

User's Manual



H.265 36-Ch NVR with 8-bay Hard Disks

NVR-3685



www.PLANET.com.tw



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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio technician for help.

FCC Caution

To assure continued compliance, for example, use only shielded interface cables when



connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning

of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Energy Saving Note of the Device

This power required device does not support Stand by mode operation. For energy saving, please remove the AC-plug to disconnect the device from the power circuit. Without remove the AC-plug or switch off the device, the devices will still consuming power from the power circuit. In the view of Saving the Energy and reduce the unnecessary power consuming, it is



strongly suggested to switch off or remove the DC-plug for the device if this device is not intended to be active.

Revision

User's Manual of PLANET H.265 36-Ch Network Video Recorder Model: NVR-3685 Rev: 1.0 (July, 2016) Part No. EM-NVR-3685_v1.0



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Chapter 1. Product Description

Ideal Solution to Storing More Videos

PLANET NVR-3685, a new H.265 IP surveillance solution, is designed to work with PLANET H.265/H.264 cameras or ONVIF cameras for chain stores, public places and other security monitoring applications. The NVR-3685 is a Linux-embedded NVR that can connect up to 36 IP cameras and supports 8 hard disks. The unit employs RAID 0/1/5 to optimize the process of securing data easily and quickly.



Besides, the NVR-3685 features dual Gigabit Ethernet ports, eMap, dual local display, e-SATA, and PLANET DDNS. Once the NVR-3685, armed with a complete surveillance equipment, detects any suspicious events, you will be alerted with alarm via email; FTP, HTTP and TCP servers; and more. The NVR-3685 is thus able to further enhance security within the premises to protect your property. Moreover, it is fully compatible with mobile app and Internet Explorer on Windows operating system for multi-platform remote access.





Bandwidth Saving

With H.265 compression technology and embedded with 8 HDDs design providing up to 48TB, the NVR-3685 offers over 30% more of recording capacity than systems employing H.264 compression. This advance gives users larger storage space for longer durations of video recording.



Location Management with eMap

The eMap function helps visualize the layout of IP cameras in the surveillance network enabling you to quickly identify the location of each IP camera, especially when an alarm



occurs. Just upload the pictures of the monitoring locations and drag and drop the IP camera icons to the right place on the eMap.



High-resolution Local Display

The NVR-3685 comes with HDMI and VGA video output interfaces for dual local display. It can be connected to an HDMI monitor and VGA monitor separately, where live viewing contents or playback contents can be displayed simultaneously. With the dual local display function, users can monitor locally with high flexibility in a different display resolution, thus eliminating the need for a separate PC to view video from the unit. Besides, the NVR also can be operated with the USB mouse to configure and monitor all the system easily.



Real-time, Remote Monitoring

You are able to search and install Planet IP cameras via Web interface with more convenience and efficiency. Besides the Web interface, the NVR also supports aCV5 and iCV5 viewer app software for smart phone, so you can connect to the NVR anywhere, anytime.



Real-time, Remote Monitoring



Live View and CMS Administration

The Central Management System (CMS) of the NVR-3685 can manage up to 256 channels. With low bitrate transmission and unlimited group management, the CMS is able to view a maximum of 64 channels on one page and you may switch between groups to see up to 256 channels of live view or a maximum of 16 channels of playback on one page. The CMS of the NVR-3685 is good for chain stores via Internet, large installations in the LAN environment, or any environment where its control center is utilized to monitor via multiple NVRs.





1.1 Product Features

> Hardware

- Linux-embedded, highly-reliable standalone NVR
- Supports dual Gigabit Ethernet ports
- Supports VGA/HDMI dual local display
- Supports 8 SATA HDDs, up to 6TB per HDD
- Supports e-SATA

Video and Audio

- Simultaneous recording and live video streams
- Up to 36 channels of video recordings
- Supports H.265/H.264 compression
- Video resolution up to 5 megapixels (2560 x 1920)
- Supports throughput up to 300Mbps
- 2-way audio (G.711, G.726)

Video Recording/Backup

- Scheduled recording of 36 IP cameras simultaneously
- Samba path supported
- Supports RAID 0/1/5
- Exports recorded video files in the AVI format to USB device or local storage
- Instant event notification and recording

> Network Service

- Easy access with PLANET Dynamic DNS and built-in NTP server
- Supports PPPoE/DHCP/static network connection
- Supports low bit-rate connection for remote access

Easy Installation and Management

- ONVIF compliant for interoperability
- Location management with emap
- Supports multiple languages
- Auto discovered by management software
- Web-based and management utility for easy configuration



- Manages up to 256 channels through central management software
- Supports mobile phone remote view

*The remote control and joystick are optional



1.2 System Requirements

The following are the minimum system requirements for the system to operate Network Video Recorder (NVR):

	Microsoft® Windows® 2000 Professional, Windows® XP Professional
Operating System	(32 bit) or Windows® Server 2003 (32 bit) Browser Microsoft Internet
	Explorer 7 or above
	Minimum Intel® Pentium® 4 2.4 GHz or higher (Dual Core is
CPU	recommended); minimum 1GB of RAM (2GB or above is
	recommended)
Network	Minimum 10/100 Ethernet (Gigabit Ethernet is recommended)
	AGP or PCI-Express, minimum 1024 x 768, 16 bit colors. (We highly
Graphics Adapter	recommend to work above the 1024 x 768 resolution to get the full
	experience of the software.)



Make sure your display DPI setting is set to default at 96dpi.

To set DPI value, right-click on desktop, choose "Settings" tab >> "Advanced" >> "General"

1.3 Packet Contents

- 1 x NVR
- 1 x Power Cord
- 8 x SATA Cable
- 1 x Screw Packet
- 2 x Rack Mount
- 1 x Quick Installation Guide



1.4 Specifications

Product	NVR-3685
Hardware	
Ethernet	2 x RJ45, 10/100/1000BASE-T (failover)
USB Interface	2 x USB 2.0 and 1 x USB 3.0 for backup device and mouse
Video Interface	VGA and HDMI video interfaces
Audio Interface	1 x mic-in (phone jack 3.5mm), 1 x audio-out (phone jack 3.5mm)
Storage Device	8 x 3.5" SATA III hard disk connector, 1 x e-SATA connector
LED	Power, HDD, LAN, REC, Event, Alarm, Camera, DI and DO
Button	Reset
Buzzer	1 x buzzer
DI and DO	4 x digital in, 4 x digital out
Camera	
May Channels	Up to 36 IP cameras in H.265 only mode
	Up to 32 IP cameras in mixed mode
Camera Added	Manual/Auto Search/Auto Setup
Video	
Compression	H.265/H.264
Resolution	5M, 3M, Full HD, SXGA, VGA, QVGA
Max. Live View Frame	Mixed mode: 960fps
Rate (Local Display)	H.265 only mode: 1080fps
Max. Playback Frame	Mixed mode: 960fps
Rate (Local Display)	
Max. Live view Frame Rate (Remote)	Mixed mode: 960Tps
Max. Playback Frame	
Rate (Remote)	480fps
Max. Throughput	300Mbps
Crearchet	Preview snapshots in HDD or removable device
Snapsnot	Secret event energieste



	Back up to removable device
Audio	
Audio Type	2-way
Audio Format	G.711, G.726
Live View	
Display Mode	Live View, Playback, Full Screen
Split Screen	1, 4, 9, 16, 25, 32, 36 (H.265 mode), Full Screen
Full Screen	1/4/9/16/25/32/36
PTZ Support	Preset, tour, auto pan, iris, focus, speed and joystick
Playback	
Split Screen	1, 4, 9, 16, 25, 32, 36 (H.265 mode), Full Screen
Search Mode	Simple, graphic, event
Play Method	Play, Reverse, Pause, Seek, Pre I-frame, Next Frame,
	Search by Time or Event
Record	
Recording Mode	Scheduled recording of each camera
	 Round the clock, motion record mode, DI detection, event
	triggering
	Auto recycle
Monitor	
Dual Monitor	Displays the same contents, depending on max. channels
Monitor Resolutions	1920 x 1080, 1440 x 900, 1280 x 1024, 1024 x 768
Network and Configura	tion
Network Service	Fixes IP/DHCP/PPPOE/DIPS Report/UPNP/DDNS/DHCP Server
Notification	SMTP/HTTP/FTP/TCP
Triggers and Event	
Event Type	Motion
	Disconnection
	Digital Input
	Scheduled Triggering
	HDD Error



	Schedule-able Event Detection
Event Action	Display on Screen
	• DO
	Buzzer Alarm
	Snapshot
	Recording
	Mail
	• FTP
	• TCP
	• HTTP
Management	
Number of Groups	2 (Administrator and User)
Privileges	Live View, Playback, Record, Setting, PTZ, Two-way Audio
	Graphic local user interface (operated by mouse)
User Interface	Web browser (Internet Explorer 7 or above)
	CMS utility
Log Туре	System/event/bit-rate
Software Utility	Search utility, mobile app, CMS
Language	English, Traditional Chinese, German, Greek, Thai
Environment	
Power	115/230 AC, 60/50Hz, 8A (max.)
Consumption	350W
Operating Temperature	0~40 degrees C
Storage Temperature	-40~70 degrees C
Humidity	0~85% (non-condensing)



1.5 Physical Specifications

Front Panel





USB Port

LEDs	Description
PWR	LED on when system is ready
HDD	LED on when HDD is reading or writing
LAN	LED on when network is communication
REC	LED on when record schedule is on
Event	LED on when event detection schedule is on
Alarm	LED on when hard disk writes error
CAM	LED on when system has camera disconnected
Digital In (1~4)	LED on when digital input X is closed
Digital Out (1~4)	LED on when digital output X is closed
USB (USB2.0 x 2)	For connecting USB stick or mouse



Rear Panel



Connector	Description
USB (USB 3.0 x 1)	For connecting USB stick to backup
Reset	Press and hold reset button to factory default
HDMI	HDMI output
VGA	VGA output
e-SATA	Connect to e-SATA storage device
LAN1/LAN2 (Fail over)	10/100/1000Mbps network.
1/0	DI x 4 / DO x 4 (12V out, RS485 D+, RS485 D-, DI0~DI3, Ground,
1/0	DO0~DO3)
Audio	Audio out / Mic in
AC-In	Switch current voltage with 115V or 230V
Power	Switch to "I" for power on; switch to "O" for power off



Failover:

1. If both ports are connected to Ethernet, the system will adopt LAN1 first.

2. When LAN1 fails, the system will change to LAN2 automatically.



Chapter 2. Hardware Installation

2.1 Accessories Check



2.2 Installation

1. Remove all screws on the box.





2. Push up and remove the cover.



3. Remove the screws on the fixed plates of hard drives and case.





4. Take out the 1 and 2 fixed plates for hard drives.



5. Install the hard drives on the fixed plates with screws.







6. Place back the bottom of fixed plates of hard drives.



7. Latch the fixed plates of hard drives and case with screw.





8. Place back the upper of fixed plates of hard drives on the other.



9. Latch the fixed plates of hard drives and case with screws.







10. Connect the power cable to the hard drives.



11. Connect the SATA cable to the hard drives.





12. Put the cover back.



13. Assemble all screws to the box.







14. Latch the rack mounting ears on case with screws.



15. The HDD has been completely assembled.





Chapter 3. Connecting to the NVR

There are various ways you can connect to the NVR and below are the suggested methods for different network setups:

The NVR is placed in <u>a network with a DHCP server</u>: Connect to the NVR by using "PLANET IP Wizard II" Utility.

The NVR is placed in <u>a network without DHCP server</u> (or you are connecting to it directly): Access NVR with its default IP (192.168.0.20).

3.1 Using Device Search Utility

If the NVR is placed in a corporate network or a local area network where a DHCP server is already presented, please install the "PLANET IP Wizard II" utility from "Download" of NVR-3685 Web page.





To begin, launch the "PLANET IP Wizard II" utility from PLANET website and proceed with the installation.

🔂 Setup - PLANET IP Wizard II 🛛 📃 🗖 🔀
Select Destination Location Where should PLANET IP Wizard II be installed?
Setup will install PLANET IP Wizard II into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\PLANET IP Wizard II Browse
At least 9.7 MB of free disk space is required.
< <u>B</u> ack <u>N</u> ext > Cancel

Please click "Next" to continue.

1 Setup - PLANET IP Wizard II	
Select Additional Tasks Which additional tasks should be performed?	
Select the additional tasks you would like Setup to perform while installing PLA Wizard II, then click Next. Additional icons:	NET IP
< <u>B</u> ack <u>N</u> ext >	Cancel



Please click "Install" to start the installation.

🔂 Setup - PLANET IP Wizard II	
Ready to Install Setup is now ready to begin installing PLANET IP Wizard II on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files\PLANET IP Wizard II Additional tasks: Additional icons: Create a desktop icon	
< <u>B</u> ack	Cancel



Once the installation is completed, please click "Finish".



Please go to Start => Programs => PLANET IP Wizard II => PLANET IP Wizard II to run the search tool. Then you will see the utility start searching the network.



The NVR should be located and its IP address should be displayed; double-click on it and the program should automatically access the NVR's web administration page from your default browser.

PLANET IP Wizard II	Version 3.0.0.7974	In	nterface : 192.168.0.207	00
Device Title	IP Address	Port M	/AC	
NVR-3685	192.168.0.2	:0 80 C	00-30-4F-B0-00-02	
SEARCH 🔍	Camera:		User Name: admin	
	Model Name:	NVR-3685	Password:	
	Network:	Wired		
LAN	DHCP	ON		
	DIGL			
WIRELESS	WiFi:	Ethernet Only	No Signal	
	WiFi: Connection:	Ethernet Only Not Connected	No Signal	

You may change NVR's IP address by clicking on the button highlighted below.

SEARCH Q	LAN: Network: IP Address:	● Static IP ○ DHCP IP 192 .168 . 1 . 96	User Name: admin Password:
LAN 🛖	Subnet Mask:	255.255.255.0	
WIRELESS	Gateway:	192.168.1 .254	No Signal
EXIT	DNS1:	168.95.1.1	
EAII	DNS2:	0.0.0.0	
	~~	>>	



You will be prompted for the NVR's login information before proceeding to change device's IP address.

SEARCH Q	LAN: Network: IP Address:	● Static IP ○ DHCP IP 192 .168 . 1 . 96	User Name: admin Password: *****
LAN	Subnet Mask:	255.255.255.0	
WIRELESS	Gateway:	192.168.1.254	No Signal
EXIT	DNS1:	168.95.1.1	
EVII	DNS2:	0.0.0	
		>>	

3.2 Accessing NVR with its default IP address

The NVR comes with a pre-configured static IP address "**192.168.0.20**". However, it is only used when there is no DHCP server presented in the network. Connect the NVR and PC to your switch or hub, or connect the PC directly to the NVR using a crossover Cat5 Ethernet cable.



The PC that is connected directly to the NVR (or within the same local area network) should receive an IP from it. Simply access the NVR from your Web browser with NVR default IP address.





You should be prompted for the user name and password. Enter its default username "admin" and password "admin", and then click" OK" to enter the system.

Windows Security		
The server 192.168.0.20 is asking for your user name and password. The server reports that it is from NVR-3685.		
Warning: Your user name and password will be sent using basic authentication on a connection that isn't secure.		
	User name	
	Remember my credentials	
	OK Cancel	



Chapter 4. System

4.1 Main Console

This is the main control panel of the system providing live stream preview, system setup, two-way audio, playback, volume control, snapshot, start or stop monitoring, and PTZ controls.



4.2 System Information



4.3 Screen Division

Assign the preview screen to the expected layout division by clicking these buttons.



Switch to 1 division



	Switch to 4 division
	Switch to 9 division
16	Switch to 16 division
25	Switch to 25 division
32	Switch to 32 division
	Switch to Full screen, and click mouse right button to cancel Full Screen
٢	Logout/firmware version display

4.4 Sub-screen Functions

Digital Zoom	 Sub-screen window supported digital zoom; operating steps are as follows: 1. Click on preview image for switch current focus channel. 2. Scroll the mouse wheel; forward for digital zoom-in, and backward for zoom-out. 3. Switch division mode will reset digital zoom status to default.
 Display Division Display Ratio Full Screen Reset Division Default Snapshot Auto Switch Add New Division Group Popup Menu	 Click right button of mouse and select an option from the popup menu. 1. Change current channel display camera. 2. Change current division mode. 3. Switch to current channel display ratio mode. 4. Switch to Full Screen mode/Cancel Full Screen mode. 5. Reset all channels to default camera list. 6. Snapshot current display. 7. Enable/Disable auto switch. 8. Add new division group


Setting	Click it to set up system and view log
Playback	Click it to go to "Playback" page to search and display needed video
Snapshot	Click it to take a snapshot to the HDD; you can manage snapshots on "snapshot" page under system management
Audio Volume Control	Click it to switch between normal and mute
Schedule Monitoring	Click it to enable or disable scheduled monitoring; the recording will be stopped if it is disabled
Two-way Audio	Click it to start or stop two-way audio of selected channel
PTZ Control	Move PTZ camera direction by clicking direction buttons
PTZ Control Home	Click it to make camera return to home position
♦	Move the thumb to control speed
Tour	Select a tour setting from combo box and click "go" button to start tour, click "Stop" button to stop tour
Preset	Select a preset position from combo box and camera will move to preset position after clicking
IRIS : * Auto IRIS	Adjust camera's IRIS setting, or set it to auto
Focus : to Auto Focus	Adjust camera's focus setting, or set it to auto
Zoom : Com	Zoom-in or zoom-out focus
Pan : Auto Stop	Start camera auto pan or stop





For NVR quick installation, please refer to Chapter 10 Setup Wizard.





Chapter 5. System Setting

Click the setup button and select "System Setting" from pop-up menu to approach system setting dialog.





5.1 Camera Setup

5.1.1 Auto Setting

Click the "Auto Setting" button for adding cameras to system automatically, and maximum number of cameras depends on mixed mode or H.265 mode.

A							
B Auto Setting	Vendor	General V5	→ → Deter	+			
 Any 168.168.11.130 Any 168.168.10.140 	Model Name			ramatar			
Any 168.168.10.141	Model Name		Camera Pa	rameter			
	Camera Name						
	IP Address						
	HTTP Port	80					
	RTSP Port	554					
	Account	admin					
	Password		Show Passw	ord Re	solution	MAX	
						MAX	
	Add 🛃	Delete	🖬 Update 🛛 🚿	Clear			
	- Search						
			•				
	Vendor	Model Name	Camera Name	Search IP Address	MAC Address	HTTP Port	F
	Vendor	Model Name	Camera Name	Search IP Address	MAC Address	HTTP Port	- Ľ
	Vendor	Model Name	Camera Name	l Search IP Address	MAC Address	HTTP Port	
	Vendor	Model Name	Camera Name	l Search IP Address	MAC Address	HTTP Port	
	Vendor	Model Name	Camera Name	Search IP Address	MAC Address	HTTP Port	
	Vendor	Model Name	Camera Name	IP Address	MAC Address	HTTP Port	
🖉 Quick setup	Vendor	Model Name	Camera Name	Search IP Address	MAC Address	HTTP Port	
Quick setup	Vendor	Model Name	Camera Name	Search IP Address	MAC Address	HTTP Port	

After clicking the button, system will show the fuzzy search filter dialog. You could input the search filter with model name, IP address or MAC address, or you could keep them empty to search all cameras.

	Auto Setting
Model Name	
IP Address	
MAC Address	
Please enter the filt	ering rule or keep empty to search all
	OK Kancel



Auto setting could insert Intranet's cameras even these cameras are located behind several switch hubs. Besides, you could directly insert cameras on NVR's switch hub and then click the "Auto Setting"button to add them to system. Through "Auto Setting"function, you do not need to key-in any network IP address or sub-mask parameter. All you need to do is click the "Auto Setting"button to finish the job of inserting IP camera.

5.1.2 Template Setting

When you use "Auto Setting" or add a new camera, system will read the camera template from "Template Setting" to fill out the camera parameter.



After the template has been confirmed, you will no longer need to set up parameter of camera again in most cases. You could set up the quick template from camera setting page and only need to set the camera's resolution and frames per second. If you need to set up more details in template, please click the "Advanced" button to approach the template setting dialog.

	Template Setting 🛛 🗮	
Resolution	MAX	
FPS	MAX	
Rate Control	EVBR	
Quality	75	
Account		
Password	Show Passwo	ord
	OK 🔰 🔀 Car	ncel

Resolution	The new camera will try to fit the selected resolution. When you select		
	"Max", the camera will adopt maximum resolution. If you select		
	another resolution, the system will choose a resolution for the		
	camera.		



FPS	Set up frames per second for camera; system will try to set a near or		
	equal FPS to camera.		
Rate Control	Set up the rate control algorithm of new camera.		
Quality	If you select EVBR for new cameras, you could set up the then VBR		
	quality here.		
Account	Set up the default login user account of camera.		
Password	Set up the default login password of camera.		

5.1.3 Camera List

List all inserted IP camera model names and IP addresses. It is able to display detailed information and live streaming video by clicking the row of camera.



Check the box to make the camera available for video streaming; otherwise, the camera will be disabled if the check box is empty.



Switch Camera sequential

Click right button of mouse on the camera, and select another camera in the popup menu. System will switch to these two camera's settings.

Quick Setup

- 1. Select a camera
- 2. Click "Quick Setup" button.



3. Select an action:

Copy to:

Copy selected camera's settings to all channel or single channel

Switch To:

Switch selected camera and target camera sequential position.

Remove all:

Remove all camera settings.

5.1.4 Camera Setup

Key-in or modify camera information here.

Setting	
Vendor	General_V5 🔹 🕂 Detect
Model Name	Camera Parameter
Camera Name	
IP Address	
HTTP Port	80
RTSP Port	554
Account	admin
Password	Show Password
📃 Add	👕 Delete 🔚 Update 🗹 Clear

Vendor	You may select camera vendor or use ONVIF protocol for camera
	connection.
Detect	Check camera available and receive camera model name.
Camera Name	Key-in camera name.
IP Address	Key-in camera's IP address.
HTTP Port	Set up camera's HTTP port, default is 80.
RTSP Port	Set up camera's RTSP port for TCP streaming, default is 554.
ONVIF	Enable or disable WSSE suthentisation of collected compres
Authentication	Enable of disable woose authentication of selected camera



Account	Set up the login user name of camera.
Password	Set up the login password of camera.

5.1.5 Parameter Setting

	Camera Parameter
Base Picture	
Profile	h264/1536×1536
FPS	22
Protocol	ТСР
Rate Control	EVBR
Quality	75
Bitrate(1024~10000)Kbps	4096
Low Bitrate Setting	1
Low Bitrate FPS	22 - 🖾 As above
Rate Control	EVBR
Quality	75
Bitrate(128~2048)Kbps	384
c Enable Audio	
Audio Record	
📕 Two Way Audio	
Input Gain	80
Output Gain	80 -
L	
	OK 🎇 Cancel

Profile	Select video codec and resolution for live viewing and recording.
FPS	Select FPS for live viewing and recording.
Protocol	Select protocol HTTP/TCP and UDP.
Rate Control	Select EVBR or CBR for better video performance.
Quality	Select video quality by numbers.
Enable Audio	You have to enable audio for two-way audio function.
Audio Recording	Enable it for audio recording.
Two-way Audio	Enable it for two-way Audio function.



Input Gain	Adjust the gain to reduce the input audio noise.
Output Gain	Adjust the gain to reduce the output audio noise.



The parameter dialogs are different for each vendor. It depends on camera's capability.

Add Camera:

- 1. Click "Search" button and wait for search job to finish.
- 2. Select a camera on search result list.
- 3. Preview live streaming video on preview window to confirm current camera.
- 4. Click "Add" button to add selected camera into system.

Delete Camera:

- 1. Select a camera from installed camera list.
- 2. Click "Delete" button to remove selected camera from list.

Update Camera setting:

- 1. Select a camera from installed camera list.
- 2. Modify camera's setting at each setting fields.
- 3. Click "Update" button to save modified result.



Updated setting will write to disk after clicking "OK" on the bottom of the page. If you click "Cancel" button to leave setting page, system will ignore all your modified settings.

Clear button: Clear all setting fields.



5.1.6 Search Camera

Click "Search" button and system will list all cameras that can be searched in "Search List". You can click on each row to preview live video streaming. In addition, you can click on the header column for sorting the current row data.

Search					
Vendor	Model Name	Camera Name	IP Address	MAC Address	HTTP Port
SDK2	ICA-8500	ICA-8500	192.168.1.239	00:30:4F:86:D5:28	80
ONVIE	PLANET	PLANET	192.168.1.101	00:30:4F:67:02:68	80
SDK1	ICA-3550V	ICA-3550V	192.168.1.207	00:30:4F:AE:A2:D1	80
SDK1	ICA-5250	ICA-5250(v1)	192.168.1.241	00:30:4F:AF:E6:E8	80
SDK1	ICA-W3250V	ICA-W3250V	192.168.1.42	00:30:4F:00:30:FB	80
SDK1	ICA-5550V	ICA-5550V	192.168.1.31	00:30:4F:AB:C6:D5	80

5.2 Schedule Setting

Schedule setting allows you to set up different times for recording. You may define multiple recording types for each day or within 24 hours.







The step to configure recording schedule

Step 1. Select a camera:

Select a camera for schedule configuration.

Step 2. Select a weekday:

Select a weekday bar; system will list time periods with this weekday.

Step 3. Configure time period:

Add new period: Drag mouse cursor on blank area or click "Insert" button to set up

Configure period setting: Once new period is inserted, system will pop up period setting dialog. Adjust required parameters for start time, end time, pre-alarm and post-alarm when the period is set up for motion detection recording.

Step 4. Select a record mode:

Select a record mode from "Round the clock", "Motion detection", "DI detection" or "Event Detection" for this period. You should select a DI input source and define alarm condition when you select the "DI detection".

Step 5. Modify existing record schedule:

Click a period from weekday bar or select a period from list and then click "Configure" button.

Step 6. Remove a record schedule:

Select a period from weekday bar or list and then click"Delete" button.

Step 7. Copy a period to all:

Select a period from weekday bar or list and then click"Copy" button. The system will copy current selected weekday's periods to all weekdays.



Setting
C Time
Start Time 🛛 🛛 🗧
End Time 23:59
PreAlarm 03
PostAlarm 03 🔷
🖾 Event Force Record
O Round the Clock
Motion Detection
DI Detection
Event Detection
DI Setting
DL0 -
● False O True
🛫 OK 🛛 🎽 Cancel



5.3 Network Setting

🔏 Camera 📑 Schedule 🔍 Network 🔋 System 💧 User 🚿 Motion	n Detection 🔎 Address Book 👎 Notification
	UPnP
Obtain IP address automatically (DHCP)	Friendly Name NVR-3685- 00304FE02345
MAC Address 0013014F1E0123145	
IP Address 168,168,9,141	Port Range 0 * 0 (1~65535)
Subnet Mask 255.255.252.0	External IP Address http:///32768
Gateway 168.168.9.254	Server
Obtain DNS from DHCP	HTTP Port 80
Primary DNS 168.95.1.1	RTSP Port 554
Secondary DNS 8.8.4.4	RTSP Over HTTP
	Server Name no-10.com
Account <64Characters	Host Name California C
Password 64Characters	Account Contraction Contraction Contraction Contraction
	Password 64Characters
IP Address	Current IP unknow
Subnet Mask	DHCP Server
Gateway	Start IP 192.168.0.1 IP Pool 100
Status	IP Address 192.168.0.254
	OK 🔪 🔀 Cancel

5.3.1 Network

DHCP Setting	Check the "Obtain IP address automatically (DHCP)" to get IP		
	address from DHCP server automatically.		
MAC Address	Display MAC address of this NVR.		
IP Address	Input the fixed IP address if you have disabled the DHCP function,		
	and then click "Test" button to detect IP conflict.		
Subnet Mask	User defines.		
Gateway	User defines.		
Obtain DNS from	User defines.		
DHCP			
Primary DNS	User defines.		
Secondary DNS	User defines.		
DNS Setting	Check "Obtain DNS from DHCP" to get DNS setting from DHCP		
	server. It only works on DHCP when enabled. If "Obtain DNS from		
	DHCP" is disabled, you could key-in DNS server IP in the text box.		



5.3.2 PPPoE

Enable/Disable	Select the radio boxes to enable or disable PPPOE function.
Account Key-in login user name of PPPOE server.	
Password	Key-in login password of PPPOE server.
IP Address	Display current IP address which is assigned by PPPOE server.
Subnet Mask	Display current subnet mask which is assigned by PPPOE server.
Gateway	Display current gateway which is assigned by PPPOE server.
Status	Display PPPOE status.

5.3.3 UPnP

Friendly Name	Display UPnP friend name on network
---------------	-------------------------------------

5.3.4 UPnP Transversal

Enable UPnP Traversal to auto-request port mapping with router, and define maximum and minimum port value here.

Port Range	User defines.
External IP Address	User defines.

5.3.5 Server

Enable server option to start HTTP and RTSP server. When remote service is started, user is able to connect remote service via IE browser.

HTTP Port	Set up HTTP service port here. The default setting is 80.	
RTSP Port	Set up RTSP service port here. The default setting is 554.	
RTSP over HTTP Enable RTSP over HTTP function and the remote live stream		
	use HTTP protocol and HTTP port.	

5.3.6 DDNS

The NVR-3685 provides PLANET DDNS function to allow you to map a domain name to the dynamic IP address of a network device.

Sever Name	Select a DDNS server (e.g. PLANET DDNS).
Host Name	Key-in DDNS domain name.
Account	Key-in account of DDNS service.
Password	Key-in password of DDNS service.
Current IP	Click "Test" button to connect DDNS service and system will display
	current public IP address.



5.3.7 DHCP Server

DHCP Server function allows you to assign dynamic IP address to cameras in the same LAN.

The steps for configuring DHCP Server are as follows:

- 1. Enable DHCP Server check box.
- 2. Key-in a start IP or use default"192.168.0.1".
- 3. Select IP pool from 1 to 253 or use default 100.
- 4. Click "Lease List" button to show leased IP list.

5.4 System Setting

Nodel Name Division	Software Vie	raion 0.0000.1523	Auto Full Scre			
	Joitware ve		Language	English		
Device Title NVR-3685		0-30Characters	Auto Switch			
	2014-02-02 10:50:02		System Log	3	0	
urrent time	2014-07-01 10:50:27		Event Log	3	0	
	Manual	/ Setting	Bitrate Log	1	80	
kdjust	O Synchronize with NTP		- 🗖 Aùté Lingh-			
ITPServer	time.stdtime.gov.tw	a? Test	Password	n	_	-
NTP Sync Interval	1 Hour		×			
Nmezone	GMT+08 (Beljing, Hong Kol	ng, Shanghai, Singapore, Taipei)	• ID 147014504	_	_	-
aylight Saving Time	O Disable	Enable				
Daylight Saving Time Start			C Auto Ioster			
Daylight Saving Time End						
	2		B Auto install fo	ound camera		

5.4.1 Device Information

The "Device Information" provides the general information of the device such as firmware version and model name.

Model Name Display model name.	
Device Title	Key-in device title here.
Software Version	Display current firmware version



5.4.2 Date & Time Info

Server Date & Time	Display current system date-time.		
Adjust	Manual:		
	Click setting to approach date-time setting dialog and select current		
	date and time now; click "OK" to change system time or click		
	"Cancel" button to abort configuration.		
	Synchronize with NTP (default):		
	Enable synchronize date-time with NTP service.		
NTP Server	Key-in NTP server IP or domain name. If you use the domain name		
	to connect NTP server, the DNS service must be enabled.		
NTP Sync Interval	Select time period to synchronize with NTP service.		
Time Zone	Select the time zone of NVR location.		
Daylight Saving	Enable or disable daylight saving mode.		
Daylight Saving	Configure daylight saving start time; it works with daylight saving		
Start Time	mode when enabled.		
Daylight Saving End	Configure daylight saving end time; it works with daylight saving		
Time	mode when enabled.		
Daylight Saving	Configure daylight saving offset time with current time; it works with		
Offset	daylight saving mode when enabled.		
Auto Login	Enable auto login mode to login with defined user name and		
	password when system boots up.		
User	Key-in auto login user name.		
Password	Key-in auto login password.		
System Setting	Enable "Auto full screen" to switch to full screen mode when system		
	boots up.		
	1. Change display language from language combo box.		
	2. Adjust auto switch interval seconds.		
DIPS	Display device DIPS ID. Click "Test" button for test connection with		
	DIPS server.		
Recycle Days	Select log keep days		
Auto Install	Enable the function of auto install found camera.		



5.5 User Setting

dmin			а	Imin			admin		
	adm	ìn							
Jsername	adm	in							
Password					_				
Confirm Pas:	sword				_				
Description	adm	in	_	_					
🖾 Live Vie									
E 01	E 02	E 03	EI 04	E 05	EE 06	E 07	208	E 09	
🖾 Playbac									
E 01	E 02	E 03	E 04	E 05	EI 06	E 07	80 🗵	E 09	
🗄 Record	🖾 Setti	ing 🔀	PTZ	🕅 Two Wa	ay Audio				
						🔤 Add	🔒 Update	🍵 Delete	

You may manage all user accounts or groups for different functions to access cameras.

Group	Select user's login group.			
Username	Set up username for account.			
Password	Set up password for account.			
Confirm Password	Confirm the password is correct.			
Description	Describe the user or group.			
Live Viewing	Define the access permission for each user to have live viewing.			
Playback	Define the access permission for each user to play back camera.			
Record	Define user permission for recording.			
Setting	Define user permission for system setting.			
PTZ	Define user permission for PTZ controls.			
Two-way Audio	Define user permission for two-way audio.			
Add	Click to add user after keying-in the user information.			



Modify	Select a user first. After modifying user information, you can click		
	"Modify" button to update user information to setting.		
Delete	Select a user first and then click "Delete" button to remove selected		
	user from setting.		

5.6 Motion Detection Setting

🤏 Camera 🔡 Schedule 💿	Network 🏮 System 🚢 User 🚿 Motion C	Detection 🔚 Address Book 🗖 Notification
Camera		
Any 168.168.11.130 Any 168.168.10.140 Any 168.168.10.141		r sating
		Name O included Excluded Object Size(0-100) Sensitivity(0-100)
	Add E Delete	Update

You may set	up to ²	10 regions o	f each	camera	for motion	detection	settina.
rou may out	apio	i o rogionio o	1 00011	oumoru		4010011011	ootanig.

Select a camera	Click on camera list and select a camera to set up motion detection.
Add new motion	Click "Add" button to insert new motion window and then the new
detection	window will appear on the left-upper corner.
Enable motion	Check the window name to enable motion detection.
window	
Modify motion	Move mouse cursor to motion window border, and drag cursor to
detection area	resize motion window. Drag mouse cursor on motion window to
	re-position of motion window.
Remove motion	Click on motion window or window's name to set up focus window
window	and then click "Delete" button to remove it.
Modify motion	Click on motion window or window's name to set up focus window



parameter	and then edit its motion parameters. You must click "Update" button		
	to save modified values, otherwise the settings will be lost.		
Name	Key-in motion window's name.		
Include / Exclude	Include indicates system will detect motion inside of window area.		
	Exclude indicates system will detect motion outside of window area.		
Object Size	Set up motion detection object size whose value is between 0 and		
	100. The larger value indicates the object is bigger in the defined		
	detection area.		
Sensitivity	Set up motion detection sensitivity whose value is between 0 and		
	100. The larger value indicates the motion detection is more		
	sensitive.		

5.7 Address Book Setting

Add e-mail and other information to address book for sending e-mail alert.



Key-in the personal e-mail account information and then click on "Add" to add the information



to the address book; you may also click on "Update" to change the information or "Delete" to remove the account from the list.

5.8 Notification Setting

🛸 Camera 🔡 Schedule 💿 Network 🏮 System 🚢 User 🎢 Motion	n Detection 🛛 🚢 Address Book 🗖 Notification
Server	Server
Port	Port 21
Account	Account
	Password Show Password
	Path
From	Retry 1
Subject	RecycleDays
Body	
Retry 1	
Send Interval 10	
🖾 Send Mail Without Picture	Server
Server Require Authentication	
Server Require Secure Conntion(SSL)	Port
* Send Test	
HTTP Port	
Account	
Password Show Password	
	🔍 OK 🗙 🧩 Cancel

You may set up the notification to receive e-mails, send file to FTP server or HTTP CGI when the event is triggered.

0.1	in Cettinge	
	SMTP Server	SMTP sever IP or domain name.
	SMTP Port	SMTP service port number
	User Name	Login SMTP server user ID
	Password	Login SMTP server Password
	From	E-mail sender's name
	Subject	Mail's subject
	Body	Mail's body content
	Retry	Retry the number of times when mail fails to send out

SMTP Settings



Send Interval	Set the interval of each time when mail is sent out		
Send without picture	Do not attach picture with notification mail		
Server Required Authentication	The e-mail server needs Authentication		
Server Required Secure Connection	The e-mail server needs SSL connection		
Send Test Button	Send out a test mail to check whether Server information is correct or not		

HTTP Setting

HTTP IP	HTTP server's IP or domain name
HTTP Port	HTTP server's service port
HTTP User Name	Login HTTP server's user account
HTTP Password	Login HTTP server's password
HTTP CGI	HTTP server receive notification CGI path

FTP Setting

FTP Server	FTP server IP or domain name
FTP Port	FTP server service port
User Name	Login FTP server account
Password	Login FTP server password
Path	Upload picture or video path
Retry	Retry the number of times when upload fails
Recycle Days	Keep uploading failed picture or video in days

TCP Setting

TCP Server	TCP server IP or domain name.
TCP Port	TCP service port number.



Chapter 6. System Management

The system management is for you to set up the NVR for video image, return to default, firmware upgrade, event, and storage management. Click setup button and select "System Management" from pop-up menu to approach System setting dialog.

6.1 System Management

U System Management	- Disk Management	RAID Managen	nent Snapshot	Eve	nt Snapshot	- Samba Server	👗 Joystick	
Support Codec	Style				C Audio		4	(IN
Mixed	124-11010-010		1024×768 850		TIQUE (Goli)			
 H1265 	156yle		Nermal		(ettipetti (ekilin			50
-Image								
Driekters: So 🕞 🖛			-0					
General 50 🕀 💳								
Saturation 50 🗨 🖛			0		1			
			0					
			~					
		C Default	and the local difference of the	(Talanda)	and the second			
- Maintenance								
General Sectors		010	actory Default Setting					
E Selvio Selvio a			Backup					
			-					
Restore Setting			C+Inestore		and the second second			
Firmwate Upgrade					A PROPERTY AND INCOME.		Browse	Upgrade
System Berlink		a sugar the second second	🗇 Restart					
		(1)						
							🛫 ок	Cance

Support Codec	The NVR provides Mixed and H.265 mode.
	Mixed indicates the NVR is able to connect H.265 camera and
	H.264 camera at the same time. The supporting maximum channel
	is up to 32.
	H.265 indicates the NVR is able to connect H.265 camera only but
	supporting maximum channel is up to 36.
Resolution	Change monitor current display resolution and then confirm change
	result; the system will recover old resolution after 15 seconds.
Style	You may change the interface to Simple / Normal / Professional /
	Advance mode.
Image	Adjust monitor Brightness, Contrast, Saturation, Sharpness, and
	Hue value to get better display quality.



- Image -		1
Brightness 50	-0	
Contrast 25		
Saturation 50		
Hue 50 🗘	-0	
Defaul	t	

Maintenance

- maniferialice			
Default Setting	Factory Default Setting		
Backup Setting			
Restore Setting	Restore		
Firmware Upgrade		Browse	📓 Upgrade
System Restart	Restart		

Default Setting	Reset all settings to factory default value.
Backup Setting	Export backup setting file to removable storage device.
Restore Setting	Restore a backup setting file from removable storage device.
Firmware Upgrade	Select a firmware file from removable storage device and then click
	"Firmware Upgrade" button to begin updating firmware job.
System Restart	Restart NVR system.
Audio	Adjust audio input or output gain value for better audio quality.



6.2 Disk Management

The NVR supports up to eight 6TB HDDs installed in the system. You may also manage all USB storage devices on this page.

System Manag	jement 🛛 💻 Disk M	Management 🦳 🥮 RAII) Management	ඟ Snapshot	ඟ Event Snapshot	🚽 Samba Server	📥 Joystick
Device	Port	Model Name	То	tal Capacity	I Î		
🔔 sdb	SATA 1	ST2000DL003-9VT1	2000.40	GB		S.M.A.R.T	
🔔 sda	SATA 2	ST1500DL003-9VT1	1500.30	GB		🔫 S.M.A.R.T	
Fo	rmat						
Partition	Total Capacity	v Used Capacity	Used Percen	t Applica	tion Statu	15	
							🛫 OK 🛛 🎽 Car

Device List	Display all devices detected on NVR and their information.
Mount / Un-mount	Mount or un-mount USB stick.
Button	
S.M.A.R.T Button	Display the Hard Disk S.M.A.R.T status.
Format Button	Select storage devices with check box, and click "Partition" button.
	The system will remove all data and partitions on selected device
	and create a new partition.
Partition List	Display all partitions of selected device and their information.
	Clicking "Format" button will format selected partition to "ext4"
	format; all data will be lost.



6.3 RAID Management

System Manageme	ent 🛛 💻 Disk Ma	nagement	RAID	Management	🎫 Snapshot	Event Snapshot	: 📲 Samba	Server	loystick	
lone										
Level		Total Ca	pacity	Used Capacity	Used Percent	Status	Port]	Status	
		_			_	_		_		_
nichaw -						_				
ni nau	ting									
nt nav -	ting Port			57	Model Name			Total Ca	apacity	
nitrov -	ting Port SATA 1		1	51	Model Name 11500DL003-9VT1			Total Ca 1500,3	apacity O GB	
Auto Set	ting Port SATA 1		1	51	Model Name 11500DL003-9VT1			Total Ca 1500,3	apacity 0 GB	
Initnow	ting Port SATA 1		1	ST	Model Name 11500DL003-9VT1	-	-	Total Ca 1500.3	apacity 0 GB	
Jn/now Auto Set	ting Port SATA 1		•	51	Model Name f1500DL003-9v71			Total Ca 1500.3	apacity O GB	
Jni ndw Auto Set	ting Port SATA 1			51	Model Name 11500DL003-9VT1			Total Ca 1500.3	apacity 0 GB	
Inithow -	ting Port SATA 1		-	51	Model Name 11500DL003-9VT1			Total Ca 1500.3	apacity 0 GB	
Auto Set	ting Port SATA 1			51	Model Name f1500DL003-9vT1			Total Ca 1500.3	apacity 0 GB	

None	Clear all RAID configurations.
RAID 0	The best performance of storage read/write process.
RAID 1	Mirror mode, all data will be back up each other by the smallest
	storage size.
RAID 5	RAID 5 is RAID configuration which uses disk striping of parity.
Format	When RAID is created, you have to format it for recording.



If you add new disks into the NVR after creating RAID, these disks will be displayed here. You could click "Auto Setting" button to add these disks to RAID for spare disk.



6.4 Snapshot

You may save your video snapshot and save them to the HDD or any removable USB device.



Source Snapshot List:				
Search snapshot	1. Select a hard disk path			
image	2. Select a time period			
	3. Click "search" button			
	4. The search result will display in the list box.			
	5. Select a snapshot file name; the snapshot image will display on			
	the right of window			
Сору	Clicking "Copy" button will copy selected snapshot file to removable			
	device.			
Delete	Clicking "Delete" button will delete selected snapshot file.			
Destination Snaps	shot List:			
	1. Select a removable device path			
	2. System will show snapshot file's name of selected folder			



	3. Select a snapshot file name; the snapshot image will display on
	the right of window
Delete	Clicking "Delete" button will delete selected snapshot file.

6.5 Event Snapshot

Backup	System Management Disk Management Snapshot Event Snapshot Strapshot Event Strapshot Event Type Total Total Camera Total Time 2014/07/01 23:59 Search Time Event Log Input Device	Samba Server Joystick
		Bockup

Event Snapshot:

Event Type	Select trigger snapshot event type.
Input	Select DI input port number.
Device	Select the snapshot device ID.
Time	Select search time period.
Search	To search event snapshot based on the condition you set above.

Result Table:

Time Event Time.



Event Type	Triggered Event Type.	
Input	Event DI port number, if not DI event will fill -1.	
Device	Event triggered device ID.	
Snapshot Viewer	Select an event from search result table and click the "Play" button.	
	The snapshot video will display on the right of window.	
Next Frame	Click ">"button for next frame.	
Pre Frame	Click "<"button for pre-frame.	
Information	Display snapshot video information.	
Snapshot Button	Click "Snapshot" button and save snapshots to removable device.	
Backup Button	Clicking "Backup" button will back up this event video to removable	
	device.	

6.6 Samba Server

Name Server Path
Setting
Name
IP Address
Path
Account
Password
Add Modify 🛢 Delete

Name	Key-in Samba server name to identify server.
IP Address	Samba server IP address.
Path	Key-in Samba server recording path.



Account	Login Samba server account.	
Password	Login Samba server password.	
Add Button	Key-in all Samba server information and then Click "Add" button to	
	add to samba server list.	
Modify Button	Select a Samba server from list and then modify server's	
	information. When the modify job is done, click the "Modify" button	
	to save.	
Delete Button	Select a Samba server in the list and then click "Delete" Button to	
	remove it from list.	



Chapter 7. Event Setting

You may define each event alarm on a different day and actions for each camera or NVR system. Please refer to the operating instructions below.



7.1 Adding a New Event

- 1. Select a camera or local from tree list
- 2. Click "Add" button in the device list below.
- 3. Select an event from table.





Motion Alarm	Camera's motion detection. Please set the camera motion first.	
Disconnect Alarm	Lost camera connection.	
Digital Input_0 ~	Detected input.	
Digital Input_4		
Schedule Trigger	Triggered by schedule setting.	
Camera Tamper	Depend on camera's capability.	
Audio Detection	Depend on camera's capability.	
HDD Error Alarm	Failed recording or HDD error will send event alarm.	
Face Detection	Alarmed by face detection and you must configure face detection	
	function in the camera first.	
Object Detection	Alarmed by object movement and you must configure object	
	detection function in the camera first.	
Cross Line	Alarmed by detected object which crosses the line and you must	
	configure cross line function in the camera first.	

- 4. Click "Add" button in the Event Schedule List below.
- 5. Selecting event will detect weekdays and the time of each day.
- 6. Set up alarm detail parameter.



	Modify
Week Days	🖾 Wed 🔛 Thu 🔛 Fri 🔛 Sat
Start Time 00:00	End Time 23:59
Alarm Setting	
Alarm Condition	True
Motion ID	Default 💌
Alarm Seconds	5 💌
Merge Seconds	0
	OK Cancel

Weekdays	Select weekdays for event notification.
Time Period	Select time period for event notification.
Alarm Setting	Alarm Condition:
	For Motion event, true means alarm triggered by motion; false
	means alarm triggered by no motion.
	For DI event, true means alarm triggered by DI in open status; false
	means alarm triggered by DI in close status.
	For Schedule trigger, true means alarm is triggered during
	scheduled period; false means alarm triggered when not in
	scheduled period.
	Alarm seconds: Define the alarm time period when the event is
	triggered.
	Merge seconds: Set for merging the same two alarms between
	setting seconds.

- 7. Click "Add" button in the Action list below.
- 8. Select an action when event is triggered and system will execute it.



Add			
	Action Type	Description	
	Buzzer	Buzzer on Event Triggered	
	Digital Output	Trigger Digital Output on Event Triggered	
	Display on Channel	Display Message on Live Preview	
4	Record	Record video on Event Triggered	
5	Snapshot	Snapshot image on Event Triggered	
6	E-Mail	Send Notice Mail on Event Triggered	
	тср	Upload Images To TCP Site	
8	НТТР	Upload Images To HTTP Site	
9	FTP	Upload Images To FTP Site	
10	Preset	Go To Preset	
			H
		OK Cancel	

7.2 Modifying Existing Event Schedule or Output

Action

Modify Event Schedule:

- 1. Select an event from event list.
- 2. Select a schedule from event schedule list.
- 3. Click "Modify" button.
- 4. Modify setting values from schedule setting dialog.
- 5. Click "OK" button when the modification is done.

Modify Output Action:

- 1. Select an event from event list.
- 2. Select a schedule from event schedule list.
- 3. Select an action from "Action List".
- 4. Click "Modify" button.
- 5. Modify setting values from each Action setting dialog.
- 6. Click "OK" button to close dialog.





7.3 Deleting Existing Event Schedule or Output

Action

Delete Event:

- 1. Select an Event from "Event List".
- 2. Click "Delete" button in the "Event List" below.

Delete Event Schedule:

- 1. Select an event from "Event List".
- 2. Select an event schedule from "Event Schedule List".
- 3. Click "Delete" button in the "Event Schedule List" below.

Delete Action:

- 1. Select an event from "Event List".
- 2. Select an event schedule from "Event Schedule List".
- 3. Select an Action from "Action List".
- 4. Click "Delete" button in the "Action List" below.



When Add/Modify/Delete is done, you must click "OK" button and then leave the Event Setting page, otherwise all setting values will be rolled back.

7.4 Event Action Type

Buzzer	Buzzer works after event is triggered.
Digital Output	Select a device to change DO status after event is triggered.
	Set output to "True", DO will change to "Close" status when alarm is
	triggered.
	Set output to "False"; DO will change to "Open" status when alarm is
	triggered.



	Digital Output Camera 1 DO 0 False OK Cancel
Display on Channel	When event is triggered, system will display OSD string on selected channels.
Record	 When event is triggered, system will force selected channels record. 1. System must switch to "Schedule Monitoring" when event is triggered. 2. The selected channels must set to "Recording schedule" when event is triggered.



Snapshot	System will snapshot images with selected channels, and save
	snapshots to event snapshot folder automatically. You could search
	them on "Event Snapshot" page under "System Management".
E-mail	 1. Select channels for snapshot or record a file when event is triggered. 2. Select Snapshot or Record a period video file. 3. Set up Pre-Alarm seconds and Post-Alarm seconds for record file. 4. Select users to send notification e-mail when event is triggered.
ТСР	Send notification of TCP sockets to TCP server when event is
	triggered.
НТТР	Send notification to HTTP server when event is triggered.
FTP	1. Select channels for snapshot or record a file when event is triggered.
	2. Select Snapshot or record a video file in a specified time.
	3. Set up Pre-Alarm seconds and Post-Alarm seconds for recording.
	The system will upload file to FTP server when event is triggered.


	FTP
	Camera 001 002 003 004 005 006 007 008 009 Snapshot PreAlarm 2 V PostAlarm 1 OK Cancel
Navigation	Go to camera's preset position.
Рорир	Switch live division to specific group division.



Chapter 8. Log Viewer

8.1 System Log

stem Log 🛛 🔍 Event	Log 🔒 I	Bitrate Log					
ype Tot	tal						
2014/07/01 - 00:	00 🗘 ~	2014/07/01	• 23:59	🗘 Limit Record	.00 💌	📼 Search	
Time	l.	Log Type	l.	Remark			

Log Type	Select a log type to filter data.
Time	Set up search logs in time period.
Limit Record	Set up maximum number records of search result.
Search	Click "Search" button to start search; the search result will display in
	the table below.



8.2 Event Log

System Log 🔤 Eve	nt Log 📲 Bitrate Log	Į			
Event Device Total Time 2014/07/02	.og Type Total	 Input 2014/07/02 	Total •	Switch Camera C001 💌	Snapshot
		Limit Record 100 🔻	🔤 Search	Preview	
Start Time	End Time	Log Type	Device		
2014/07/02 17:40:33	2014/07/02 17:40:39	Motion Alarm	C001		
2014/07/02 17:40:39	2014/07/02 17:40:45	Motion Alarm	C001	No.	
2014/07/02 17:40:45	2014/07/02 17:40:51	Motion Alarm	C001		Call S
2014/07/02 17:40:51	2014/07/02 17:40:57	Motion Alarm	C001		With the second s
2014/07/02 17:41:49	2014/07/02 17:41:55	Motion Alarm	C001		
2014/07/02 17:41:55	2014/07/02 17:42:01	Motion Alarm	C001	CREAKER	
2014/07/02 17:42:01	2014/07/02 17:42:07	Motion Alarm	C001		
•		c	۲ کا Nisplay Count 7		
					🔮 OK 🛛 🎽 Cancel

Device	Select a Device for search filter.
Log Type	Select a log type to filter data.
Input	Set up DI input port search filter; only works on search DI event.
Time	Set up search logs in time periods.
Limit Record	Set up maximum number records of search result.
Search	Click "Search" button to start search; the search result will display in
	the table below.
Preview Event	Select an event log from log table. Event image will display in the
Images	window. You could click the play control buttons to preview event
	images.
Change Display	Select another camera ID from combo box. System will display
Channel	selected channel image in event time.
Snapshot	Insert USB dongle into the NVR first and click the Snapshot button
	to save it.



8.3 Bitrate Log

You may search bitrate for selected time period; it will show a different color of bitrate data as seen below.



Select a date	Click on the calendar with blue background days.
Bit-rate table	System will display the bit-rate log in the table.
Blue	Bit-rate is very low.
Green	Bit-rate is fine.
Yellow	Bit-rate is a bit high.
Orange	Bit-rate is very high.
Red	Bit-rate is over limit.





Chapter 9. Camera List

The Camera List page provides camera name, model name, main stream, second stream, audio, audio record, two-way audio, IP address, HTTP port, RTSP port, vendor and MAC address information; you can check/uncheck several columns on left side to show what you want to see.

When you select a camera on right side, information area will show the live image.





9.1 Search

You can search other camera via "Search" button and leave this page by clicking "OK" button.



Device Info	
Account	Set up the default login user account of camera.
Password	Set up the default login password of camera.
Show Password	Show the password without encryption.
RTSP Port	Set up RTSP port of camera; the default RTSP port is 554.
Update	Update account, password or RTSP port if it has been changed.



	Device Info Account admin Password Show Password RTSP Port 554			
Search				
Mode Name	Key in search filter with model name.			
Camera Name	Key in search filter with camera name.			
IP	Key in search filter with IP address.			
MAC	Key in search filter with MAC address.			
Search Seconds	Select seconds between 5 and 60 to search.			
Search	Begin to search Model Name Camera Name IP MAC Search Seconds 5			
Camera				
Installed	Show the number of installed cameras.			
Delete	Delete the camera that selected.			
Remove All	Delete all installed cameras.			



	Camera-				
	Installed: 8				
	Camera Name				
	1 303516(Tommy) 168.168.10.132 168.168				
	2 330516(Tommy) 168.168.10.133 168.168				
	Delete Remove all				
Information					
Use Seconds	Display the period time of search.				
Status	Display the action status of search.				
Found	Show the camera's count which is found.				
Selected	Select cameras to install.				
Select All	Select maximum camera that the machine can install.				
Cancel All	Unselect all cameras.				
	Use Seconds: 5 Selected: 8/8 Status:: Found: 114 Select: All Cancel all Vendor Model Name Camero Name IP Address MAC Address General_V6 ICA-5150 ICA-5150 166.166.10.67 00:30:4F100:57:CC General_V6 ICA-5150 ICA-5150 166.166.11.55 00:30:4F100:57:CE General_V6 ICA-5150 ICA-5150 166.166.11.2 00:30:4F100:57:CE				





Chapter 10. Setup Wizard

10.1 System Configuration

1. Install hard disks and make sure SATA cable and power cable are connected properly between main board and hard disks.



- 2. Turn on the NVR's power switch and wait until the boot process of system is finished.
- 3. The setup wizard will start automatically when the NVR is powered on for the first time. Please configure language, network and then click "Next Page".

	Setup Wizard
Language	English 👻
C Network	
🕱 Obtain IP add	ress automatically (DHCP)
MAC Address	00/30/4F/E0/23/45
IP Address	192.168.0.20 2 Test
Subnet Mask	255.255.255.0
Gateway	192.168.0.254
Obtain DNS fr	om DHCP
Primary DNS	192.168.0.212
Secondary DNS	168.95.1.1
DHCP Server	
Start IP	192.168.0.1
IP Pool	100 🗘 🗍 Lease List
IP Address	192.168.0.254
	Next Page 🎽 Skip All



4. Configure current time by manual or synchronization with NVR server. Select time zone and daylight saving time and then click "Next Page".

	Setup Wizard	
Date Time Info		
Current Time	2014-07-02 02:14:00	
Adjust	O Manual	
	Synchronize with NTP	
NTPServer	time.stdtime.gov.tw	2 Test
NTP Sync Interval	1 Hour	
Timezone	GMT (Dublin, Lisbon, London, Rey	vijavik) –
Daylight Saving Time	O Disable	Enable
Daylight Saving Time Start		
Daylight Saving Time End		
Daylight Saving Time Offset	00:00	÷
🔶 Pre Page	Next Page	5kip All

5. Select installed hard disks and format it.

				Setup Wizard			
	-			NUCLEAR AND AN	· · · · · · · · · · · · · · · · · · ·		
	Device	Device Type	Model Name	Total Capacity		-	
	🛁 sda	USB	silicon-power	8.01 GB	Partition	🦲 Unmount	
	🚢 sdb	SATA	ST2000DL003-9VT1	2000,40 GB	🗄 Partition		🔍 S.M.A.R.T
		-					
				Warning			
			This action will erase al	l data on disk, please confi	irm this procedure		
			<u>.</u>				
	19 41		Yes to All	Ignore No			
	Partition	Total Capac	ity Used Capacity	Used Percent Appli	ication		
1	•	Pre Page		Next Page			ap All



6. Search, add or remove cameras from camera list.

	s	etup Wizard				
Centre and	Use Seconds:		Selected		1/1	
	Status:	Stop				
				Select All	🗳 Cancel all	
	Vendor	Model Name	Camera Name	IP Address	MAC Address	E
	🕱 General_V6	ICA-5150	ICA-5150	168.168.11.47	00:30:4F:00:00:00	
Account						
Password Show Password						
RTSP Port 554						
e Bearch						
Model Name						
Camera Name						
IP						
MAC						
Search Seconds 5						
Saard						
						11.22
Installed: 0			-			
	(mat			15 532	10.00	-
					😪 OK 🛛 🎽 Cano	

7. After setup wizard is finished, the NVR will ask the first login. The default login user name and password are both "admin".





Chapter 11. Playback

You may search and play back the recorded video files with selectable time period and is also able to convert the video into AVI or back up the video files.

11.1 Search Recorded Video Files

Click

button to approach search dialog.

Normal Search:



- **1. Select playback date:** If there is record history data, system will set calendar's day to blue to identify which days has recorded files.
- **2. Begin search:** Click "Search" button to start search record file in selected date and system will draw search result in the grid.
- **3. Select playback camera and time period:** Select cameras from list, and drag on search result or edit start / end time from date-time picker control to define playback period.
- **4. Begin playback:** Confirm playback camera and period and then click "OK" button to begin playback.



Search by Event:

Contraction of the second				Device	Total 💌 L	og Type Total	-	Input	6	lotal	-
Itart Time	[2012/11	13 18 22 06		Time	2012/11/01	00.00	~ [2012/11/16			73.59	1
ind Time	2012/11/	13 18 22 12	1				Limit Record	100		Sewo	h
					Start Time	End Time	Log Type	Device	Inp	ut	Ke
amera.				2012/11/1	3 18 21 54	2012/11/13 18:22:00	D1 Alarm	C000	0		
Select Al				2012/11/1	3 18:22:00	2012/11/13 18:22:06	DI Alarm	C000	0		1111
Camera 1	Camera 2	Camera 3	Camera.4	2012/11/13	3 18 22 06	2012/11/13 18:22:12	DI Alarm	C000	0		
Trans		Camera 7	Camera 8	2012/11/1	3 18 22 12	2012/11/13 18:22:18	DI Alarm	C000	0		1
Callerd 5	Candra o			2012/11/13	3 18 22 18	2012/11/13 18:22:24	DI Alarm	C000	0		
Camera 9				2012/11/1	3 18 22 24	2012/11/13 18 22 30	DI Alarm	C000	0		
				2012/11/1	3 18:22:30	2012/11/13 18:22:36	DI Alarm	C000	0		
				2012/11/13	3 18:22:36	2012/11/13 18 22:42	DI Alarm	C000	0		
				2012/11/1	3 18:22:42	2012/11/13 18:22:48	DI Alarm	C000	0		
				2012/11/1	3 18:22 48	2012/11/13 18 22 54	D1 Alarm	C000	0		
				2012/11/1	18:22:54	2012/11/13 18:23:00	DI Alarm	C000	0		
				2012/11/1	3 18:23.00	2012/11/13 18:23:06	DI Alarm	C000	0		
				2012/11/1	18 23 06	2012/11/13 18:23:12	DI Alarm	C000	0		
				2012/11/1	3 18:23 12	2012/11/13 18:23:18	D1 Alarm	C000	Ø		
				2012/11/1	9 18:23:18	2012/11/13 18:23:24	DI Alarm	C000	0		
				2012/11/1	3 18 23 24	2012/11/13 18 23 30	Di Alarm	C000	0		111
				1							P
										Di	sbish i

Input search filter first by clicking the "Search" button; the search result will display on the list as shown above. Select a log that you need to play back. System will fill the event period automatically, and select which cameras you need to play back together.

Click the "OK" button when the search is done.



Simple Search:

Start Time	~	2012/11/	16 00:00:00	
End Time	13	2012/11/	16 23:59:59	Ð
Camera ——				
Select All				
🗌 Camera 1		amera 2	🗌 Camera 3	🗌 Camera 4
Camera 5		amera 6	🗌 Camera 7	Camera 8
🗌 Camera 9				

Select playback period from date controls directly and select which cameras will play back. Click the "OK" button when the search is done.

11.2 Playback Control Buttons

Parameter	Description
	Play video forward
- 11	Pause playing video
	Stop playing video
	Play video backward
K	Seek to previous frame when in pause mode



	Seek to next frame when in pause mode
O	Close playback and return to live view
	Change of playback speed
Volume ◀ ◀≫	Adjust playback audio volume
	Select play audio way as shown below
	1. Mute: Mute sound output
	2. Live Audio: Play live focus channel sound
	3. Playback Audio: Play playback sound
57	Switch display mode to full screen and right-click mouse to
	return to normal mode
	Take a snapshot to hard disk

11.3 Converting into AVI File

- 1. Click button to open search dialog.
- 2. Select convert camera(s) and time period for converting
- 3. Select converted files destination folder and then click "OK".



11.4 Backup Video File

- 1. Click button to approach backup dialog.
- 2. Select backup camera(s) and time period for backup.
- 3. Select backup files destination folder and then click "OK".



Chapter 12. E-map

Switch to "**Professional**" or "**Advance**" style and add E-map to primary or secondary toolbox. Add image and camera to E-map; E-map could display camera's position and record status. Double-click on camera icon and live preview division will switch to selected camera.

E-map Setting: Click "Setup" button on left-up corner to launch E-map setting dialog.



Change Map: Click "Change Map" and select a map image from removable device.

Add Camera: Enable camera's check box and camera will display on left-top corner. Drag camera to the current position on map.

Remove Camera: Disable camera's check box.

Rotate Camera: Right-click mouse button on camera icon.

Switch Live Preview: Double-click on camera icon.









Chapter 13. Web Remote Management

The NVR is able to be viewed from Internet Explorer when the network is available. You can have live view or playback, and most of the functions are the same as the NVR system.

13.1 Connection to NVR

For the first-time connection, you need to install the ActiveX control if it appears on your web page as shown below.



Information Bar Help

After installing the ActiveX component, login the system on pop-up window.

Windows Security		×		
The server 192.168.0.20 is asking for your user name and password. The server reports that it is from NVR-3685.				
Warning: Your authentication	user name and password will be sent on a connection that isn't secure.	using basic		
	User name Password Remember my credentials]		
		OK Cancel		



Please login your username and password and then you will see the "Select View Channel" window as shown below.

Select View Channel	
	OK Cancel

You may select channel(s) you would like to view on your computer. Please also check the "Low Bitrate" to reduce the bandwidth consumption on IE.

School 1169 Challen	
 ICA-8500 192.168.1.9 ICA-8500 192.168.1.239 ICA-4200V 192.168.1.240 ICA-3260 192.168.1.240 ICA-HM127 192.168.1.225 ICA-HM718 192.168.1.225 ICA-HM718 192.168.1.129 ICA-3350 192.168.1.108 Any 192.168.1.119 ICA-HM101 192.168.1.126 ICA-3350V 192.168.1.110 ICA-5550V 192.168.1.194 Camera 192.168.1.4 	

Click on "OK" to see the live view.



13.2 Live View on Internet Explorer

The picture below is the live view on IE, which is exactly the same as NVR system.



13.3 System Information



13.4 Screen Division



Switch to 1 division



	Switch to 4 division
	Switch to 9 division
116	Switch to 16 division
K Z	Switch to Full screen and right-click mouse to cancel Full Screen.
()	Logout / firmware version display

13.5 Sub-screen Functions

Show Live Camera Remove Camera display Digital Zoom Snapshot Fullscreen Restore division default Popup Menu	Right-click mouse to select an option from the popup menu.
Show Live Camera	You may select any connected camera to display on selected channel
Remove Camera Display	You may remove the camera from selected channel
Digital Zoom	You must enable this function to zoom the selected camera on the Web
Snapshot	Take a snapshot of selected channel
Full Screen	Make full screen of selected channel
Restore Division Default	Restore to default division when you finish full screen view
₩,	Click it for System setting / System Management / Event Setting/Log Viewer
	Click it to go to "Playback" page



Snapshot	Click it to take a snapshot to the HDD; you can manage snapshots on the "snapshot" page of system management
Audio Volume Control	Click it to switch between normal and mute
Schedule Monitoring	Click it to enable or disable schedule monitoring; the recording will be stopped if it is disabled
Two-way Audio	Click it to start or stop two-way audio of selected channel
PTZ Control	Move PTZ camera direction by clicking direction buttons
PTZ Control Home	Click it to make camera return to home position
\$	Move the thumb to control speed
Tour	Select a tour setting from combo box and click "go" button to start tour; click "Stop" button to stop tour
Preset	Select a preset position from combo box and camera will move to preset position after clicking
IRIS : * Auto IRIS	Adjust camera's IRIS setting, or set it to auto
Focus : the Auto Focus	Adjust camera's focus setting, or set it to auto
Zoom : RARA	Zoom-in or zoom-out focus
Pan : Auto Stop PAN	Start camera auto pan or stop



13.6 Playback on Internet Explorer

	Click it to go to "Playback" page
	Play video forward
	Pause playing video
	Stop playing video
	Play video backward
	Seek to previous frame when in pause mode
	Seek to next frame when in pause mode
	Close playback and return to live view
	Change of playback speed
Volume ◀ ◀ ♪	Adjust playback audio volume
i n	Convert into AVI; please see chapter 9.3 for information
())	Select play audio way as shown below 1. Mute: Mute sound output 2. Live Audio: Play live focus channel sound 3. Playback Audio: Play playback sound. Mute LiveAudio Playback Audio
\$	To select which information you would like to show as seen below Show Date Show Time Camera Name Subtitle
	Search recorded video files; please see chapter 9.1 for information
E 0	Take a snapshot to hard disk
	Back up video files; please see chapter 9.4 for information