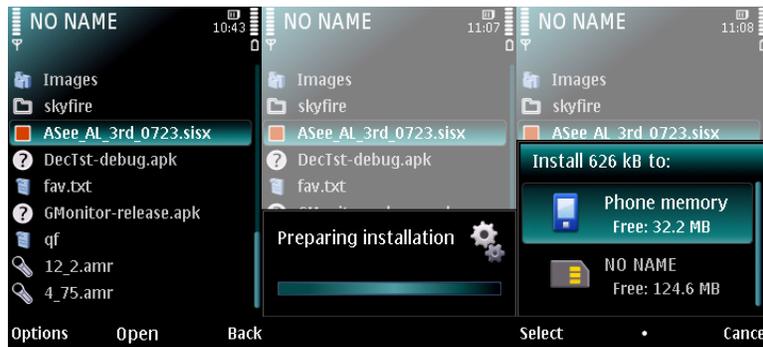
Picture 6

- **Auto-connect:** When tick-selecting [Auto-Connect] option, the mobile phone will be auto-connected to the DVR.
 - **History:** Clicking the button will allow you auto-record all the log histories.
- Click any area of screen to toggle display modes between normal view and full screen.

2.4.4.6.2 Symbian System Mobiles

- 1) First you need to copy a program named as “ASee_AL_3rd_0723.sisx” or “See_AL_5th_0723.sisx” that is included on the CD provided by the DVR to the mobile phone (shown as Picture 7). Generally the program is defaulted to save into mobile storage card.

Note: “See_AL_3rd_0723.sisx” apply to S60 - The 3rd edition operate system Mobile, and “See_AL_5th_0723.sisx” to S60 - The 5th edition operate system Mobile



Picture 7

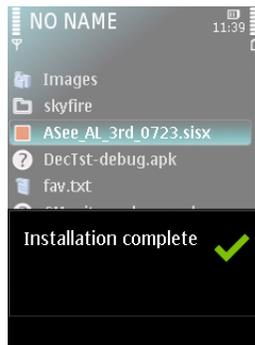
Picture 8

Picture 9

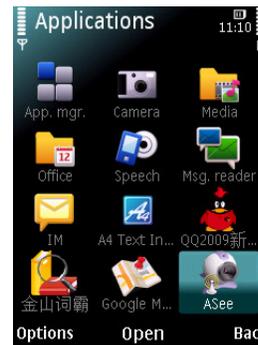
- 2) Click the program "ASee_AL_3rd_0723.sisx" to start the installation shown as Picture 8
- 3) Choose Phone memory or SD card as an installation location shown as Picture 9.
- 4) Click [Continue] button to make sure the application program you installed may visit network or dial phone when popping-up the dialog box shown as Picture 10.
- 5) After successful installation system will prompt you "Installation finished" shown as Picture 11.
- 6) If the program is installed into SD card, please enter into "Application" menu to find [Asee] icon shown as Picture 12.



Picture 10

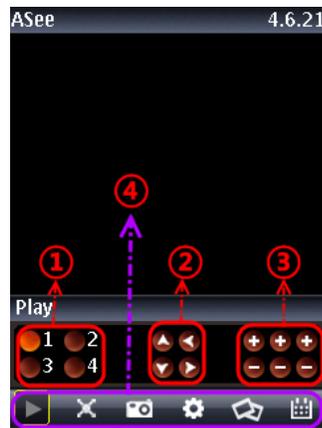


Picture 11



Picture 12

- 7) Click [Asee] icon to run the program, and then you will enter into the interface shown as Picture 13.



Picture 13

(Function buttons in the bottom in turn are:

1	CH 1, CH 2, CH3, CH 4
2	PTZ Direction :left, right, up, down
3	PTZ Lens control: Focus+/-, Zoom+/- and Iris+/- from left to right in turn.
4	Play Bar: Play/Pause, Full screen, Snapshot, Setup, Next CHs Group and Quit button from left to right in turn

Note: The snapshot images will be saved to the defaulted path-"File manager\Images".

- 8) For first time using or Need some change on the Parameters, click the [Setup] button and you will enter into the window shown as Picture 14; or click [Play] button to enter into live display.



Picture 14

- > **Address:** herein indicate public IP address connected to DVR or dynamic domain name used by DVR.
- > **Port:** indicate the server port which has been set to your DVR.
- > **User's Name:** here in input the user name which has been set on DVR-[Mobile Set] menu.
- > **Password:** herein input the password which has been set on DVR-[Mobile Set] menu.
- > **Channel:** select one channel you want to monitor
- > **User Defined:** Enter channel title named by you.
- > **Option:** include playback list and history list

2.4.4.6.3 iOS Mobile

About iOS Platform are available 2 App. Asee Software Mobile that use Mobile Port and iUVS Software that use Data Port. Here follow the App description:

Asee Software Mobile

- 1) Visit Apple website <http://www.apple.com/itunes/> to download & install the iTunes program.
- 2) Run the iTunes program, and then click the Menu- [Store→Search] to enter into its sub-menu.
- 3) On the [Search] mode, enter the characters "ASee" to search the program "ASee".
- 4) Download and install the "ASee" program.
- 5) After finishing installation, [ASee] icon will be displayed to mobile phone interface shown as Picture 15.



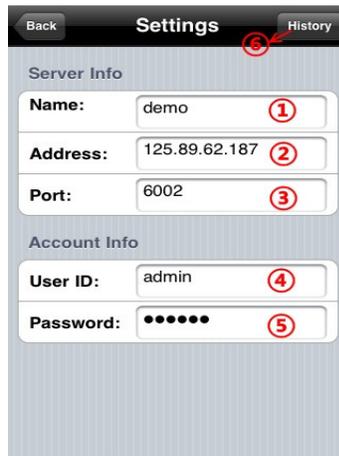
Picture 15



Picture 16

- ① Channel select
- ② PTZ Direction (left, right, up, down)
- ③ Area Selection: (ZOOM+, ZOOM-)
- ④ Focus: (focus +, focus-)
- ⑤ Aperture (I+,I -)
- ⑥ Function buttons from left to right in turn are: Play/Pause, Snapshot, setup, Next CHs Group and help.

(3) We have introduced Monitor point setting in the previous Symbian and Windows system setting. The setting method for Iphone is same as the Symbian and Windows system. Please refer to the previous section.



Picture 17

- ① Enter device title
- ② Enter IP Address of the DVR
- ③ Enter DVR web Port
- ④ Enter Username of DVR
- ⑤ Enter Password of DVR
- ⑥ Click the button to preview History record

iUVS for iOS

URMET iUVS is a mobile phone CCTV application developed for iPhone OS. It's compatible with the URMET H.264 New Dynamic & Video Smart and Evolution 2.0 DVR Series **for Firmware V3.1 or upper version.**

Features

Here follow the main features of the application:

- Live audio/video streaming of up to 4 channels
- Remote Search and Playback
- Local Playback
- PTZ function
- Snapshot and Video capture
- Multiple devices supported

Getting Start

- Download iUVS App from Apple Store and install it.
- Connect your iPhone or iPad to the internet using 3G or WiFi.
- Launch application you will brought to iUVS main menu



Add and delete device

Device manager allow you add or delete device, and also modify device properties. Tab "Device Manager" on Main Menu to open this interface as below



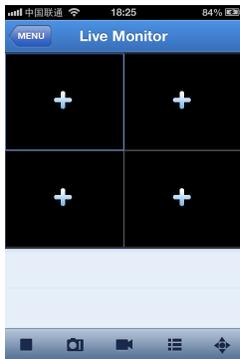
To add a new device, click "Add" button at the top right, then you can input the device name, address(IP or domain name), port, user name and password etc. The Channels property can be retrieved form device.

NOTE: It is needed to set the Data Port (i.e. 9000) for iUVS Software Mobile correct working. If the user sets the Mobile Port, iUVS Software Mobile cannot work for any reason.

To delete a device from list, swipe the device name you want to delete, then tap the delete button next to the device name.

Live video monitor

Tab Live Monitor on Main Menu will bring up Live interface, which provides stream video, record, snapshot and PTZ, etc.



1. Open a device

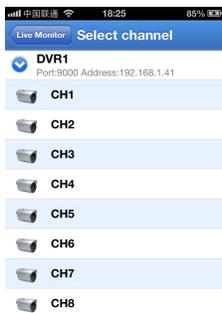


Tab  to open device list as below, then select one of devices in the list, will open all channels of it automatically.



2. Open a channel

Tab Cross button on one of the view window will enter channel list window, then select one channel to open on the previous window.



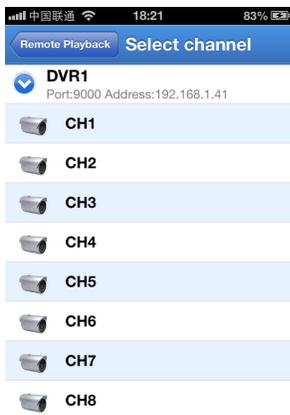
Remote Playback

Tab Remote Playback on Main Menu will show the playback entry. you will be able to play one channel of remote device after 2 steps.



1. Select one channel

Tab Select channel button to open device list as below, then select one channle of device in the list.



2. Select date

When you have selected channel, all the date with record will be mark-on dot. Just tap the date to playback one day record.

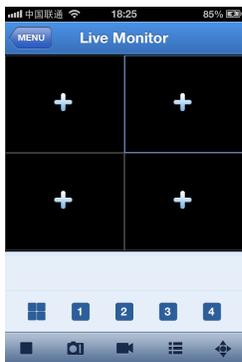


Recording streaming

You can record streaming when viewing live video. Tap  and then tap channel label on the bottom panel to start recording. It will keep recording on live page after start record, and can only record the channels which are viewing. Recording will stop if you close the channel or leave live page.

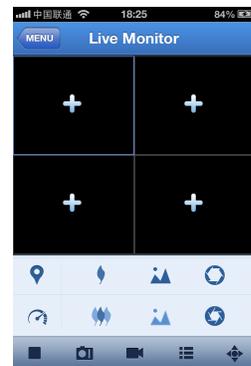
Video snapshot

On live monitoring, Tap  will show up 5 label on bottom panel, then you can take snapshots by tap the labels.



PTZ control

PTZ is Pan-Tilt-Zoom and reflects the movement options of the camera. Tap  to open PTZ mode, it will bring up PTZ control buttons on the bottom of live page.

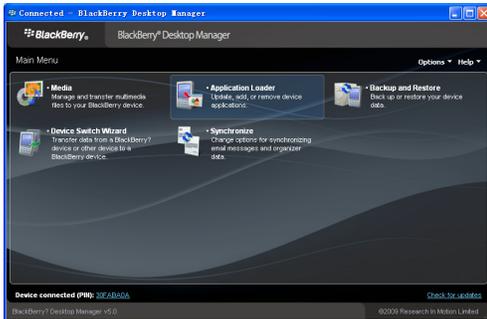


You need to Maximize a camera window and open PTZ mode to control the camera. Tap Arrows on the side of camera window to control camera move side to side or up and down. And other control buttons allow you to do Zoom, Force, Iris, PTZ speed and Preset, etc. As shown in the follow figures.

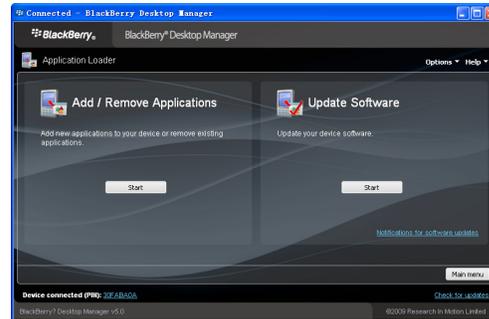


2.4.4.6.4 Blackberry mobile

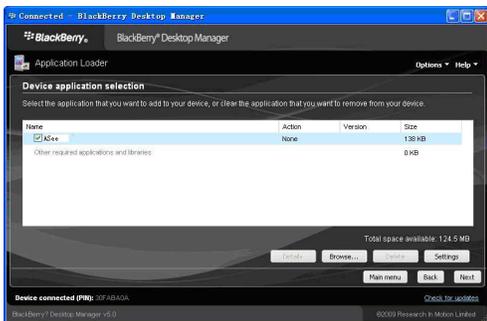
- 1) Download and install the BlackBerry Desktop Manager on your PC
- 2) Connect your Mobile to your PC via USB cable
- 3) Open the Desktop Manager
- 4) Choose [Application Loader] from the Main Menu shown as Picture 18
- 5) Click [Start] Button on the [Add/Remove application] menu shown as Picture 19
- 6) Click [browser] button and tick-select [ASee.alx] file shown as Picture 20
- 7) Click [Finish] button to finish the installation shown as Picture 21.



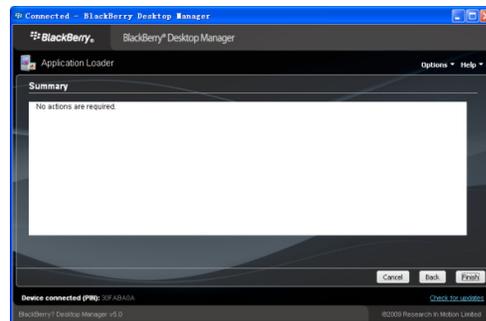
Picture 18



Picture 19



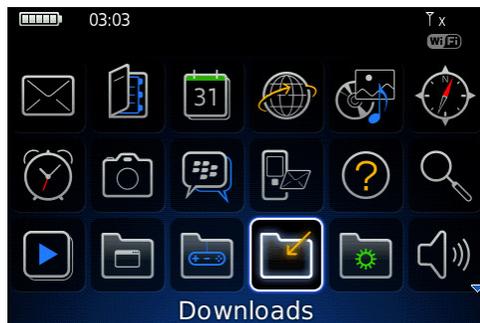
Picture 20



Picture 21

Setup and operation on the Blackberry phone viewer:

- 1) The Blackberry viewer will be installed to the [Downloads] directory shown as Picture 22.
- 2) Enter into the [Downloads] directory, and then click the [ASee] icon shown as Picture 23.



Picture 22



Picture 23

- 3) Enter into the below interface.



Picture 24

- ① Connect/Disconnect
- ② Full Screen
- ③ Snapshot

- ④ Setup
- ⑤ Help
- ⑥ Next CHs Group
- ⑦ PTZ Control

4) Enter the Monitor DVR info in the below Setup Menu□

The screenshot shows a 'Setting' menu with three sections: 'Server info', 'User info', and 'Network info'. Each section has empty input fields. At the bottom, there are 'save', 'cancel', and 'history' buttons. A 'WIFI' dropdown menu is visible in the Network info section.

Picture 25

The screenshot shows the 'Setting' menu with the following data entered:

- Server info: Name: 9008, Address: 27.42.92.74, Port: 18004
- User info: User ID: admin, Password: *****
- Network info: NetworkType: WIFI

 Buttons for 'save', 'cancel', and 'history' are at the bottom.

Picture 26

4.1 Select the Network Type supported by Blackberry phone.

The screenshot shows the 'Setting' menu with the 'NetworkType' dropdown menu open, displaying 'WIFI' and '3G' options. The other fields remain empty.

Picture 27

4.2 Click [Save] button to save the above setting, and system will return back to Live display.

4.3 Click the [History] button to enter into the History List shown as Picture 28.

4.4 Highlight one record and click [Enter] button to enter into pop up menu. When selecting [Open] option, system will directly be connected to the DVR and defaulted to display the CH1.

The screenshot shows a 'History' list with the following records:

name: d9216h
name: 9008

 A context menu is open over the first record, showing options: Open, Edit, Delete, Switch Application, Full Menu.

Picture 28

4.5 When selecting [Edit] option, system will allow you edit the history record.

4.6 When selecting [Delete] option, the history record will be deleted.



Picture 29



Picture 30

5) Click [Next Page] icon to search [Channel] option shown as Picture 31 and Picture 32, and then choose the channel you want to display.



Picture 31



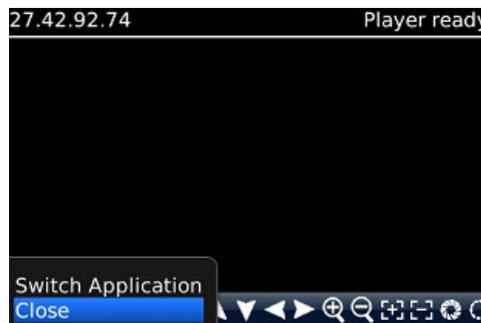
Picture 32

6) Click [Full screen] icon to enter into full screen display mode, again click the [Trackball] button of mobile to quit the full screen mode.

7) Click [Next page] button to find the [PTZ Control] icon and enter into the mode. Now you could freely control your PTZ camera through your Mobile phone.



Picture 33



Picture 34

8) Click [Help] button to view the software's Help instruction.

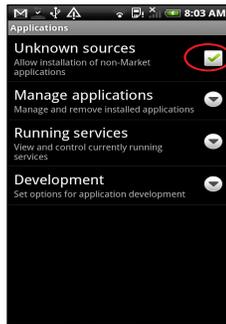
9) Click [Close] button to exit the program shown as Picture 34.

2.4.4.6.5 Android Mobile

About Android Platform are available 2 App. Asee Software Mobile that use Mobile Port and iUVS Software that use Data Port. Here follow the App description:

Please make sure the software environment support on your Android Mobile, such as Apkinstaller.

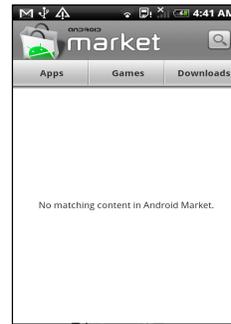
1. Make sure your mobile have been connected to network and could download the software.



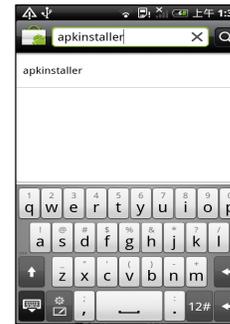
Picture 35



Picture 36



Picture 37

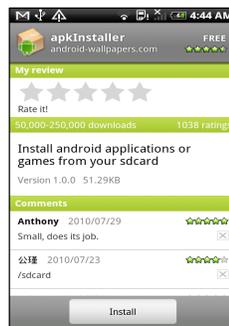


Picture 38

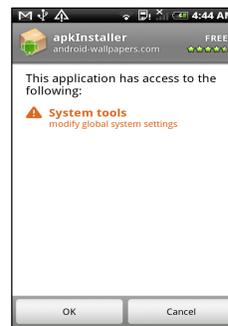
2. Enter into [Program] option and highlight [E-market] icon shown as Picture 35.
3. Enter into the [E-market] interface shown as Picture 36.
4. Click [Search] icon on the upper right corner and input "Apkinstaller" shown as Picture 37-38, to search the Apkinstaller program.



Picture 39



Picture 40



Picture 41



Picture 42

5. Highlight and install the program you searched shown as Picture 39 and Picture 40.



Picture 43



Picture 44



Picture 45



Picture 46

6. Enter into [Program] file and click [Apkinstaller] icon shown as Picture 43
7. Find the ASee.apk file you want to install shown as Picture 44
8. Click the software to install to your phone shown as Picture 45 and Picture 46.
9. Enter into [Program] option to click [ASee] icon shown as Picture 47.
10. Enter into [ASee] main interface shown as Picture 48.



Picture 47



Picture 48

1	CHs Select	2	PTZ Direction
3	Zoom+/-	4	Focus+ -
5	Iris +/-		
6	Function buttons from left to right in turn are: Play/Pause, Snapshot, setup, Next CHs Group and help.		

11. Setting Menu

Picture 49

- **Address:** Enter the IP address of the DVR
- **Port:** Enter the Mobile Port No. Of the DVR
- **Device Name:** Enter DVR name (User defined)
- **User ID:** Enter the User's Name
- **Password:** Enter the User's Password
- **History:** Click the [History] button to preview History record

Enter the testing device infos

12. Help Instructions.

13. History Record and auto-record info

iUVS for Android

URMET iUVS is a mobile phone CCTV application developed for Android. It's compatible with the URMET H.264 New Dynamic & Video Smart and Evolution 2.0 DVR Series **for Firmware V3.1 or upper version.**

Available Feature

- Live audio/video streaming of up to 4 channels
- Remote Search and Playback
- Local Playback
- PTZ function
- Snapshot and Video capture
- Multiple devices supported

Getting Start

- Download iUVS App from Play Store and install it.
- Connect your Android phone to the internet using 3G or WiFi.
- Launch application you will brought to iUVS main menu



Add and delete device

Device manager allow you add or delete device, and also modify device properties. Tab "Device Manager" on Main Menu to open this interface as below



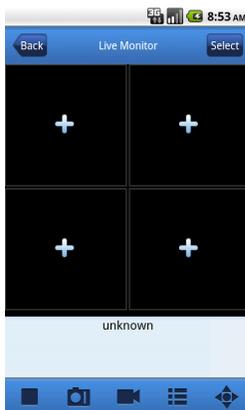
To add a new device, click "Add" button at the top right, then you can input the device name, address(IP or domain name), port, user name and password etc. The Channels property can be retrieved form device.

NOTE: It is needed to set the Data Port (i.e. 9000) for iUVS Software Mobile correct working. If the user sets the Mobile Port, iUVS Software Mobile cannot work for any reason.

To delete a device from list, swipe the device name you want to delete, then tap the delete button next to the device name.

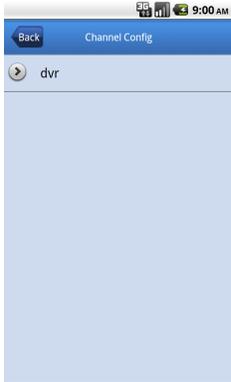
Live video monitor

Tab Live Monitor on Main Menu will bring up Live interface, which provides stream video, record, snapshot and PTZ, etc.



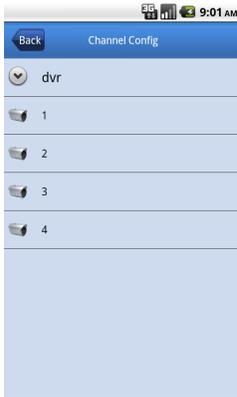
1. Open a device

Tab  to open device list as below, then select one of devices in the list, will open all channels of it automatically.



2. Open a channel

Tab Cross button on one of the view window will enter channel list window, then select one channel to open on the previous window.

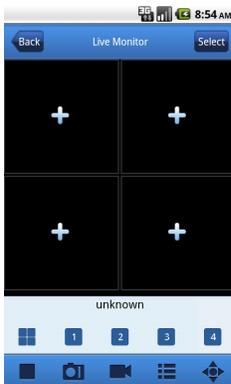


Recording streaming

You can record streaming when viewing live video. Tap  and then tap channel label on the bottom panel to start recording. It will keep recording on live page after start record, and can only record the channels which are viewing. Recording will stop if you close the channel or leave live page.

Video snapshot

On live monitoring, Tap  will show up 5 label on bottom panel, then you can take snapshots by tap the labels.



Remote Playback

Tab Remote Playback on main menu will bring up a calendar view which uses black point to presents the day of month there is Record Videos.



Press 'Select Channel' button to retrieve the Record Videos of channel from device.

PTZ control

PTZ is Pan-Tilt-Zoom and reflects the movement options of the camera. Tap  to open PTZ mode, it will bring up PTZ control buttons on the bottom of live page.



You need to Maximize a camera window and open PTZ mode to control the camera. Tap Arrows on the side of camera window to control camera move side to side or up and down. And other control buttons allow you to do Zoom, Force, Iris, PTZ speed and Preset, etc. As shown in the follow figures.



2.4.5 ALARM

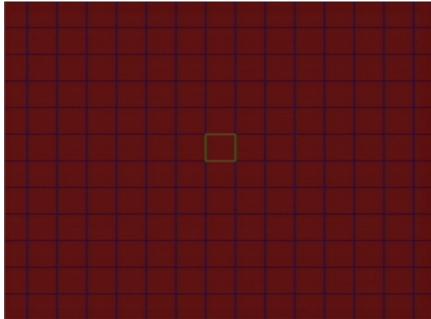
2.4.5.1 Motion

Click [Main menu→Alarm→Motion] to enter into the interface shown as below



Channel: allow you enable/disable the motion function for any channel.

- **Area:** Click the [Setup] button to enter into area setup interface shown as below.
- **Sensitivity:** allow you to set sensitivity level of motion detection from higher to low with 8 being the most sensitive.
- **Alarm Out:** allow you connect external alarm sensor.
- **Alarm Out Time:** you can set how long the external sensor alarm will last when motion is detected (10sec, 20sec, 40sec, and 60sec);
- **Show icons:** You can set show the icon on the screen when motion alarm is detected. About icons type please refer to Section 4.
- **Buzzer time:** you can set how long the buzzer will sound when motion is detected (OFF, 10sec, 20sec, 40sec, 60sec);
- **Send Email:** Allows you set the alarm images is issued to a specified email.
- **Full screen Alarm:** you can set how long the video is displayed in full screen mode when Motion is detected (OFF,1sec, 2sec, 3sec, 5sec, 7sec, 10sec, 20sec, 30sec);
- **Record Channel:** the record channel will be activated when the object move is detected.
- **Post Recording:** you can set how long alarm record will last when alarm ends (10sec, 30sec, 1min, 2min, 5min).
- **Copy:** allow you copy current channel parameters to any other channel or all channels.



The channel will be separated into a 15X12grids (PAL mode) or 15X10grids (NTSC mode). When any object moves into the motion detection area, and the area where the object is located is displayed in red and motion detection will be triggered. In the semi-transparent area the motion detection is not activated.

2.4.5.2 Alarm Set

Click [Main Menu→Alarm→Alarm] to enter into the below window shown as below. Now you can perform alarm set based on different status.



- **No:** allow you select one desired channel
- **I/O Status:** allows you select the three options – NO (Normal Open), NC (Normal Close) and OFF. Set to “Normal Open”, I/O status Alarm will be activated while sensor is ON; set to “Normal Close”, I/O status alarm will be activated while sensor is OFF; set to “OFF”, I/O status alarm will not be triggered.
- **Alarm Out:** allow you connect external alarm sensor.
- **Alarm Out Time:** you can set how long the external sensor alarm will last when sensor alarm is detected (10sec, 20sec, 40sec, and 60sec);
- **Show icons:** You can set show the icon on the screen when sensor alarm is detected. About icons type please refer to Section 4.
- **Buzzer time:** you can set how long the buzzer will sound when sensor alarm is detected (OFF, 10sec, 20sec, 40sec, 60sec);
- **Send Email:** Allows you set the alarm images is issued to a specified email.
- **Full screen Alarm:** you can set how long the video is displayed in full screen mode when sensor alarm or external alarm is detected (OFF, 1sec, 2sec, 3sec, 5sec, 7sec, 10sec, 20sec, 30sec);
- **Record Channel:** the record channel will be activated when the object move is detected.
- **Post Recording:** you can set how long alarm record will last when alarm ends (10sec, 30sec, 1min, 2min, 5min).
- **Copy:** allow you copy current channel parameters to any other channel or all channels.

Alarm Type	Function
Motion Detection	When an object moves into motion detection area, alarm will be triggered. You can adjust sensitivity level to suit the needs of your actual application environment.
I/O Status	System can convert alarm signal triggered by external sensor into signal identified by system.

2.4.6 DEVICE

2.4.6.1 HDD Set

Click [Main menu→Device→HDD] to enter into the interface shown as below.



When DVR is connected to a HDD, the system will automatically detect if HDD is normal or not; If the cable connected to HDD is loosen or HDD is abnormal, HDD status will be shown as “No Disk”, or, If HDD need to be formatted, status will be shown as “no format”, otherwise, the HDD status will be shown as “Normal”



- **NO:** indicate HDD no pre-set by system.
- **Status:** It will be available only when HDD have been formatted.
- **Total Space** – Total size of the hard drive currently installed.
- **Free Space** – Total amount of free space available on the hard drive currently installed.
- **Useable Rec. Time** – Free space currently available in hours.
- **Overwrite** – When set to AUTO the DVR will record over the oldest files on the hard drive. The DVR will always be able to record events as they happen, however, it does mean that you'll need to get important events off the HDD before they're overwritten; and if overwrite is set to DISABLE the DVR will stop record once the DVR is full. Whilst you won't lose old footage, you run the risk of missing new events as they happen. Be sure you want to do this before selecting it. It is also possible to define the time (i.e. in days) that the recording file can be displayed in "SEARCH RECORDING". Select the value (i.e. days) between the suggested options.
- **HDD Format** – Formatting the HDD will erase all data (i.e. footage) which is stored on it, and re-create the FAT (file allocation table).
- **USB Format** - If you have a USB flash drive connected to the DVR, you can format that, too. To do this, click the [USB Format] button and click [OK].

Note: It is an important first step when configuring your DVR to make sure that the hard drive (HDD) options are correctly set. So, strongly suggest that you do format the HDD before start the first record.

2.4.6.2 PTZ Set

Click [Main Menu→Device→PTZ] to enter into the below window shown as below.



You could select the channel you desire to control and set PTZ protocol (Pelco-D or Pelco-P), Baud Rate (1200, 2400, 4800, 9600), Data bit (8, 7, 6, 5), Stop bit (1, 2), Parity Check (None, Odd, Even, Mark, Space), Address Code and Cruise status respectively. Please note the PTZ device can be activated only when a channel in connection with the PTZ camera is selected.

2.4.6.3 Serial Set

Enter into the [Main menu→Device→Serial Set] interface shown as below.



When operate DVR via keyboard, it is required to set communication protocol.

- **Baud rate:** set baud rate of serial communication.
- **Data bit:** set data bit of serial communication.
- **Stop bit:** set stop bit.
- **Parity Check:** set parity check to <None> or other.

Note: The Serial item is only available for Ref. 1093/019H.

2.4.7 SYSTEM

2.4.7.1 General

Click [Main Menu→System→General] to enter into the interface shown as below.



You will be allowed to modify system date, time, date/time format, language, video format and auto logout. And click [DST Setup] button to enter into the below interface shown as below.

2.4.7.2 DST Set

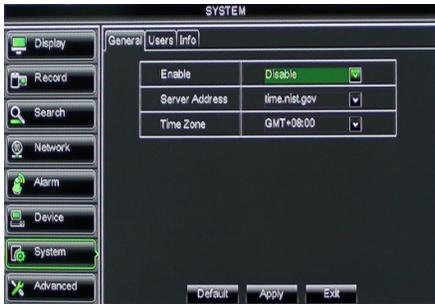


Enter into the interface shown as above and you are allowed to set DST status and mode.

NOTE: In Southern Hemisphere DST can be set manually each year with Daylight Saving Time set as “by day”, if “by week” option doesn’t work correctly.

2.4.7.3 Network Time Protocol (NTP) Service

Click [Main menu→System→General→NTP] to enter into the interface shown as below:



- **NTP Service:** Allow you enable/disable the NTP function.
- **Server Address:** currently support three servers, including time.windows.com, time.nist.gov and pool.ntp.org.
- **Time Zone:** System supports thirty Time Zones.
- **Update now:** Click [Update Now] button to change the above NTP set.

Note: The above change will be available only when system connected to internet. And When NTP function is set to “Enable”, system will calibrate the time at every 00:07:50 and every start-up.

2.4.7.4 Users

Click [Main Menu→System→users] option and then enter into the interface shown as below:



The model supports up to seven users with one Admin and seven users.

Click [Edit] button to enter into the [User Edit] interface shown as below:



User name consist of eight characters, password consist of 0~8 and its fixed-length is 6 bit.

Note:

- **The user can change the own Password without Administrator’s authorization.**
- **The Max. Password length is 8 characters.**
- **If the administrator level password or user level password is enabled, the password has to be customized.**
- **If Administrator level Password is disabled and the User level password is enabled and customized, the default password for Administrator will be “123456” and it will be automatically enabled.**
- **Please don’t lose or forget the password for any reason! Take a note for the set passwords and keep them in Safe Site.**



[Admin] is authorized to set common user’s authority.

- **Log Search:** allow you check the entire system log.
- **Parameter:** allow you set all the parameters.
- **Maintain:** allow you update version, recover ex-factory value, device reboot and shut down.
- **Disk Manage:** allow you manage and control the HDDs.
- **Remote Login:** allow you remote login DVR.
- **Rotate Control:** allow you sequence live screens for all the channels.
- **Manual record:** allow you manually start/stop record.
- **Backup:** Tick-select the option, the user is allowed to backup the record of all the channels.
- **Live:** Tick-select the option and the user is allowed to view all the live images for all the channels.
- **Playback:** Tick-select the option and the user is allowed to playback the record you selected.
- **PTZ control:** Tick-select the option and the user is allowed to perform the PTZ operation for the selected channel.

2.4.7.5 Information

Click [Main Menu→System→Info] and then enter into the interface shown as below



Now user can check the current Device name, Device ID, Device type, Device S/N, MAC address, IE version, Hardware version, Client version, Firmware Version etc.

2.4.8 ADVANCED

2.4.8.1 Maintain

Click [Main menu→Advanced→Maintain] to enter into the maintain interface shown as below.



- **Auto Maintain:** You can enable the auto maintain function regularly as per user's need.
- **Auto Reboot:** you can also set system auto reboot regularly (daily/weekly/monthly) as per user's need.
- **Load Default:** If [Load Default] is selected, you can initialize the system to the ex-factory default.
- **Reboot:** Click [Reboot] button to manually restart DVR system.
- **Shutdown:** Click the [Shutdown] button to shutdown the device.
- **System Upgrade:**
 1. You can insert a USB memory with "dvrupgrade" folder into USB port of DVR for updating as shown below.
 2. Do not take out the USB memory or break the power during the update.
 3. When the update is done, system will be automatically restarted.
 4. Please manually recovery ex-factory default after system rebooting.

※ IMPORTANT NOTE:

- **It is strongly recommended to Backup the record files stored in the Hard Disk before Upgrade Firmware Version. After Backup Process, the files shall be played using the Player Software present in the old Firmware Release.**
- **After Uploading Default Settings please set again the Basic Configurations (i.e. Video Out Control, Language, Date/Time and Record Parameters, etc.)**

2.4.8.2 Exceptions

Click [Main menu→Advanced→Event] to enter into the <Event> interface shown as below



- **Event Type:** support the three abnormal types: Disk No Space, Disk Error and Video Loss.
- **Enable Exception:** allow you activate abnormal alarm.
- **Alarm out:** allow you connect external alarm sensor. Select [Enable] or [Disable].
- **Alarm Out Time:** you can set how long the external sensor alarm will last when the exception is detected (10sec, 20sec, 40sec, and 60sec);
- **Show icons:** You can set show the icon on the screen when the exception is detected. About icons type please refer to Section 4.
- **Buzzer time:** you can set how long the buzzer will sound when the exception is detected (OFF, 10sec, 20sec, 40sec, 60sec);
- **Send Email:** Allows you set the alarm images is issued to a specified email.

Event Type	Function
HDD Loss / HDD No Space	When Hard Drive is not detected (HDD damage, power supply malfunction), or HDD auto-overwrite is off, and free space is not enough, an alarm will be triggered.
Video Loss	Sends alarm when DVR can't receive video signal (such as camera damage, cable broken or damaged or power supply malfunction).

2.5 MENU LOCK

Considering a system safety feature you can click  icon to lock system interface when leaving the DVR. If you want to login to the DVR again, you would input device code and password to unlock the interface shown as below.



Friendly Reminder: Administrator has full authority over Main Menu operations and has an authority to limit common user's operation.

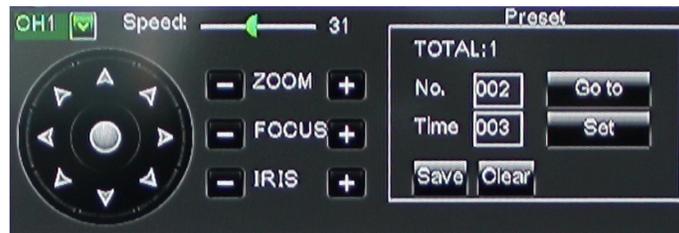
2.6 SPLIT MODE

The model displays 4/8 live images in the sequence of single, 4-split and 9-split modes.

If you enter into 4-split mode, the live images will be displayed in turn CH1~4, CH5~8...and CH13~16.

If you enter into 9-split mode, the live images will be displayed in turn CH1~9→CH10~16.

2.7 PTZ CONTROL



We introduced setting PTZ parameters previously in section 2.4.6.2 – PTZ Set. Here we will discuss how to operate PTZ controls.

Click the  icon to enter into [PTZ control] menu shown as above. Now user can control the camera with Pan, Tilt and Zoom capabilities.

Click [Zoom-/+] button to zoom in / out the image; Click [Focus -/+] button to focus the image; Click [Iris -/+] button adjust iris to open or close.

2.7.1 CRUISE SET

Open auto cruise function on PTZ setting menu if you want to setup cruise function (system default: off), and set up cruise channel, cur point and total quantity and stop time etc

How to set pre-set point

- **Total:** set up pre-set point quantity
- **Cur Point:** indicates starting point cruised. System default point is 01. The model support up to 255 pre-set points.
- **Stop time:** sets the stop time at each point
- **GOTO:** allow you go to a specific preset point.
- **Set:** allow you set a set of specific preset points of a PTZ camera.
 1. Select a camera you desire to set a preset point;
 2. Adjust the camera in a desired direction;
 3. Click [Set] to set the point as preset point;
 4. Click [Save] to save the preset point;
 5. Follow the above step to add one more preset point.
- **Save:** save all the preset points
- **Clean:** allow you delete one selected preset point.

Note: Up to 254 pre-sets per one camera can be stored. However, actual preset quantity differs depending on PTZ performance.

2.8 START/STOP CRUISE

If multiple presets are specified, the PTZ camera will automatically move to the entire preset one at a time whilst user activates [Start Cruise]  options. If you want to stop cruise, please click  icon on the [Tool] column.

2.9 DIGITAL ZOOM



This option allows to select a channel in full screen mode and zoom in on the image in LIVE mode. By right clicking on the channel displayed in full screen mode, it is possible to select the option DIGITAL ZOOM. Now it is possible to select the area to be enlarged with the mouse, by keeping the left button pressed and dragging the area. On the bottom right the user can see in a window the whole channel images with the area to be enlarged, selected in a red box. To disable this function, right click.

2.10 RECORD SEARCH

You could enter into [Record Search] menu from Pop-up menu conveniently and quickly and search/playback the record histories. Record search details are introduced previously in Section 2.4.3.1.

2.11 START/STOP MANUAL RECORD

You can start manual record function, or you also can click  button on the Front panel or Remote controller to activate manual record. Please stop record manually once you activate manual record.

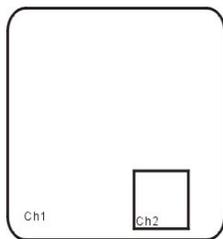
To stop record quickly, please click the icon  or [Stop] button on the front panel or remote controller.

2.12 START/STOP SEQUENCE

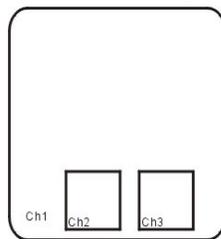
In the single mode, when entering into [Start sequence] menu, auto-sequence will be conducted at the set interval. Details please refer to section 2.4.1.2.

2.13 PIP MODE

You can display a Picture-in-Picture in live mode. PIP has two display modes, including 1X1 display mode and 1X2 display mode.



1x1 display mode



1x2 display mode

2.14 MUTE

Click the  icon, or press <Mute> button on the front panel and Remote controller to control the mute of DVR.

2.15 REBOOT AND SHUT DOWN

It is possible to Reboot or Shut Down the DVR from Pop-up Menu.

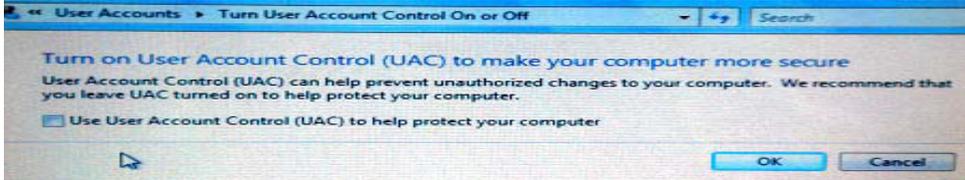
2.16 MONITOR SELECTION

It is possible to switch the Monitor (i.e. VGA or CVBS Monitor). Monitor Selection details are introduced previously in Section 2.1.

3 PLUG-IN DOWNLOAD AND INSTALLATION WEB INTERFACE

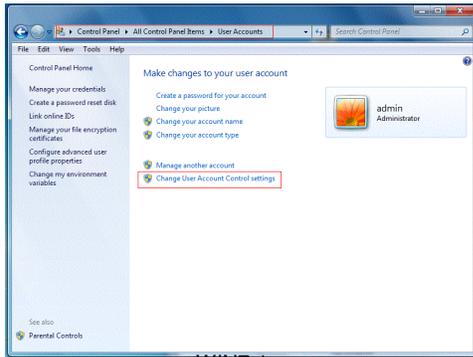
Open your web browser and input the IP address and web port of DVR, such as: <http://IP Address:Web Port/> . If your computer is connected to internet, it will download and install “ActiveX” Plug-in automatically. If your computer system is Vista, you may need to setup the user authority. Details please refer to the below picture: Start → setup → control panel and Tick “√” use UAC to help protect your computer and confirm OK.

Vista system:

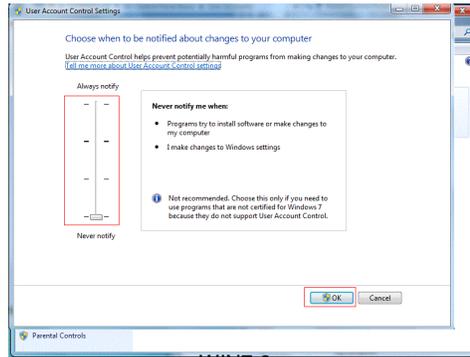


Vista

Win-7 system:

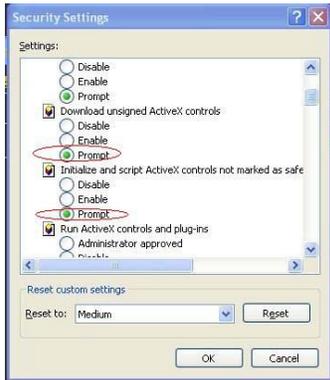


WIN7-1



WIN7-2

Reminder: If the plug-in program is not downloaded successfully, please check if your browser’s safety level or firewall setting is too advanced. Please run IE →Tools→Internet options→Internet Custom level→Enable the options (details please refer to the picture below).



If running the web application for the first time, you need about one minute to finish download and install plug-in, please wait patiently.

Note:

- If you want to use the undated webcam at one computer which you already login before, please delete the old IE webcam and click [Start→Run] to input the command characters: “regsvr32/u HiDvrOcx.ocx”, then login again
- For Major details please refer to Appendix: Active X Installation Section.

3.1 WEB APPLICATION MANAGER LOG-IN

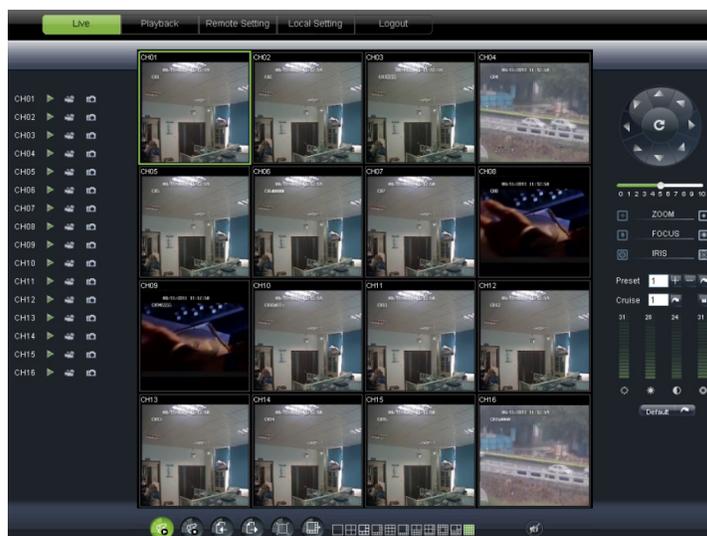
After plug-ins installation, please input user name, password and client port; and select the Stream Type <Main stream> or <Sub stream>. After that select the Language and then allow you tick-select <Open All Channels Preview>;



Now you click [Log-in] button, and then you are allowed to access a remote DVR and monitor live video images using Web browser anytime from virtually anywhere. Noted that defaulted password is empty. System allows Administrator to set new password as per instructions in section 2.4.7.4 - [System set→User Configuration] menu.

3.2 LIVE INTERFACE

After successful logging-in web manager, you will enter into the Live interface shown below



3.2.1 MENU BAR

Menu bar include [Live], [Replay], [Configuration], [Path Configuration] and [Logout] options

3.2.1.1 Live Display

After running the Web Application Manager on your local PC, system will be defaulted to enter into <Live> interface shown as above. You can click [Play] button to Open/close live images and enter into on-spot record and Capture, quad, 9-split or 16-split mode by operating the control bar on the bottom of screen.



Volume switch



Record icon: record will be saved to a specified position after starting record.

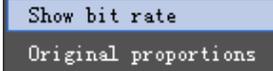


Snapshot function: allow you capture the live images and save it to a specified position. The image should be saved as *.bmp format.



Clicking the icon will close/open the current channel's live mode

Or click the right key of mouse on each <Live> window to pop up the interface shown as below.



Show bit rate: show current bit rate;

Original Proportions: show original proportions.



: CH Display mode



: Allow you open all the <live> channels.



: Allow you close all the <live> channels.



: Display previous channels



: Display next channels



: Click the icon to enlarge current window to full screen; right-click to pop-up menu options, now allow you select <Exit full screen>

3.2.1.2 PTZ Control



PTZ moving Direction control: allow you control PTZ camera's direction. And the middle button is called [Auto-cruise] button.



PTZ speed control bar



Iris, Focus and Zoom control

Preset setting/clear; Start cruise /stop cruise

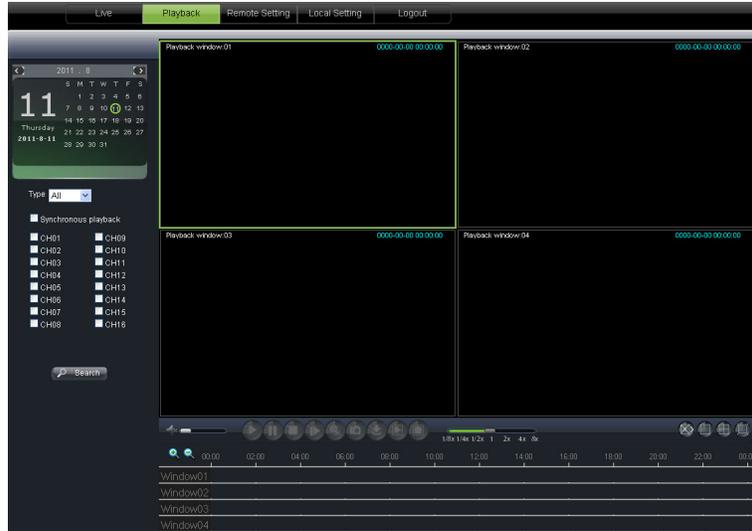
3.2.1.3 Video control



- ⊗ Adjust video Hue;
- ★ Adjust video brightness;
- ◀ Adjust video Contrast;
- 🌈 Adjust video saturation;
- Default Recover ex-factory default value.

3.2.2 PLAYBACK

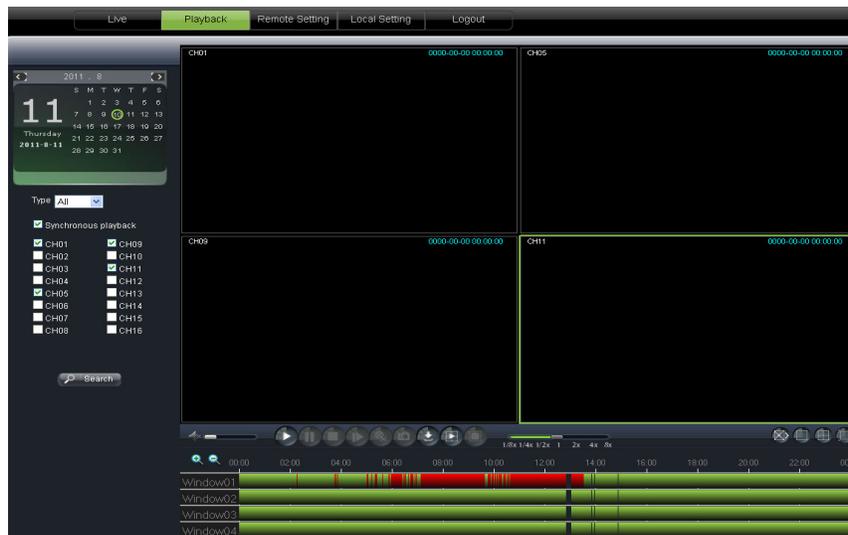
Click  icon to enter into <playback> interface shown below.



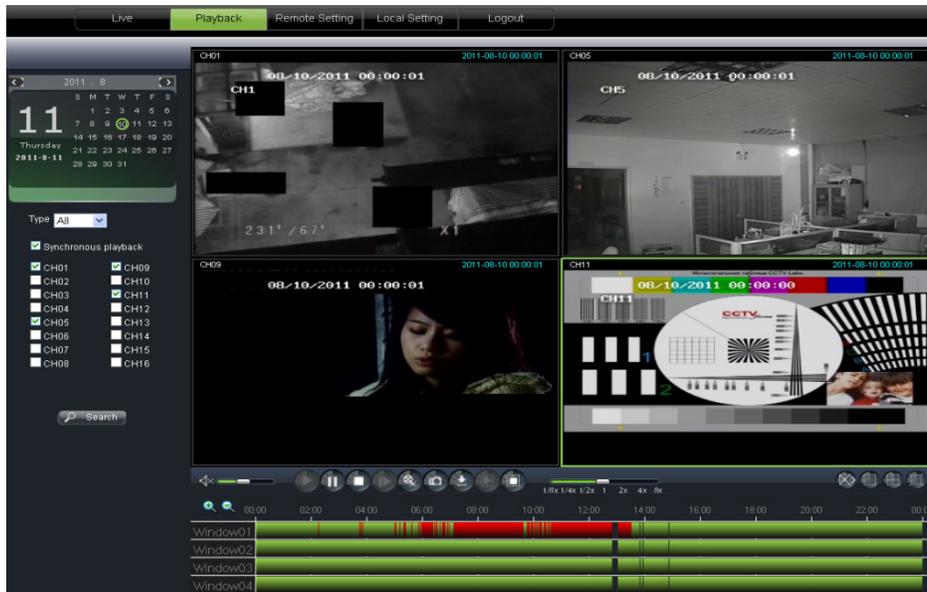
The Web Application Manager supports up to 4 channels playback simultaneously.

3.2.2.1 Record search

Firstly, select one day you want to check and tick-select <synchronous Playback> and the channels you desire to playback shown as below



Secondly, select record type (Normal record, Alarm record and All) and then click  button shown as below. On the time axis, red part stand for alarm record, yellow stand for normal record and original part stand for no record during this period.



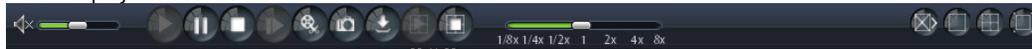
If you tick-select  option, that means the selected channel will playback synchronously; otherwise, you could separately control the channels playback.

Thirdly, Click  icon to start record playback. When mouse cursor is moving on the time axis, the current time will appear in the screen.

Click  icon to zoom in/out the time bar display ratio shown as below.

3.2.2.2 Playback control

Below is playback control bar



Detail brief description is shown as below list

Key	Description	Key	Description
	Play		Open/close audio
	Pause		Volume adjust
	Stop		Playback control bar (x1/2, 1/4, 1/8, normal, x2, x4, x8)
	By frame		Stop all the play
	Clip		Single channel mode
	Capture		Quad mode
	Download		Full screen
	Open all the channels		
	Stop all the channels		

3.2.2.3 Record file clip

After opening playback, click  icon to clip the selected file; and click again to stop the clip function. Record clip file will be saved as *.264 format.

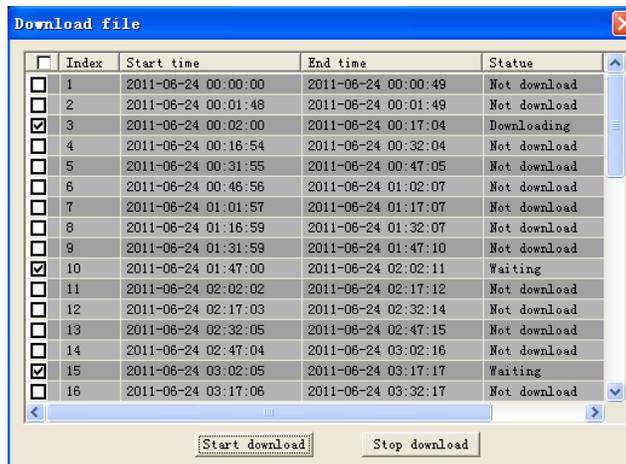
3.2.2.4 Snapshot function

Move the mouse cursor to the channel you want to capture, and click  icon to capture the live images remotely. After capturing the images successfully, you are allowed to save it to a specified path shown as below. The captured file will be saved as *.bmp format



3.2.2.5 Record file download

Click  icon to enter into the below interface shown as below.



Tick-select the record file you want to download and click [Start download]
System will download the record file in turn and save to local PC.

3.2.3 CONFIGURATION

Click [Configuration] option to enter into the [Config] interface shown as below and allow you set Display configuration, Record, Network, Alarm, Device, System parameters and Advance according to your actual request.

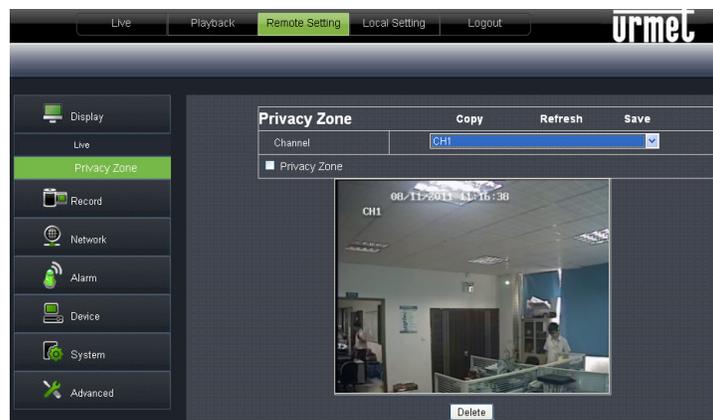
3.2.3.1 Display Configuration

Unfold [Display] option to find its sub-options: Live and Privacy zone

1、 **Live:** Allow you modify channel name, Position, Live channel, Show time and Record time. If show time is set to <disable>, current system time will not appear on the screen on Live mode; and if record time is set to <off>, system time can't be found in the record file.



2、 **Privacy zone:** Each channel could set up to four privacy zones shown as below. Details parameters please refer to section 2.4.1.3. If you want to delete one privacy zone, please firstly select one zone, and then click <Clear> button and click <Save> on the right corner



3.2.3.2 Record

Click <Record> option to unfold its sub-options: Record parameter, Schedule and Main stream.

1、 **Record Parameters:** Under [Record parameters] option, allow you set channel, record enable, pack time and Pre-record status shown as below.



2. **Schedule:** Detailed parameters please refer to DVR local setting.

Green stand for Normal record; Yellow stands for Motion detection; Red stands for I/O triggered record.



3. **Main Stream:** detailed settings please refer to DVR local setting. Herein allow user modifies the resolution, frame rate, Bit rate and audio of the record channel.



3.2.3.3 Network Parameters

Unfold <Network> option to enter into its sub-options: Network, sub stream, Email, mobile and DDNS configuration.

1. The model support three network type, including Static, DHCP and PPPoE
 - **Static: System default <Static> as its network type.** User could allocate IP and perform Port forwarding for DVR according to different router. When set <UPNP> to “On”, user no needs to perform port forwarding. Once you modify its network parameters successfully, DVR will automatically restart.



- **DHCP:** Set network type to “DHCP” shown as below. Relative parameters should be consistent with DVR local setting.



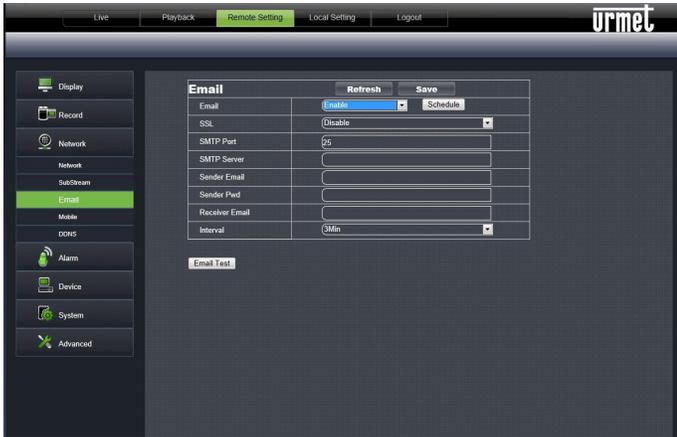
- **Set network type to “PPPoE”:** Its user name and password should be consistent with DVR local setting.



- Sub stream:** Relative parameters should be consistent with DVR local setting.



3. **Email setting:** Click [Email setting] option to allow you set alarm email configuration parameters shown as below. Detailed parameters should be consistent with DVR local setting.



4. **Mobile:** Its user name, password and port No should be consistent with DVR local setting shown below.

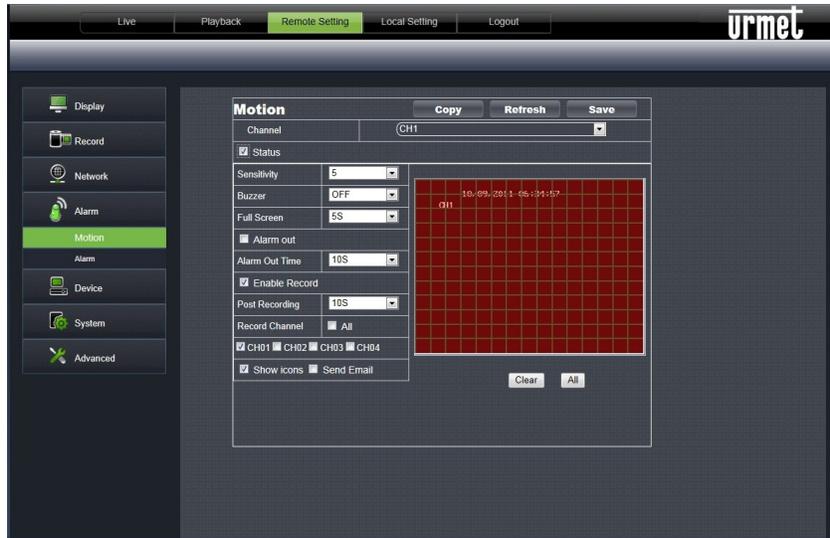


5. **DDNS Setting:** After user applies for DDNS service shown below, you could enable <DDNS> function under any one network type mode (Static, DHCP and PPPoE). Now you remotely visit the DVR through domain name (http://domain name: port No). Details setting should be consistent with DVR local setting.

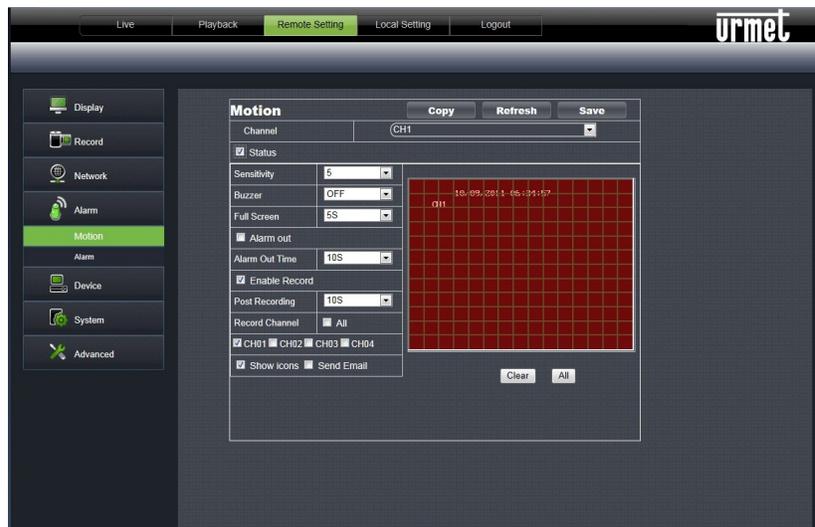


3.2.3.4 Alarm Set

Click <Alarm> option to unfold its sub-options: Motion, I/O Alarm shown as below.



- 1、 **Motion Detection:** allow you configure its <Sensitivity>, <Alarm out>, <Alarm record> and <Alarm Capture> etc. Details setting should be consistent with DVR local setting.



- 2、 **I/O Alarm:** allow you configure <I/O Status>, <Alarm output>, <I/O Alarm record> and <Alarm email> etc. Details setting should be consistent with DVR local setting.



3.2.3.5 Device

Click <Device> to unfold its sub-options: HDD and PTZ.

1. **HDD:** allow you check out HDD status and overwritten time shown below. Detail setting should be consistent with DVR local setting.



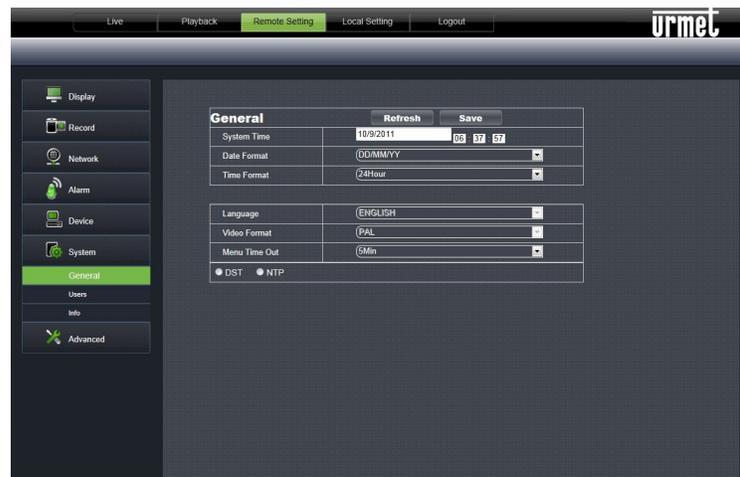
2. **PTZ Configuration:** details setting should be consistent with DVR local setting.



3.2.3.6 System

Click <System> option to unfold its sub-options: General, Users and information.

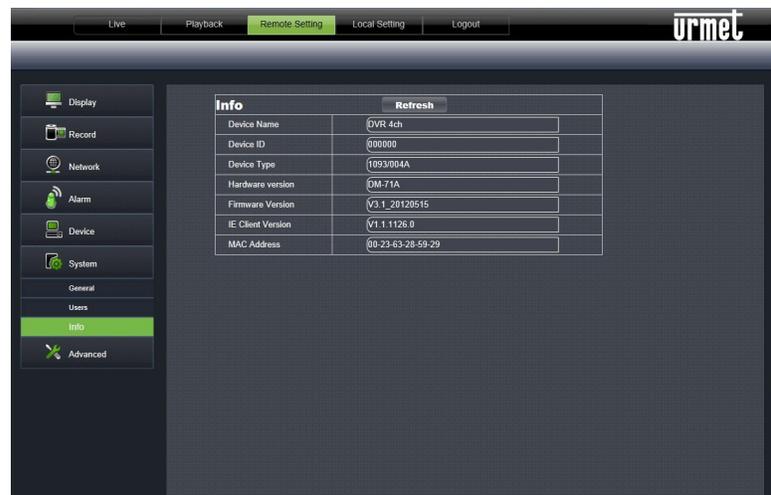
1. **General:** User could check DVR's language and video system, and also set system time, date format, DST and NTP shown below. Details setting should be consistent with DVR local setting.



Users: Allow you configure user name and password shown below. Details setting should be consistent with DVR local setting.



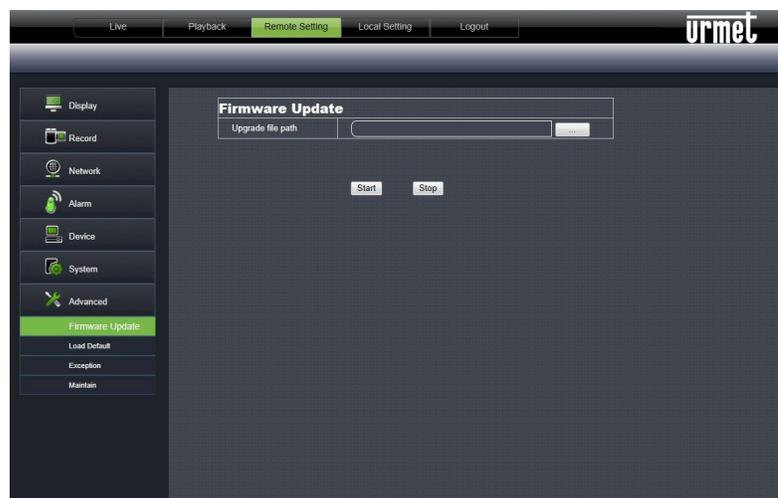
2、 **Information:** Allow you check out device name, number, type, MAC address, software version, IE version and hardware version shown below.



3.2.3.7 Advanced

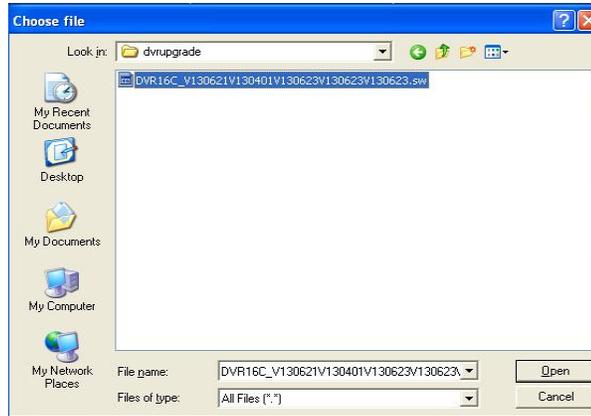
Click <Advance> to unfold its sub-options: System update, Load default, Events and system maintain etc.

1、 **System update:** allow you upgrade DVR system remotely shown below.



Please follow below steps to upgrade the system:

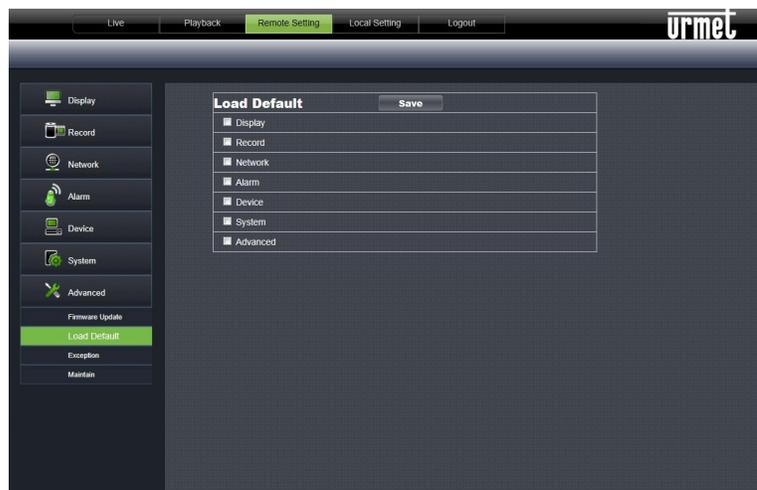
- a. Select the upgrade file's path shown as below. Please note that the format of upgrade file is *.sw.



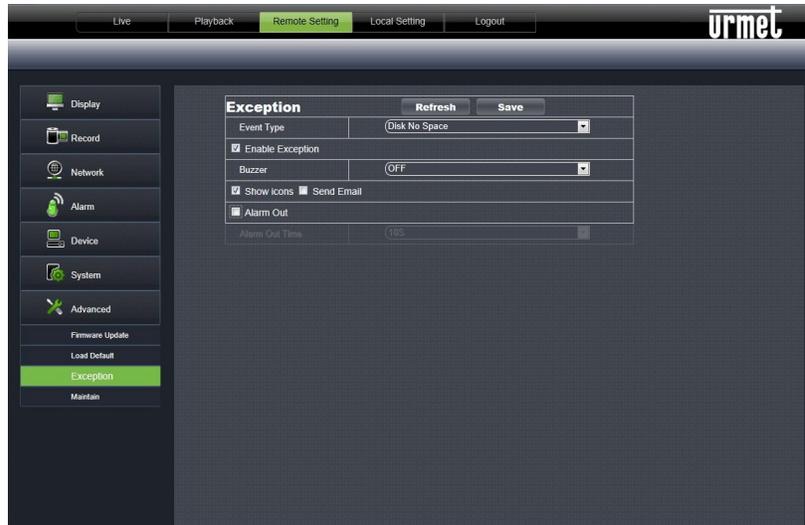
- b. Click <Start update>, now processing bar will display current upgrade status shown as below.



2. **Load Default:** allow you recover defaulted parameters of DVR remotely shown below. Details setting should be consistent with DVR local setting.



3. **Exception:** allow you configure abnormal type, buzzer output time, and alarm email and show message shown as below. Details setting should be consistent with DVR local setting.



4. **Maintain:** allow you set auto system maintain for DVR remotely shown as below. Detail setting should be consistent with DVR local setting.



3.2.4 LOCAL SETTING

Under <Local setting> option, user could set record path of record file (Live record and Playback clip file), download path of remote file, Snapshot path, File type (H.264 and AVI) and Interval shown as below.



3.2.5 LOGOUT

Click the [Logout] icon to return back the log-in interface.

4 RECORD ALARM SETTING

Please refer the below matrix: “□” stand for “only alarm but no record”; “AMR” stand for “alarm record”; “NLR” stand for “normal record”; and “NOR” stand for “ no record”. Once alarm is triggered, alarm icon will occur, and when many alarms are triggered, alarm remarks will occur on the screen.

Record alarm setting		Alarm icon	Record Mode				
			Record after power on	Scheduled recording			Manual Record
				AMR	NLR	NOR	
Alarm mode	MD alarm	M	NLR	AMR	NLR	□	NLR
	I/O triggered alarm	I	NLR	AMR	NLR	□	NLR
	HDD loss, HDD Full	H	□	□	□	□	□
	Video Loss	Video Loss	□	□	□	□	□

In the record mode, **[R]** icon will appear on the screen. But when **[I]** red icon and **[M]** red icon appear on the screen that means a sensor and/or motion alarm is triggered and DVR is recording the Alarm Events, instead if the icons are green colour it means that a sensor and/or motion alarm is triggered but DVR is not recording the Alarm Events. When **[H]** icon appears on the screen, that means HDD alarm has occurred.

5 TROUBLESHOOTING

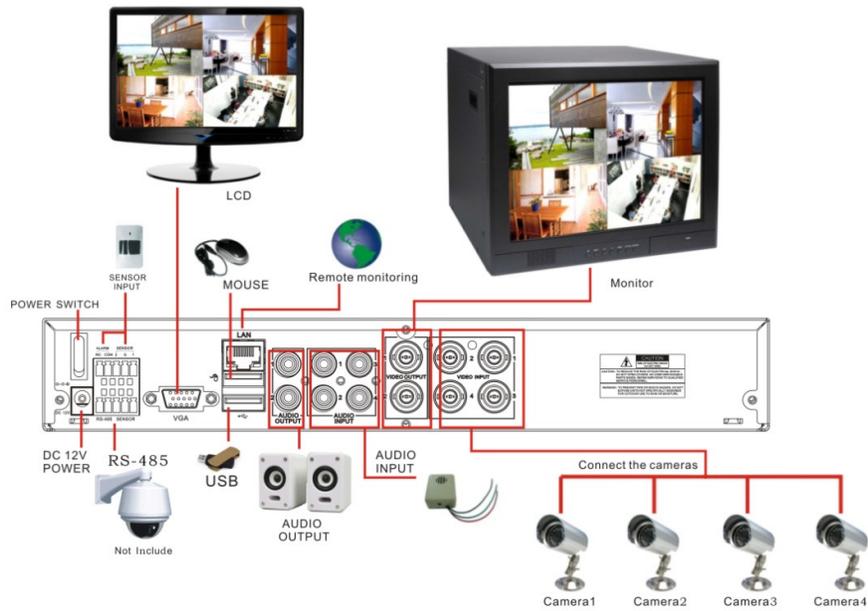
- Q: What can I do if the system does not detect the HDD?
A: Check if the power supply system is properly connected and data cord and power cables are securely connected.
- Q: We have changed the password but do not remember the new password, how can we access the system?
A: If you forget system password, please consult with the service personnel.
- Q: We are not getting any video signal on the DVR, what is wrong?
A: Check camera video cable and connections; or check monitor video cable and connections; or confirm that the camera has the power and / or check camera lens setting.
- Q: Why some channels display just a blank screen even if they receive video sources?
A: Check if the camera is connected to the system properly displays the image; check if the camera is properly supplied with power.
- Q: Can the DVR have problems if it gets too hot, how can I prevent this?
A: Please place the DVR in a place where there is good air circulation and away from heat sources to increase stability and life of the DVR.
- Q: “Record” Can not work normally, how to deal with?
A: Check if the current screen is in Play mode, pressing [Stop] button to exit the Play mode and then you can enter into the [Record] function.
- Q: Why the Remote Controller can't work normally?
A: Check if the battery is power off; or check if the Remote Controller is broken.
- Q: Can we records whilst playing-back?
A: Yeah, you can do it. The system support you records whilst playing-back.
- Q: Can we erase some recorded file from DVR.
A: Considering the safety factor, you can't delete the recorded file directly from the device. When you actually erase all the recorded files, please select HDD format function
- Q: Why does the Buzzer keep sounding?
A: Please check if motion detection is on and the system has detected motion, make sure the HDD is being detected and has sufficient space available; check if video has lost etc.
- Q: Why can't stop [Stop] function?
A: Pressing [Stop] button only can stop manual record. If you want to stop Scheduled record, please revise to [No Record] during this period.

6 USAGE MAINTENANCE

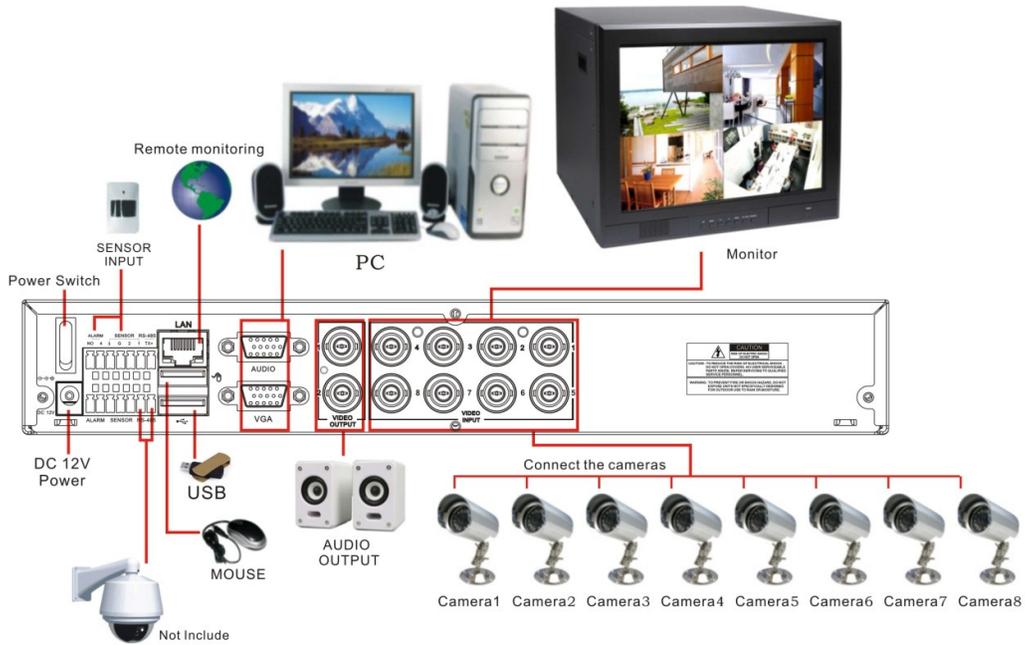
- Please make sure DVR keep away from heating source.
- Clean the internal dust regularly, keep DVR aeration well and be easy to heat dissipate.
- Please not plug in RS-232 and RS-485 when power is on to avoid any damage to the port.
- Please check the HDD cable and data cable to avoid the cable aging.
- Please avoid other electronics device interfere video/audio signal of DVR a.s.a.p., or static electricity and induced voltage damage to DVR.
- Suggest user replace BNC cable regularly to keep signal input stable.

7 SYSTEM CONNECTION DIAGRAM

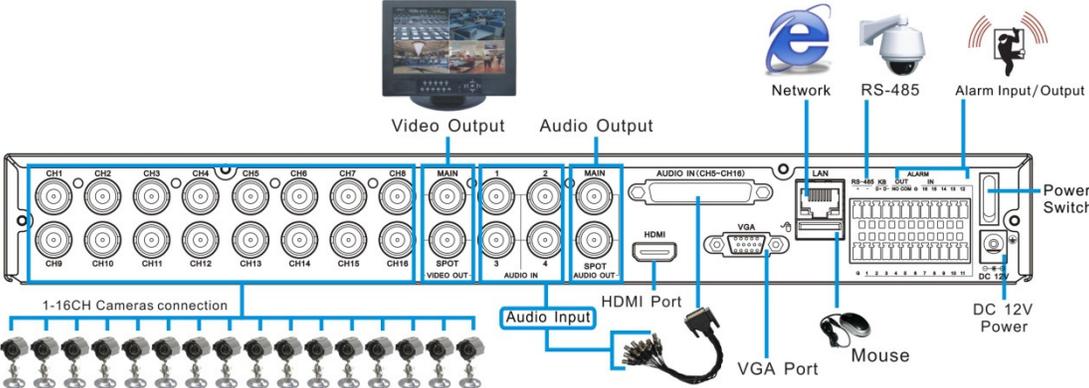
1093/004H DVR 4ch



1093/008H DVR 8 ch.



1093/019H - DVR 16Ch



8 1093/004H - 1093/008H – 1093/016H SPECIFICATIONS (PAL FORMAT)

Feature	Characteristics		
	1093/004H	1093/008H	1093/016H
Compression formats	Video: H.264 / Audio: 8kHz*16bit ADPCM		
Video Inputs/outputs	4-CH BNC Input/ 1-CH BNC Output 1 CH VGA Output 1 CH HDMI Output	8-CH BNC Input/ 1-CH BNC Output 1 CH VGA Output 1 CH HDMI Output	16-CH BNC Input/ 1-CH BNC Output 1 CH VGA Output 1 CH HDMI Output
Audio I/O	4-CH RCA Input / 1-CH RCA Output		
Display Resolution /Frame Rate	WD1: 960x576@25fps for Single Channel		
Recording resolution	960H Mode: WCIF (480x288), WHD1(960x288), WD1(960x576) D1 Mode: CIF(360*288), HD1(720*288), D1 (720*576)		
Recording frame rate	100fps@WD1/D1, 100fps@WHD1/HD1, 100fps@WCIF/CIF	72fps@WD1/WHD1, 200fps@D1/HD1, 200fps@WCIF/CIF	144fps@WD1/WHD1, 200fps@D1/HD1, 400fps@WCIF/CIF
Recording modes	Always / Timed / Manual /Motion Detection / Sensor or External Alarms		
Recorded files dimension	15/30/45/60min		
Sub Stream	CIF@ No Real Time		
Hard Disk Interface	Max 1 Sata HDD		
Memory for video backup	Hard Disk 500 GB (default)		
	USB pen drive / removable HD / USB CD/DVD writer / Network (AVI files)		
Playback modes	PLAY /SLOW /FWD/Frame by Frame		
Synchronous Playback	4 ch.	8 ch. [CIF /HD1/D1 :25fps (1CH-4CH) CIF /HD1/D1 :12fps (8CH) WCIF:25fps, WHD1/ WD1:9fps] for Single Channel	16 ch.
Watermark /Web Data Encryption	YES		
Web / Client Software Multi - Language	Internet Explorer and CMS supported		
I/O alarm	4-CH alarm inputs, 1-CH alarm output	8-CH alarm inputs, 1-CH alarm output	
Alarm types	Motion/ External alarms / Input alarms / Video loss / HD space / HD failure		
Maximum number of PC that can be connected simultaneously	20		
PDA Software Mobile	Symbian 3 th /5 th Edition, Windows Mobile, iOS, Android, Blackberry		
PTZ Control	By RS485 using PELCO-D and PELCO-P protocol		
USB 2.0 port	Support mouse		
Ethernet	RJ-45 10M/100MB self-adaptable Interface		
Network protocols	TCP/IP, DHCP, UDP, DDNS, PPPOE		
Power consumption	10W		
Power supply	12V / 2A		
Operating temperature range	5°C – 40°C		
Dimensions (width x height x depth)	300X53X227 mm		
Weight	~3 kg		

9 1093/018H AND 1093/019H SPECIFICATIONS (PAL FORMAT)

Feature	Characteristics	
	1093/018H	1093/019H
Compression formats	Video: H.264 / Audio: 8kHz*16bit ADPCM	
Video Inputs/outputs	8-CH BNC Input/ 1-CH BNC Output 1 CH VGA Output 1 CH HDMI Output	16-CH BNC Input/ 2-CH BNC Output 1 CH VGA Output 1 CH HDMI Output
Audio I/O	8-CH RCA Input / 1-CH RCA Output	16-CH BNC Input / 2-CH BNC Output
Display Resolution/ Frame rate	WD1: 960x576@25fps for Single Channel	
Recording resolution	960H Mode: WCIF (480x288), WHD1(960x288), WD1(960x576) D1 Mode: CIF(360*288), HD1(720*288), D1 (720*576)	
Recording frame rate	200fps@WD1/D1, 200fps@WHD1/HD1, 200fps@WCIF/CIF	400fps@WD1/D1, 400fps@WHD1/HD1, 400fps@WCIF/CIF
Recording modes	Always / Timed / Manual /Motion Detection/ Sensor or External Alarms	
Recorded files dimension	15/30/45/60min	
Sub Stream	CIF@ No Real Time	
Hard Disk Interface	Max 2 SATA HDD	
Memory for video backup	Hard Disk 500 GB (default)	
	USB pen drive / removable HD / USB CD/DVD writer / Network (AVI files)	
Playback modes	PLAY /SLOW /FWD/Frame by Frame	
Synchronous Playback	8 ch.	16 ch.
Watermark/ Web Data Encryption	YES	
Web / Client Software Multi - Language	Internet Explorer and CMS supported	
I/O alarm	8-CH alarm inputs, 1-CH alarm output	16-CH alarm inputs, 1-CH alarm output
Alarm types	Motion/ External alarms / Input alarms / Video loss / HD space / HD failure	
Maximum number of PC that can be connected simultaneously	20	
PDA Software Mobile	Symbian 3 th /5 th Edition, Windows Mobile, iOS, Android, Blackberry	
PTZ Control	By RS485 using PELCO-D and PELCO-P protocol	
USB 2.0 port	Support mouse	
Ethernet	RJ-45 10M/100MB self-adaptable Interface	
Network protocols	TCP/IP, DHCP, UDP, DDNS, PPPOE	
Power consumption	15W	
Power supply	12V / 5A	
Operating temperature range	5°C – 40°C	
Dimensions (width x height x depth)	380x50x340 mm	
Weight	~4 kg	

※IMPORTANT NOTES (about Technical Specifications: Chapter 8 and Chapter 9)

- Product specifications may be subject to change without prior notice.
- In the event of HDD replacement/addition, the operation must be carried out by qualified technical staff only or after contacting the nearest technical office.
- Hard Disk capacity can reach 2TB. Please contact the nearest technical office to get the full list of compatible HDDs.

10 MAXIMUM RECORDING TIME WITH 500GB HARD DISK

10.1 REF. 1093/004H – 1093/008H – 1093/016H – 1093/018H – 1093/019H

The following resolution options can be selected on Urmet Evolution 2.0 DVR Series:

- **“WD1”, “WHD1” and “WCIF”** on 1/4/8/16 analog Channels
- **“D1”, “HD1” and “CIF”** on 1/4/8/16 analog Channels

✳IMPORTANT NOTES

- Bandwidth and HDD Duration can be highly variable depending on the scene recorded.
- The following tables show the approximate time needed to fill the HDD when the 1/4/8/16CH DVR records video only (i.e. no Audio) at the resolution and frame rate selected.
- In order to estimate the HDD duration (before being overwritten) in the case of 2 or 3 channels, user can divide the 1 channel table's values (hours or days) by the actual number of channels that are being recorded. The larger the number of channels recorded, the smaller the time interval before the HDD starts being overwritten.

1 Record Channel in WCIF (480×288) Resolution / CIF (352x288) Resolution			
Variables to be set		Results	
Bitrate (in Kbps)	Frame rate (in fps)	HD Time (hours)	HD Time (in days)
512	25	2184	91
448	22	2497	104
448	20	2497	104
384	18	2913	121
320	16	3495	146
320	15	3495	146
256	12	4369	182
224	10	4993	208
160	8	6990	291
128	6	8738	364
80	4	13981	583
48	2	17476	728
32	1	17476	728

4 Record Channels in WCIF (480×288) Resolution / CIF (352x288) Resolution			
Variables to be set		Results	
Bitrate (in Kbps)	Frame rate (in fps)	HD Time (hours)	HD Time (in days)
512	25	546	23
448	22	624	26
448	20	624	26
384	18	728	30
320	16	874	36
320	15	874	36
256	12	1092	46
224	10	1248	52
160	8	1748	73
128	6	2185	91
80	4	3495	146
48	2	4369	182
32	1	4369	182

8 Record Channels in WCIF (480×288) Resolution / CIF (352x288) Resolution			
Variables to be set		Results	
Bitrate (in Kbps)	Frame rate (in fps)	HD Time (hours)	HD Time (in days)
512	25	273	11
448	22	312	13
448	20	312	13
384	18	364	15
320	16	437	18
320	15	437	18
256	12	546	23
224	10	624	26
160	8	874	36
128	6	1092	46
80	4	1748	73
48	2	2185	91
32	1	2185	91

16 Record Channels in WCIF (480×288) Resolution / CIF (352x288) Resolution			
Variables to be set		Results	
Bitrate (in Kbps)	Frame rate (in fps)	HD Time (hours)	HD Time (in days)
512	25	137	6
448	22	156	7
448	20	156	7
384	18	182	8
320	16	218	9
320	15	218	9
256	12	273	11
224	10	312	13
160	8	437	18
128	6	546	23
80	4	874	36
48	2	1092	46
32	1	1092	46

1 Record Channel in WHD1 (960x288) Resolution / HD1 (704x288) Resolution			
Variables to be set		Results	
Bitrate (in Kbps)	Frame rate (in fps)	HD Time (hours)	HD Time (in days)
1024	25	1092	46
896	22	1248	52
896	20	1248	52
768	18	1456	61
640	16	1748	73
640	15	1748	73
512	12	2185	91
448	10	2497	104
320	8	3495	146
256	6	4369	182
160	4	6991	291
80	2	8738	364
48	1	8738	364

4 Record Channels in WHD1 (960x288) Resolution / HD1 (704x288) Resolution			
Variables to be set		Results	
Bitrate (in Kbps)	Frame rate (in fps)	HD Time (hours)	HD Time (in days)
1024	25	273	12
896	22	312	13
896	20	312	13
768	18	364	15
640	16	437	18
640	15	437	18
512	12	546	23
448	10	624	26
320	8	874	37
256	6	1092	46
160	4	1748	73
80	2	2185	91
48	1	2185	91

8 Record Channels in WHD1 (960x288) Resolution / HD1 (704x288) Resolution			
Variables to be set		Results	
Bitrate (in Kbps)	Frame rate (in fps)	HD Time (hours)	HD Time (in days)
1024	25	137	6
896	22	156	7
896	20	156	7
768	18	182	8
640	16	219	9
640	15	219	9
512	12	273	11
448	10	312	13
320	8	437	18
256	6	546	23
160	4	874	36
80	2	1092	46
48	1	1092	46

16 Record Channels in WHD1 (960x288) Resolution / HD1 (704x288) Resolution			
Variables to be set		Results	
Bitrate (in Kbps)	Frame rate (in fps)	HD Time (hours)	HD Time (in days)
1024	25	68	3
896	22	78	3
896	20	78	3
768	18	91	4
640	16	109	5
640	15	109	5
512	12	137	6
448	10	156	7
320	8	218	9
256	6	273	11
160	4	437	18
80	2	546	23
48	1	546	23

1 Record Channel in WD1 (960x576) Resolution / D1 (704x576) Resolution			
Variables to be set		Results	
Bitrate (in Kbps)	Frame rate (in fps)	HD Time (hours)	HD Time (in days)
2048	25	546	23
1536	22	728	30
1280	20	874	36
1024	18	1092	46
896	16	1248	52
768	15	1456	61
640	12	1747	73
512	10	2185	91
448	8	2497	104
320	6	3495	146
224	4	4369	182
128	2	4369	182
64	1	4369	182

4 Record Channels in WD1 (960x576) Resolution / D1 (704x576) Resolution			
Variables to be set		Results	
Bitrate (in Kbps)	Frame rate (in fps)	HD Time (hours)	HD Time (in days)
2048	25	137	6
1536	22	182	8
1280	20	219	9
1024	18	273	12
896	16	312	13
768	15	364	15
640	12	437	18
512	10	546	23
448	8	624	26
320	6	874	37
224	4	1092	46
128	2	1092	46
64	1	1092	46

8 Record Channels in WD1 (960x576) Resolution / D1 (704x576) Resolution			
Variables to be set		Results	
Bitrate (in Kbps)	Frame rate (in fps)	HD Time (hours)	HD Time (in days)
2048	25	68	3
1536	22	91	4
1280	20	109	5
1024	18	137	6
896	16	156	7
768	15	182	8
640	12	218	9
512	10	273	11
448	8	312	13
320	6	437	18
224	4	546	23
128	2	546	23
64	1	546	23

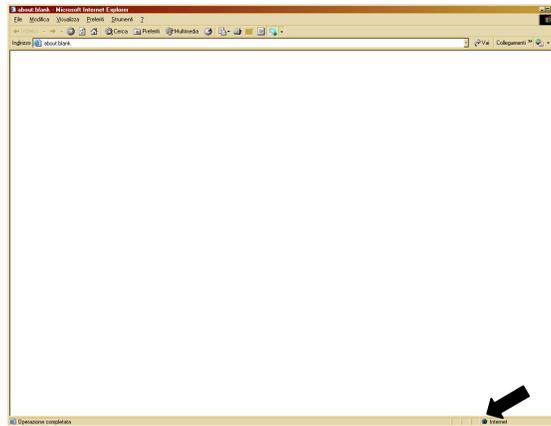
16 Record Channels in WD1 (960x576) Resolution / D1 (704x576) Resolution			
Variables to be set		Results	
Bitrate (in Kbps)	Frame rate (in fps)	HD Time (hours)	HD Time (in days)
2048	25	34	1
1536	22	46	2
1280	20	55	2
1024	18	68	3
896	16	78	3
768	15	91	4
640	12	109	5
512	10	137	6
448	8	156	7
320	6	218	9
224	4	273	11
128	2	273	11
64	1	273	11

APPENDIX: ACTIVE X INSTALLATION

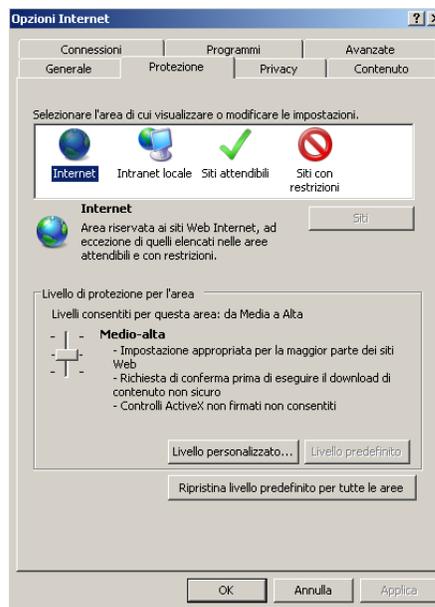
If the installation of an ActiveX component is required, follow the procedure below.
Before performing the connection to the PC, activate IE protection configuration, following the procedure below:

Double click the icon  to open Internet Explorer browser.

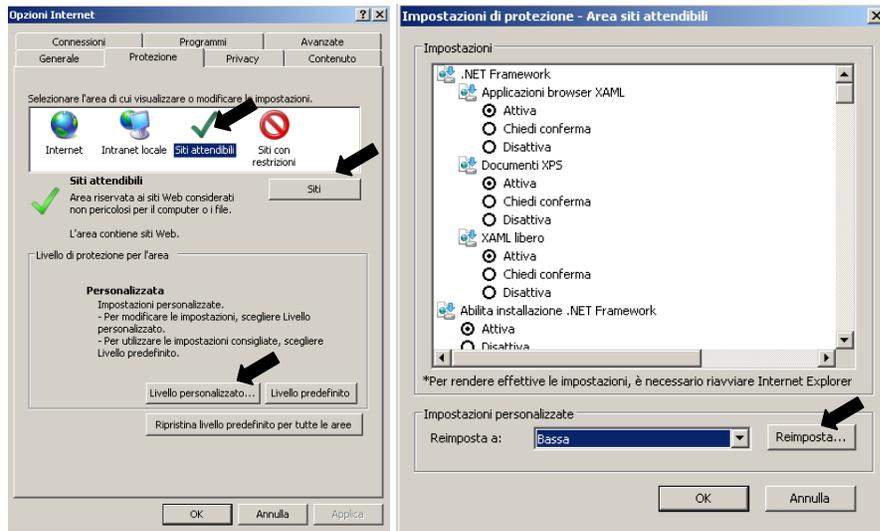
- The following display will appear (or, however, the default page).



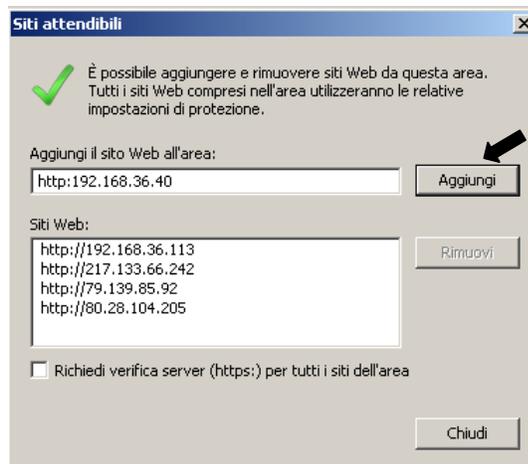
- Double click the icon  Internet.
- The screen “Internet Properties” will appear.



- Select the area “**Trusted sites**”.
- Click on “**Custom Level**” and make sure that the Protection Level is set as “**Low**”. If the Protection Level is not set, set it as Low and click on “**Re-Set**”. Select OK to confirm.



- Click the item “**Sites**”.
- The following screen will appear. It will be needed to add the Device IP Address(Example: <http://192.168.36.40>) in the filed “*Add Web Site to the Zone*”.



- Add the device IP address in the field click on “**Add**”.
- ※ **NOTE**
Do not select the item: “Require server (https:) verification for all sites in this zone”.
- Close the window selecting “**Exit**”
- Confirm clicking on “**Apply**” and “**OK**”
- Close Internet Explorer Interface and launch again the Browser in order to install the New Active X.

DS1093-095

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