

D1BD



speco technologies®

Directions

ONSIP D1BD is designed for indoor use only. When using ONSIP D1BD in an outdoor or equivalent environment, you must use a water-resistant housing for the installation.

Be careful not to cause any physical damage by dropping or throwing the ONSIP D1BD. Especially keep the device out of reach from children.

Do not disassemble ONSIP D1BD. You will void the warranty when disassembled.

Use only 12VDC power adapters.

If you would like to use the ONSIP D1BD for security, monitoring, please check the legal regulations within the country.

Caution

Any changes or modifications to this device could void the warranty.

Revision History

Date	Rev No	Description
Dec 6 th , 2013	1.0	First manual revision creation.

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1. Introduction

1.1. Overview

The ONSIP D1BD is a single channel IP video encoder which transmits synchronized video data in real time with D1 resolution at full frame rate. This is possible through multi-codec (H.264, MJPEG) technology, which provides high quality video with highly compressed data streams. The ONSIP D1BD can be connected, controlled and monitored from a remote location through an IP connection over the internet or intranet.

The ONSIP D1BD is easy to install and owner will experience cost and space savings in the installation owing to the state of the art technologies embedded in the system. Based on Embedded Software Solution (Embedded Web Server, Embedded Streaming Server, Network Protocol), the ONSIP D1BD ensures unprecedented performance and stability to be an ideal video server solution for system integration solutions.

1.2. Specification

Category	Sub-Category	Details
Video	Compression	H.264/MJPEG
	Resolution	<ul style="list-style-type: none"> • NTSC (30 frames/sec Max.) : 704x480, 640x480, 704x240, 352x240, 176x112 • PAL/SECAM (25 frames/sec Max.) : 704x576, 640x480, 704x288, 352x288, 176x144
Network	Interface	RJ-45, 10/100 Mbps
	Access network	Static, DHCP, PPP/PPPoE
	Application	IPv4/6, TCP, UDP, IGMP, ICMP, ICMPv6 etc.
I/O	CVBS	Video input
Power Supply	DC Adapter	12V DC adapter
Motion Detection	3 zones	Arbitrary shape with independent sensitivity
Upgrade	Firmware upgrade over IP network	
Administration	Remote administration over IP network	
Client & Viewer	Web Viewer	Simple viewing over internet explorer
	Speco-NVR	Standard VMS software
Dynamic IP support	DDNS support	Supported
Security	Video stream encryption	
	ID and Password protection	
	IP filtering for restricting administrative	
Time management	Sync to PC	Synchronize to PC only once
	Manual	Manual time setting
	Internet Time Server	Synchronize to Time Server
	DLS	Daylight savings
SDK support	Active-X	
	HTTP	
	Source filter	

1.3. Applications of ONSIP D1BD

- Security surveillance (buildings, stores, manufacturing facilities, parking lots, banks, government facilities, Military etc.)
- Real time Internet broadcasting
- Remote monitoring (hospitals, kindergartens, traffic, public areas, etc.)
- Remote Learning
- Weather and environmental observation

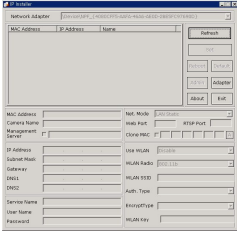
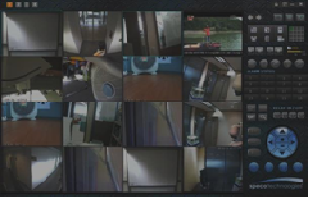
2. Product Description

2.1. Contents

Open the package and check if you have the followings:

Components	Description	Remarks
ONSIP D1BD	ONSIP D1BD Encoder	
Quick Reference Guide	Quick installation guide	

2.2. Preview

ONSIP D1BD	ONSIP-Installer	VMS Software (Speco-NVR)
		
H.264 1CH IP Encoder	PC software to allocate an IP address to the ONSIP D1BD	PC software to view and record the A/V streaming data transmitted from ONSIP D1BD

2.3. Physical description

2.3.1. External View

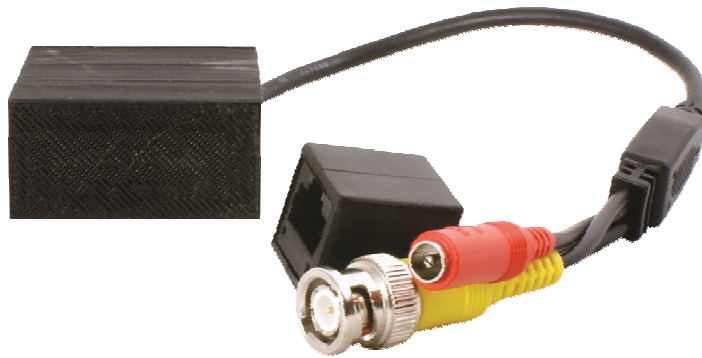


Figure 2-1. External view of ONSIP D1BD

2.4. Functional Description

- **RJ-45:** 100Mbps Ethernet (RJ-45).
- **12VDC Input.**
Apply power through 12VDC Input.
- **CVBS Video In:** Connect conventional analog video signal.

3. Getting Started

3.1. PC Requirement

AV streaming data received from ONSIP D1BD can be decoded or stored in a PC running the Speco-NVR program which is a viewing & recording program for a PC. Minimum requirement of the PC is described below:

	Minimum	Recommended
CPU	Pentium IV 3Ghz or above	Dual Core 3Ghz or above
Main Memory	1GB or above	2GB or above
Operating System*	Windows XP or later	Windows XP / 7
Web Browser	Internet Explorer 6.0 or above	Internet Explorer 8 or above
Graphic Card	64MB or above	256MB or above
Network	100 Base-T Ethernet	100 Base-T Ethernet

* Operating Systems supported: Windows 2000 Professional, Windows XP / Vista / 7

3.2 Quick Installation Guide

1. Connect PC and ONSIP D1BD to the network.

- 1) Prepare a PC to run programs for the installation and video connection
(PC is needed to assign an IP address to ONSIP D1BD)
- 2) Figure 3-1. The DC power is applied through DC adapter.

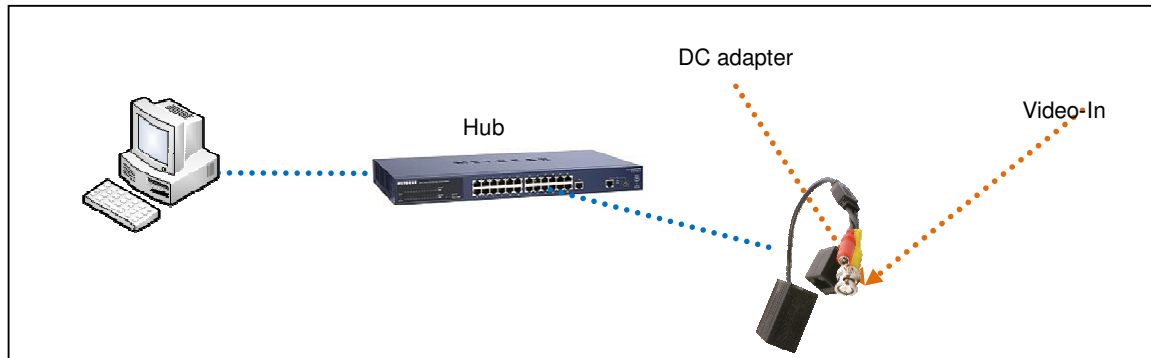


Figure 3-1. Power and network connection

2. Install Speco-NVR

Speco-NVR is a multi-channel VMS program for to IP camera or Video server. Install Speco-NVR on a remote PC to connect to these products. It is needed to assign connection before connection. Insert the CD provided with the product into the PC and install Speco-NVR.

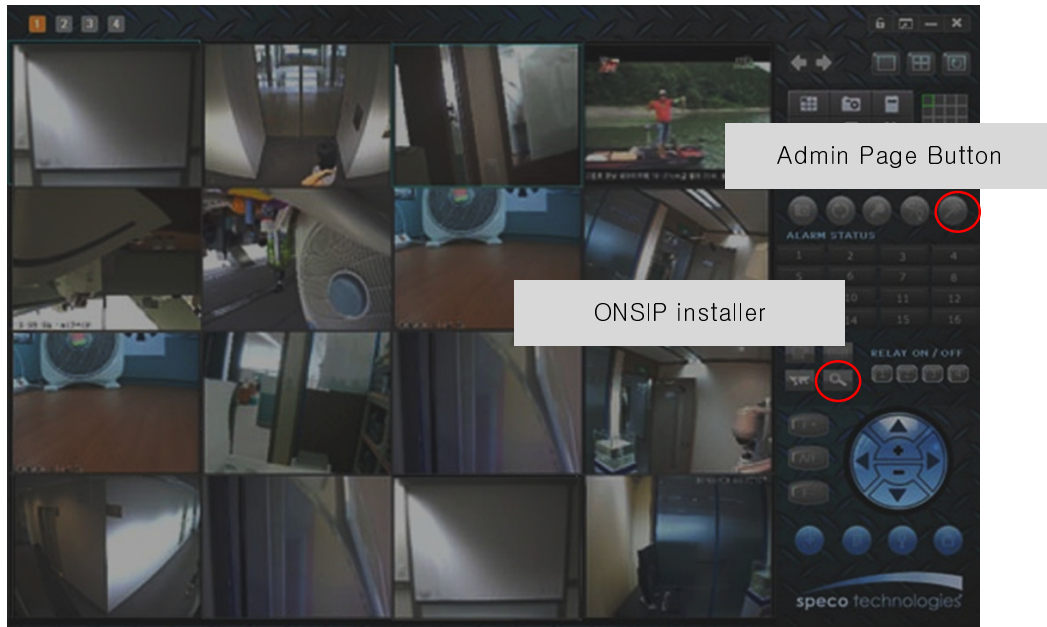
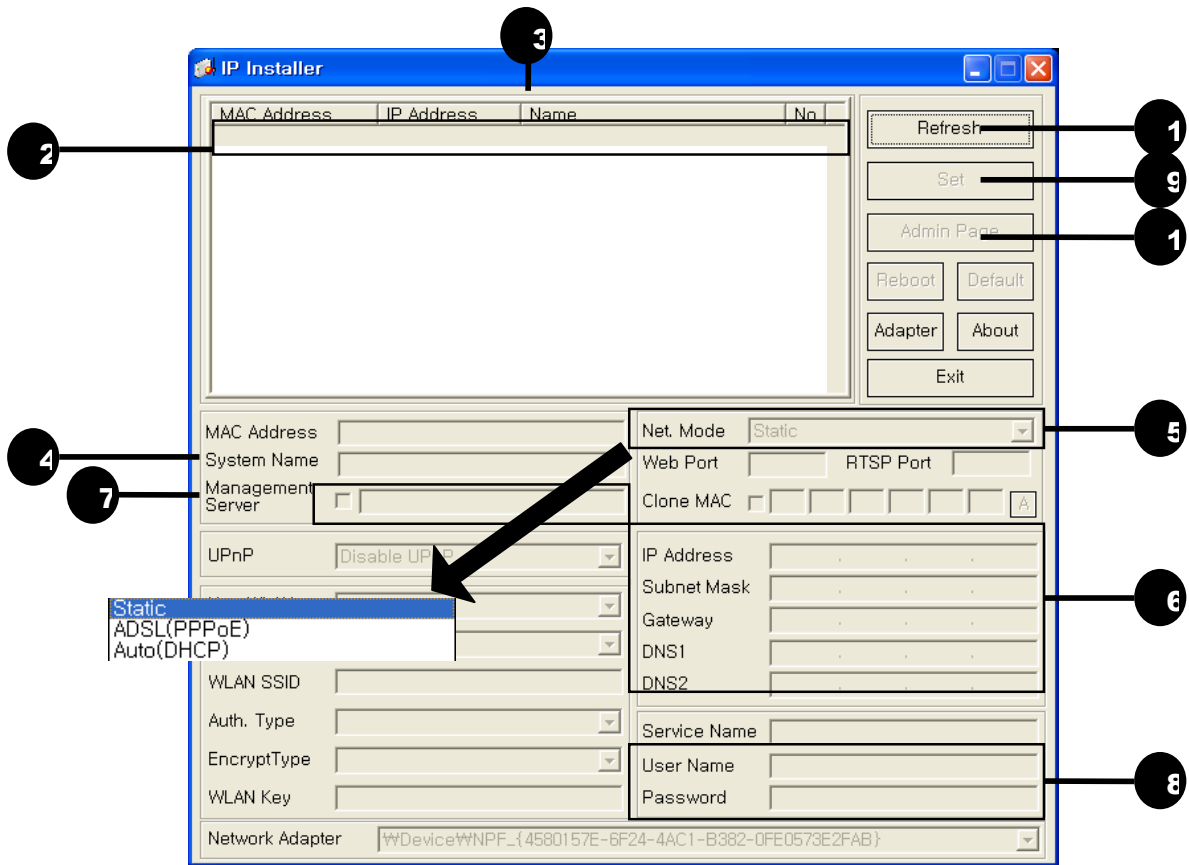


Figure 3-2. Speco-NVR

Follow the sequence below for setting the IP parameter

- i) Run ONSIP installer
- ii) Click ① in ONSIP installer window.> Double click on ② > Fill in ④ > make a selection in ⑤ > Fill the parameters in ⑥
- iii) Click on ⑨ to apply the settings.
- iv) You can connect to admin page by clicking on ⑩.



Click on the field in ③ for sorting and rearranging the list.

Select network mode that best suits from the drop down list in ⑤. You can choose either Static or ADSL and Auto (DHCP), respectively. If ADSL and Auto are selected, the fields in ⑥ is deactivated.

In case of ADSL, fill the User Name and Password in ⑧ with the values provided by your ISP.

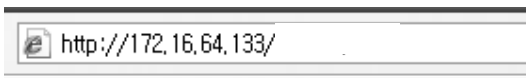
If DDNS service is needed, Check at the box and fill the empty field with hostname you want in ⑦.

3. Remote video connection to ONSIP D1BD

1) Connection through Web Viewer

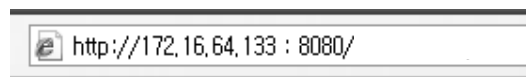
Web Viewer offers simplest way of video connection to ONSIP D1BD. For video connection, enter the IP address of ONSIP D1BD in the URL field of Internet Explorer as:

[e.g.] Port 80



The default port 80 can be omitted

[e.g.] Port 8080



Note: Active-X module should be installed on your PC before actual connection. If your PC is not connected to the internet, you cannot download Active-X module. Most convenient way of installing the Active-X module is installing Speco-NVR which is available from the CD or our web site.

Connection to Admin Page

Basic Control Buttons

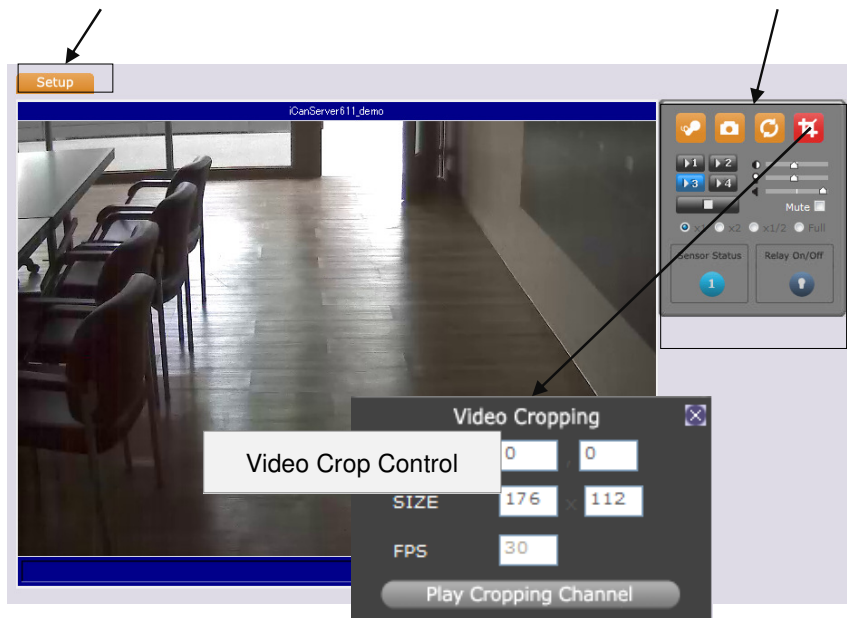


Figure 3-3. Web Viewer

Default ID and password of Admin Page are **admin,1234**. For more detailed information, please refer to the [\[Configuration_Guide\]](#) Guide.

2) Connection through Speco-NVR

Click the camera assignment button for setting camera address. Input the description, address, Ch#, User ID, Password and port and then click the save button. After assignment procedure, you must click the SAVE button. You can see the live video when you click the live view button as below. When you exit Speco-NVR, you have to input the ID/PW, admin/1234. Details for the Speco-NVR can be found in [Speco-NVR User's Guide].

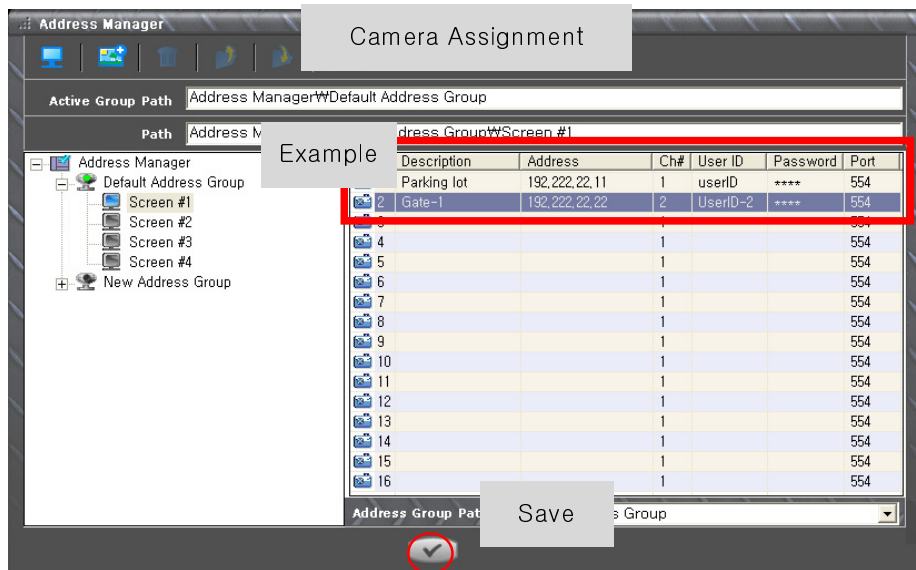
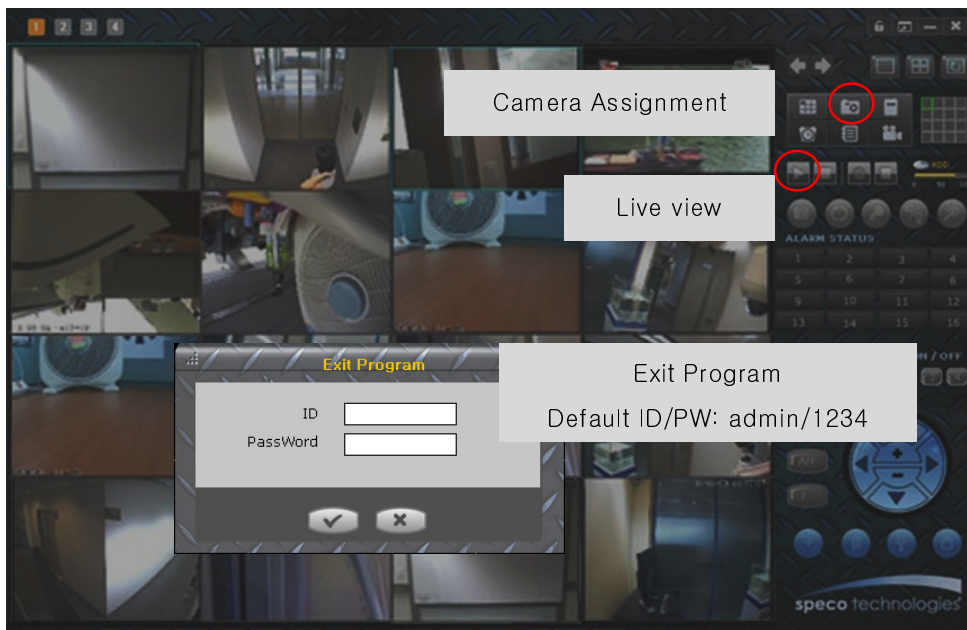


Figure 3-4. Speco-NVR

4. Additional settings through connection to the Admin Page

All the parameters of product follows factory default values. For more sophisticated target application it is needed to change parameters. The admin page can be connected through

"[http://IP address:HTTP port number](#)"/admin.htm

It is needed to enter ID and password of the administrator. Default ID and password are **admin,1234**. It is highly recommended to change the ID and password to prevent illegal access to the unit. For more detailed information regarding of the Admin Page, please refer to the [\[Configuration_Guide\]](#).

4. Troubleshooting

4.1. No power is applied

- DC adapter

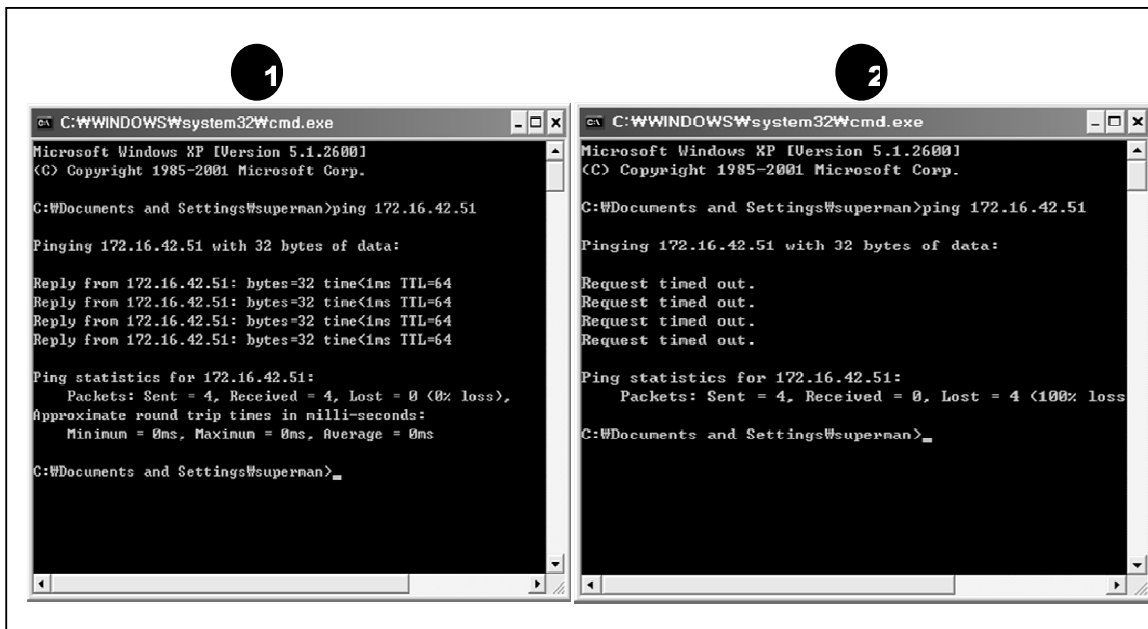
The power and network connection should be made through separate cables. It is recommended to use a DC adapter supplied by Speco Technologies. In case of replacing the DC power supply, make sure that the power supply meets the power requirement of the unit to prevent damage or malfunction.

4.2. Cannot connect to the Video

Check the status of the network connection through PING test.

Try the following on your PC:

- Start > Run > Cmd > Ping IP address (Ex : Ping 172.16.42.51)
- If "Reply from ~" message is returned (○ in the figure below), the network connection is in normal state. Try connection to the video again. If the problem persists, or refer to other troubleshooting notes.
- If "Request timed out" message is returned (○ in the figure below), the network connection or network setting is not in normal state. Check the network cable and settings.



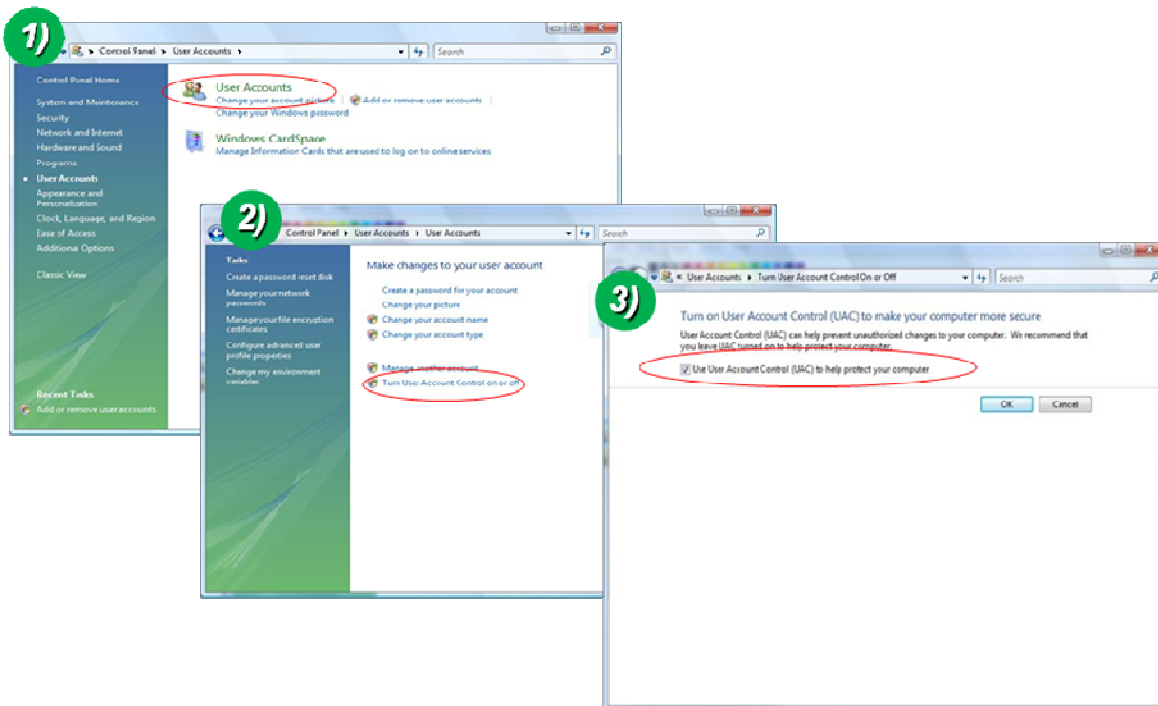
4.3. Windows Vista or Windows 7

Windows Vista and Windows 7 users need to configure UAC (User Access Control) and Privilege Level for proper recording and still video capture in Speco-NVR and Web Viewer.

<Windows Vista>

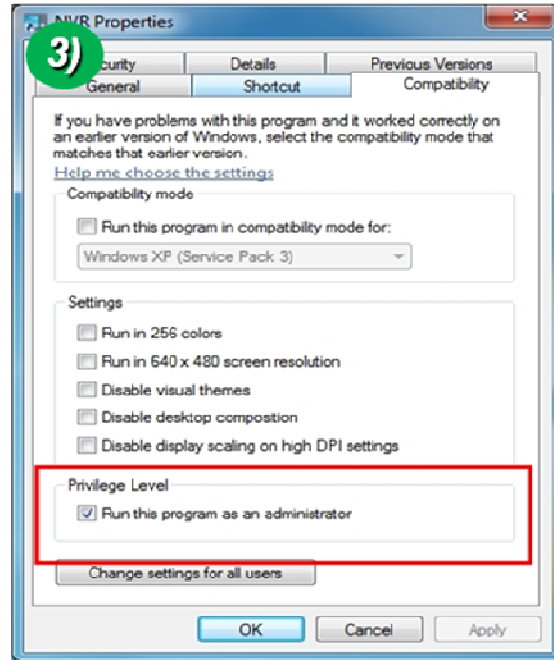
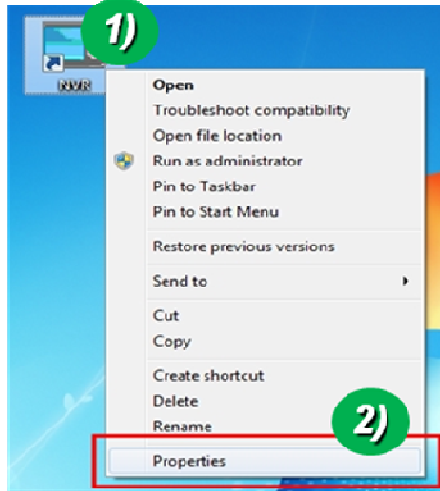
1. UAC (User Access Control) configuration

- 1) Double-click "User Accounts" in control panel
- 2) Double-click "Turn User Account Control on or off"
- 3) Uncheck "Use UAC to help protect your computer"



2. Privilege Level Control

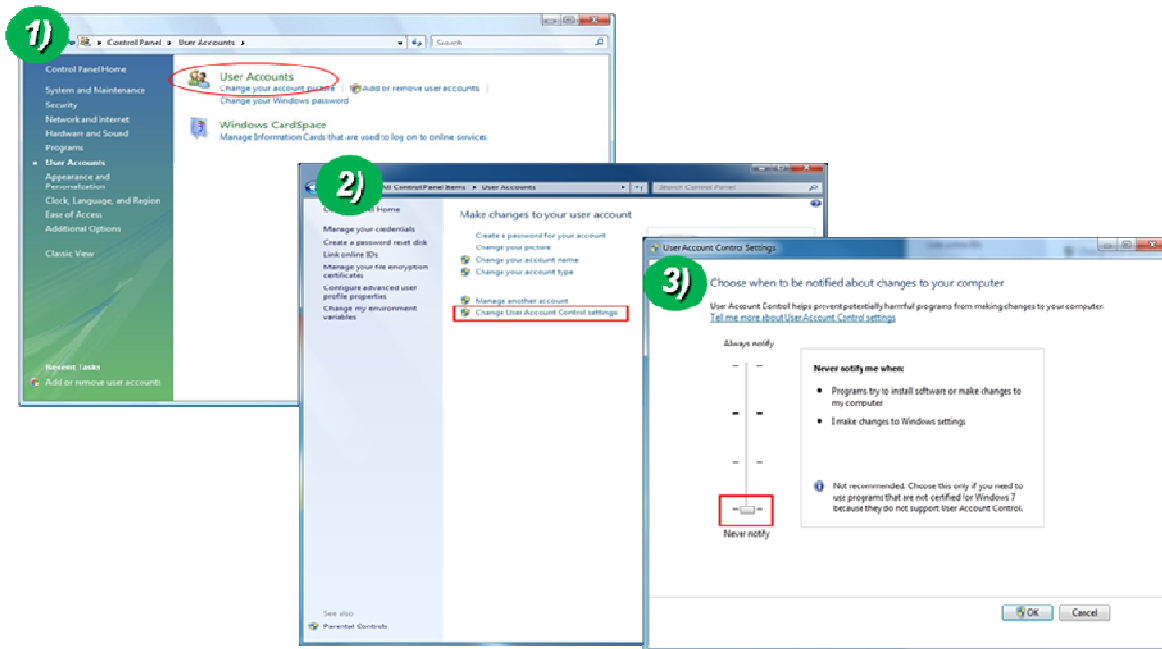
- 1) Select "NVR" icon on the desktop
- 2) Click right mouse button and select "Properties"
- 3) Check "Privilege Level" in "Compatibility" tab



<Windows 7>

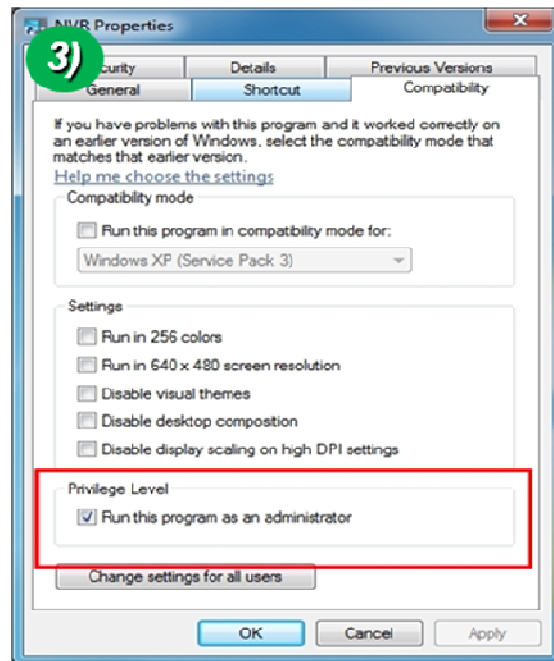
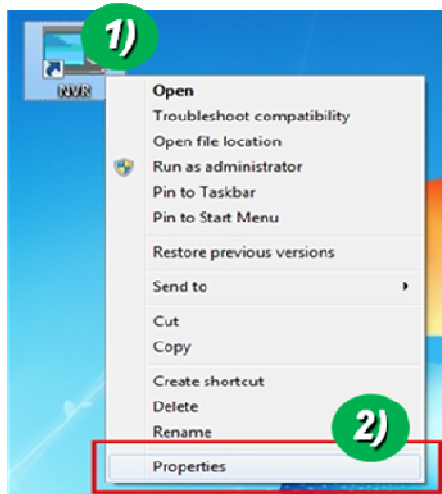
1. UAC (User Access Control) configuration

- 1) Double-click "User Accounts" in control panel
- 2) Double-click "Change User Account Control setting"
- 3) Set to "Never notify"



2. Privilege Level Control

- 1) Select "NVR" icon on the desktop
- 2) Click right mouse button and select "properties"
- 3) Check "Privilege Level" in "Compatibility" tab



4.4. Technical Assistance

If you need any technical assistance, please contact your dealer. For immediate service please provide the following information.



1. **Model name**
2. **MAC address and Registration number**
3. **Purchase date**
4. **Description of the problem**
5. **Error message**