

Notice: This content is subject to be change without notice.

User Manual





CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of unprotected "Dangerous voltage" within the product's enclosure that may be strong enough to cause a risk of electric shock.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

NOTE: This equipment has been tested and found to comply with the limits for a class digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protectio n against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency e nergy and, if not installed and used in a ccordance with the instruction manual, m ay cause harmful interference to radio c ommunications. Operation of this equipm ent in a residential area is likely to caus e harmful interference in which case the user will be required to correct the inte rference at his own expense.

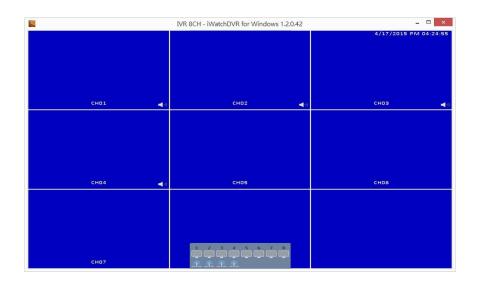


Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

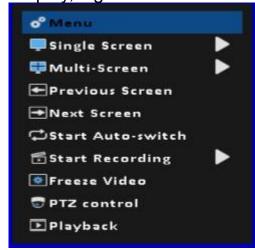
This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Notice: Ghosting or fractured images may occur on the screen when there is a suddenly surge or lightning stroke which cause damage on IC in the DVRs.

User Manual



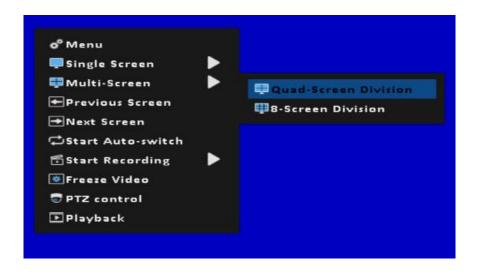
Display, right-click on the screen to evoke the main menu.



Single Screen CH1.CH2,CH3.CH4.....

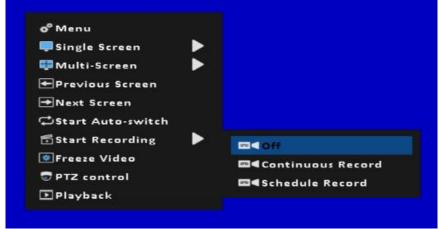


Multi-Screen Quad-Screen Division, 8-Screen Division ..



Previews Screen Next Screen Start Auto-switch

Start Recording Off, Continuous Record, Schedule Record



Freeze Video PTZ control Playback



Menu::

Play Back: Playback by time

Export: Export record files by file on USB/DVD/Remote PC.

Manual: Manual Recording / Alarm HDD: HDD Format and settings

Record: Record Schedule, parameters settings ... etc. Camera: Camera OSD, event, PTZ settings ... etc.

Configuration: System time / date, network, alarm settings ... e

tc.

Maintenance: Upgrade, log, default etc. Shutdown: Shutdown, reboot and logout.

Login

Name: Admin, Password: 123456



1 Play Back: Time Search



Time search can search for the specific time of recorded data to playback. Note that dates with recording data are marked with a blue box. System will start playing video of specified time slot. Calendar will be shown by using mouse to click on "year" and "month".

Click "date" to display recording time of that specific date with time bar. You can change time (hour/minute/second) or click on a specific pint of time bar by mouse then press "ok". DV R will playback the recorded data of the specific time.

Item	Description
	Playbackbutton,startp lay-bac.
205 004 CHARLET 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Select playback time by sliding the position of the cursor to the

specified time. The timeline scale is 24 hours.
The blue chart represents available video data.

2 xport: Export record files by file on USB/DVD/Remote PC. User can backup recorded video data of a specified time fram e. The DVR can backup video data to either direct-attached st orage, such as DVR or USB drive, or remote folder of a PC.



2-1 Selection

Item	Description
From	The start time of video data to be backed up
То	The end time of video data to be backed up
Duration	The time duration of backup file
All	It can select all channels or clear all selected channels to backup
Required Space	Show the size of the backup file



2-2 Select Backup Device

Item	Description
Backup Devi	Select target device of backup (USB/DVD-RW/re
ce	mote folder)
Status	The status of target backup device
Free Space	The available space in the target backup device.
	(not available for
	remote folder backup)
Backup	Start backup operation.
	Be sure to calculate the size of backup file BEF
	ORE operating backup.

Do not unplug the USB device or turn off the DVR during the backup process to avoid unrecoverable error.

3 Manual: Manual Recording / Alarm



Video Loss / Motion Detection / Sensor

4 HDD: HDD Format and settings



4-1 HDD Information

Item	Description
Model	Display HDD model
Status	Display HDD status (Recording/Error)
Attribute	Display HDD Attribute (Overwritable/Writable/Read-
	Only)
Free/Capacity	Display HDD capacity (Free/Capacity)
Format	Check the hard disk drive and press "Format", ther
	e are four options to set the HDD.
	Start Format HDD DVR. Status bar "successful" HD
	D initialization! Enter
	the menu, there will be all of the hard disk informa
	tion (model, capacity).
Overwritable	Set the hard disk to be replicated state will start to
	overwrite the hard disk is full.
Writable	Set the hard disk as writable state, after the hard
	disk is full stop writing.
Read-Only	Set the hard disk is read-only, read-only cannot be
	written to the hard disk.

4-2 Other Storages Information



4-2-1 USB Flash Derive Setup

Item	Description
Model	Display USB flash drive model
Free/Capacity	Display USB flash drive capacity (Free/Capacity)

4-2-2 DVD-RW Setup

Item	Description
Model	Display DVR-RW model
Media Type	Display disk type
Free/Capacity	Display DVR-RW capacity (Free/Capacity)

5 Record: Record Schedule, parameters settings ... Etc.

5-1 Schedule Recording



Schedule recording can configure recording time by days of a week and hour.

With the A, B, C, D four settings, users can set different recording scheme according to different configuration needs. In the day and time grid map, select the schedule time zone, and then press A, B, C, D one of the buttons to specify the video s ettings.

5-2 Parameters

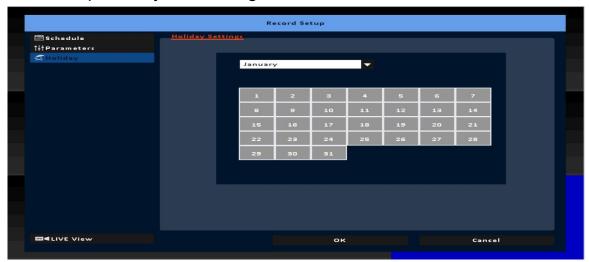


Item	Description
Camera	Set Camera
Decemb	Enable / Disable recording for this channel
Record	(Continus & Event)
Resolution	Recording resolution selection
Video Quality	Recording quality, from 10 to 100. The larger
	number means the better quality
Frame Rate	Select recording frame rate, from 1 to 30
Record Audio	Enable / Disable recording audio
Pre-record	Set the record seconds before the event, from
	0 to 10.
Post-record	Set the playback seconds after the event, from
	0 to 10

5-3 Holiday Configuration

The number of holiday is up to 50. When the time comes to the specified holidays, the DVR will start recording according to holiday configuration.

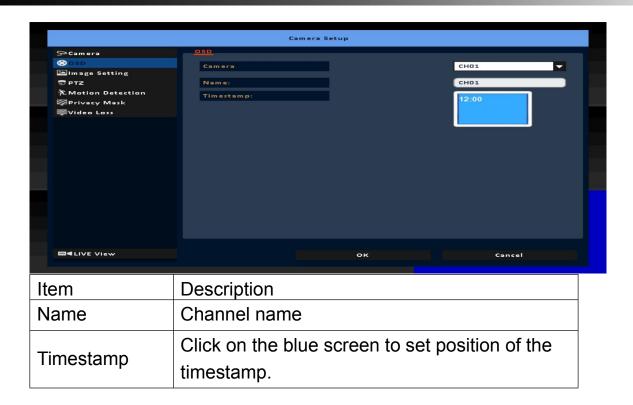
Since holidays are different by different country and region, users can setup holidays according to user needs.





6 Camera: Camera OSD, event, PTZ settings ... Etc.

6-1 OSD



6-2 Image Setting



Item	Description
Brightness	Adjust brightness from 0 to 255
Contrast	Adjust contrast from 0 to 255
Saturation	Adjust saturation from 0 to 255
Hue	Adjust hue from 0 to 255
Sharpness	Adjust sharpness from 0 to 255

6-3 PTZ



6-3-1 Table-2 Setup description

Item	Description
Enable	Click the box to Enable/Disable PTZ function.
Protocol	Set up the protocol of PTZ cam. The supported
	protocol are: PELCO-D、PELCO-P、Merit LiLin
	1、Merit LiLin 2、SAMSUNG、LG-MultixE
PTZ ID	Set up PTZ ID. The valid ID value is from 0 to
	255.
Baud Rate	Select Baud Rate of PTZ control protocol from
	2400, 4800, 9600,19200

6-3-2 Table-2 Function description

Item	Description
	ZOOM. Press + / - or move the slider to adjust the zoom level.
	FOCUS. Press + / - or move the slider adjust the PTZ focus
	IRIS. Press + / - or move the slider to adjust the PTZ iris
= K	Press left and right arrow keys to move the camera to the preset locations, and then press to set current camera

	location to default point.
	Press left and right arrow keys to move
t. hr	the camera to the preset locations, and
-Z	then press ** to change the camera to
	next preset point.
Rotate Video	Make the display upside down

6-4 Motion Detection



6-4-1 Motion Setup

The motion detection has been divided into 22 x18 grids. The default detection area is full screen. The screen is marked in transparent for detection area and grey for disabled area of motion detection.

Item	Description
CH01~ CH4 / CH8	Selected channel motion detection function。
/ CH16	
Enable	Enable / Disable the motion detection
	function of this channel
Sensitivity	The sensitivity value is from 0 to 100. The
	higher value means higher sensitivity.
Motion Area	Enter to setup motion detection area
Alarm	Enable or Unable Alarm
Enable All Region	Select entire screen as detection area.

Disable All Region	Deselect entire detection area.
Trigger Setting	Popup Channel

6-5 Privacy Mask



Item	Description
CH01~ CH4 / CH8	Selected channel for Mask.
/ CH16	

6-6 Video Loss



6-6-1 Alarm setting

Item	Description
CH01~ CH4 / CH8	Selected channel Alarm function。
/ CH16	

Enable	Enable / Disable the Alarm function of this
Lilabie	channel

6-6-2 Trigger Setting

o o z miggor coming		
	In the live mode, if video loss of a channel is	
	detected, it will pop up the channel full	
Popup	screen. You can specify a warning window	
	display, 1: the main screen, 2: the second	
	screen.*1	
Popup Channel	When an event occurs, pop up the specified	
	channel.	

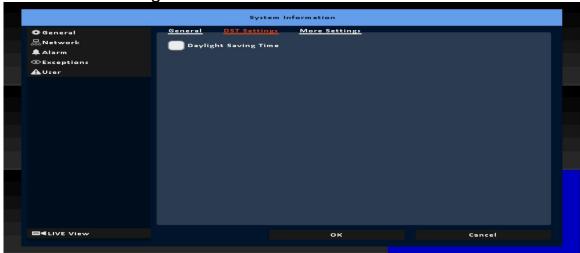
7 Configuration: System time / date, network, alarm settings ... etc.



7-1-1 General

Language	Specify the OSD language.
Resolution	selection screen resolution
TimeZone	Set up the time zone of the DVR, from
	GMT-13∼GMT+ 13
Date Format / Time For	MM-DD-YY/DD-MM-YY/YY-MM-DD AM
mat	PM xx:xx:xx
System Date and Time	Setup date and time of the DVR.
Mouse Pointer Speed	Setup the mouse cursor speed. The rig ht side of the slider means faster mou se speed. (Only valid for local configur ation)

7-1-2 DST Setting





Daylight Saving Time Setup

Item	Description
Beginning	Setup the beginning time of Daylight Saving
	Time.
Ending	Setup the ending time of Daylight Saving
	Time.

7-1-3 More Setting



NVR Name	The name of DVR to be shown while user s login from remote site.
Auto Lock	Set the number of seconds to wait. It ther e is no action, the panel will be automatic ally locked and the DVR logs out current user. When DVR logs out automatically, it only supports basic operations, such as pic ture freezing, picture, zoom, and auto switch channel, screen-split. To enter the setup menu, search menu, backup menu, status query, playback, and other operations, user s need to input the username and password to login in. Available timeout value is from 10 to 9999 seconds
Time Out	Seconds
Video Format Detect ion	Specify the format of video signal (auto-det ect, NTSC, PAL). The configuration require s DVR reboot to take effect

7-1-3-1 Auto Reboot

Item	Description
Disable	Enable / Disable Auto Reboot.
Every day	Setup the time of daily auto-reboot.
Every Week	Setup the time of weekly auto-reboot.

7-2 NetWork

There are five ways to connect to the network.

7-2-1 DHCP Setup

When DHCP is selected, IP address will be assigned by DHCP server automatically.

Notice: The IP address shown in this page is not the IP address obtained from the DHCP server. The IP obtained from the DHCP server is shown in the System Information Page.



7-2-2 Static IP Setup

Setup Static IP for network connection, the following informatio n is required.

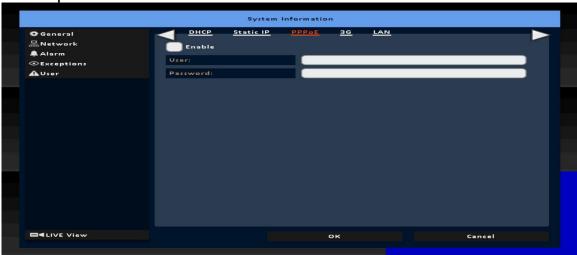


Iten	า	Description
Ena	ble	Enable / Disable Static IP function。
IP		Enter the static IP address provided by ISP
Sub	net	Enter IP address of Subnet Mask provided by ISP
Mas	sk	

Gateway	Enter IP address of the Gateway provided by ISP
DNS	Enter the DNS address provided by ISP.
	(Note: The correct DNS address must be entered for DDNS function).

7-2-3 PPPoE Setup

Select PPPoE for network connection, the following information is required.



Item	Description
Enable	Enable / Disable PPPoE function。
User	Enter user name provided by ISP
Password	Enter password provided by ISP

7-2-4 3G Setup

Using the USB 3G dongle to access the network

PS: only specific chip of 3G dongle is supported and the 3G dial-up features may not be compatible to some ISPs.



Item	Description
Enable	Enable / Disable 3G function.
Dial Number	Dial-up Number, offer by the ISP
PIN	Enter SIM card password
APN	Enter "internet" or other value offered by the ISP.
User	Enter ISP username
Password	Enter ISP password

7-2-5 Setup LAN setting



Item	Description
Enable	Enable / Disable LAN IP & DHCP function。
IP	Enter the static IP address provided by ISP

Subnet	Enter IP address of Subnet Mask provided by ISP
Mask	
Gateway	Enter IP address of the Gateway provided by ISP
DNS	Enter the DNS address provided by ISP.
	(Note: The correct DNS address must be entered for
	DDNS function).

7-3 Alarm

7-3-1 Alarm Status

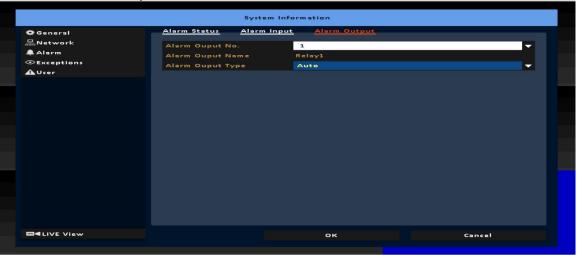


Item	Description
Enable	Enable/Disable sensor
	N.C: Sensor has not been triggered. When
Dolority	connected, sensor will be turned on
Polarity	N.O: Sensor has been triggered. When
	connected, sensor status will be turned off

7-3-2 Alarm Input



7-3-3 Alarm Output



7-4 Exceptions

When the system event occurs, give a notice or warning according to the settings of relay, buzzer, and receiver. If the buzz er box is checked, the buzzer continually beeps for only errors related to the video (such as hard drives can't write or not in stall the hard drive). The buzzer does not beep when other sy stem events, such as login, log out or boot, etc., occurs.



Item	Description
Duzzor	Specify whether the buzzer beeps when a
Buzzer	recording error occurs.
Polov	Specify the relay to be evoked when an
Relay	event occurs.
Mail To	Specify the receiver of e-mail setup

7-5 User

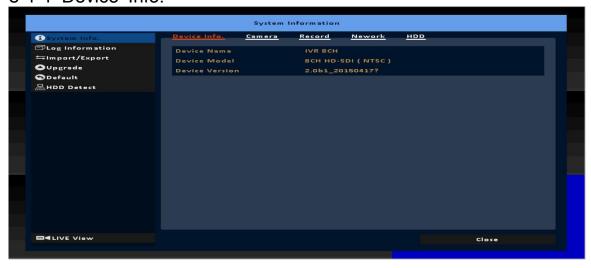
You can set the user password and permissions of 10 user accounts (1 admin + 10 users). These different accounts gives users different permissions of DVR features.





Item	Description
Enable	Check to activate the user's account.
Expire	Set the expire date of the user account
Name	Set up the username
Password	Set up the password. The password can be mixed of letters and numbers and is case-sensitive.
e-Mail	Set up user email

- 8 Maintenance: Upgrade, log, default etc.
- 8-1-1 Device Info.



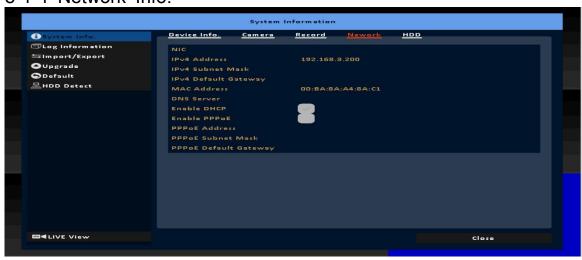
8-1-2 Camera Info.



8-1-3 Record Info.



8-1-4 Network Info.



Item	Description
IP	DVR IP address

	If there is no network connection, it will show "Network is not connected.
MAC	The DVR MAC address

8-1-5 HDD Info.



Item	Description
Recording Scheme	Display installed HDD recording type
Model	Display installed HDD model
Status	Display installed HDD recording status
Free Space	Display installed HDD Free space
Capacity	Display installed HDD capacity

8-2 Log Information

The DVR logs events automatically. The event list shows the I ogged events, event type, event detail, event filter (criteria), an d page number of the event list. If the event video is logged, there is a gray video symbol "▶" on the left of the event. Mo ve the cursor to event line and press "ENTER", or double-clic k mouse button, DVR playback this record video related to the event.

8-2-1 Log Search

The number of event is up to thousands, therefore, to set "se arch criteria" to facilitate rapid classification of events. If the c heckbox of start time and end time is checked, the event list will only display the events within the specific time slot. If the user unchecks some events and press the "OK ", the lists will

only shows checked events. If you uncheck the channels, the event list will filter out unchecked the channels.



8-2-2 Log Proc.



Item	Description
Export Logs	Save DVR system log to a USB flash drive or a
	remote PC.
Clear Logs	Clear all DVR system log.

8-3 Import / Export



Item	Description
Export	Export DVR configuration to a USB flash drive
Configuration	or a remote PC.
Import	Import configuration from a USB flash drive or a
Configuration	remote PC to DVR.

8-4 Upgrade



Item	Description
Upgrade Firmware	Upgrade DVR firmware through a USB drive.
	Please stop recording and backup DVR
	configuration before upgrading
	System will reboot automatically when the
	upgrade is done.

8-5 Default



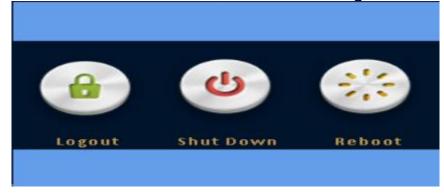
Item	Description
Reset	Reset system configuration.
Configuration	

8-6 HDD Detect

8-6-1 S.M.A.R.T Setting



9 Shutdown: Shutdown, reboot and logout.



10 APP Software Connection (Android for example):

 Go "Google Play" or "Android Market" (China) or APP store (iOS) to download the "Swift Connection"



4 (9)

2. Press the "+" key in the upper right corner to add a new connection.



< DVR

3. Give a Name of this connection and input network address \(\) port (default:80) \(\) Username (default : admin) and Password (Default : 123456), or press "Lan Search IP" to search DVR/IP CAM IP in the same network.



192.168.3.18.80 DVR/NVR 192.168.3.17.80 DVR/NVR 192.168.3.35.80 DVR/NVR 192.168.3.20.80 DVR/NVR 192.168.3.20.80 DVR/NVR 192.168.3.44.80 DVR/NVR 192.168.3.7.80 DVR/NVR

 Devices in the same network segment are going to be found and you can pick one of them but only the device which Swift Connection supported can be show on the screen. 5. Multiscreen can be chose in Live view

6. Video quality . mute and unmute audio

7. Searching by Time or Log files

8. You can search by time or event (log type) in the log search.



9. Highlights in the monthly calendar are those days which has video recording. Pick one of them and choose a start time to watch the recording.

10. Play Rewind . Forward . Pause and Start/Stop

11. Mute and unmute the audio

12. Switch multiscreen



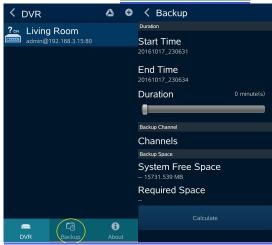
13. Choose a section of the recoding and back it down to your device



14. Other settings, such as PTZ \ Relay \ Zoom...etc.



15. Backup recording to your device



11 P2P Connection Setup

How to Setup

- On your DVR/IVR, please go to Network Setup page:
 Main control panel => Configuration => Network Setup
- 2. On lower part of Network Setup page, please input P2P Access Key for P2P and press Apply button.



Please press OK button on lower part of Network Setup page and return to Configuration level.

Please go to System Information page:Main control panel => Configuration => System Information



Under Network tag, you can find QR code, access key and expiry date for P2P feature.



For computer use, please login iWatchDVR.
 On prompting interface, please input P2P Access Key in Host field, input / modify the rest of fields as appropriate
 Click on Connect button



For mobile device (i.e., smart phone and tablet) users, please login APP "iWatch DVR2."

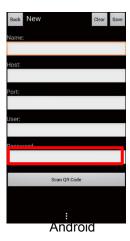
Click '+' (iOS) / (Android) icon on upper right corner to add a new connection.



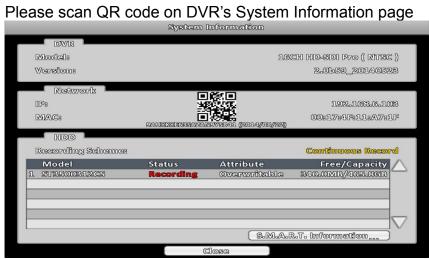


6. Click on Scan QR code button as shown on following picture.





7.



Access key information will be shown on Host field





Input / modify the rest of fields as appropriate.

Click on Save button on upper right corner.

Login with new settings