NUUO®

The Intelligent Surveillance Solution

Hardware & Software NDVR

Installation Guide

Ver. 5.1

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6000S/7000S SERIES
Product Specification

Model	6016S	6008S	6004S
Display Rate	480fps(NTSC); 400fps (PAL)	240fps(NTSC); 200fps (PAL)	120fps(NTSC); 100fps (PAL)
Recording Rate (**CIF**)	480fps(NTSC); 400fps (PAL)	240fps(NTSC); 200fps (PAL)	120fps(NTSC); 100fps (PAL)
Maximum Card	4	4	4
Video Input	16	8	4
Audio Input	16	8	4
Video Resolution	NTSC: 176x120; 352x240; 704x480		
	PAL: 176x144; 352x288; 704x576		
Compression Format	Hardware Compression H.264		
	7016S	**7008S**	**7004S**
Display Rate	480fps(NTSC); 400fps (PAL)	240fps(NTSC); 200fps (PAL)	120fps(NTSC); 100fps (PAL)
Recording Rate (**D1**)	480fps(NTSC); 400fps (PAL)	240fps(NTSC); 200fps (PAL)	120fps(NTSC); 100fps (PAL)
Maximum Card	4	4	4
Video Input	16	8	4
Audio Input	16	8	4
Video Resolution	NTSC: 176x120; 352x240; 704x480		
	PAL: 176x144; 352x288; 704x576		
Compression Format	Hardware Compression H.264		

System Requirement

The system requirement depends on the number of camera connections and the total bit rate of the IP cameras. Please refer Appendix - Minimum Hardware Requirement or check NUUO Calculator on http://support.nuuo.com/calculator/

Hardware Installation

Caution

- The electronic components within the unit are sensitive to damage from Electro-Static Discharge (ESD). Please take precautions at all times when handling the unit or its sub-assemblies.
- Proper Surge solution is needed for outdoor application. It provides protection from damaging transient voltage surges and spikes.

Hardware Installation

Step1: Insert the card onto an empty PCI-e slot. Connect the **Audio/Video Cable** to the connector.
Note 1: The audio input connectors are with red wires and marked of "A" on them (such as "A1/9"); the video input connectors are with black wires and marked of "V" (such as "V8/16").
Note 2: You need to power down the PC before you insert the card.

Step 2: Connect the **Watchdog wire** to the **reset** connector on the main board.
Note: With the **Watchdog Wire** connected, the system will be restarted if any abnormal conditions.

Step 3: Turn on your PC and start Windows.

Step 3: Insert the included Software CD into CD-ROM.

Step 4: Refer the section Driver Installation on page 18 to install driver.

Step 5: After driver is installed, restart your PC.

Optional I/O Card: refer to the figures on the following pages.

Step 1: Fix the IO card onto your PC.

Step 2: Connect the Capture Card and the I/O Card with an included ribbon cable (**2.00mm** IDC cable).
Note 1: The default configuration of blue slide switch on I/O Card as below.
Note 2: If you only use one I/O card to connect with one of 6000S/7000S cards, please make sure the configuration of the black slide switch as below.
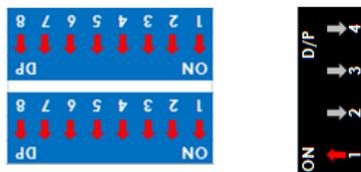
Maximum optional I/O Card support:
6000S/7000S can support maximum 4 I/O cards. Please refer to figures on the following pages.

6000S/7000S Series Capture Card

Mainboard

Reset

Watchdog wire

Audio/Video cable

Connect to IO board
(2.00mm IDC cable)

To PCI-e slot

I/O card

2.54mm IDC cable for
1000/3000/7100 series

RJ-11 to RS-232 for RS-485

ATX Power supply

TX-
RS-485
TX+
Ground
Alarm input 1-4

2.00mm IDC cable for
6000S/7000S/8004HD series

Relay output 1-4
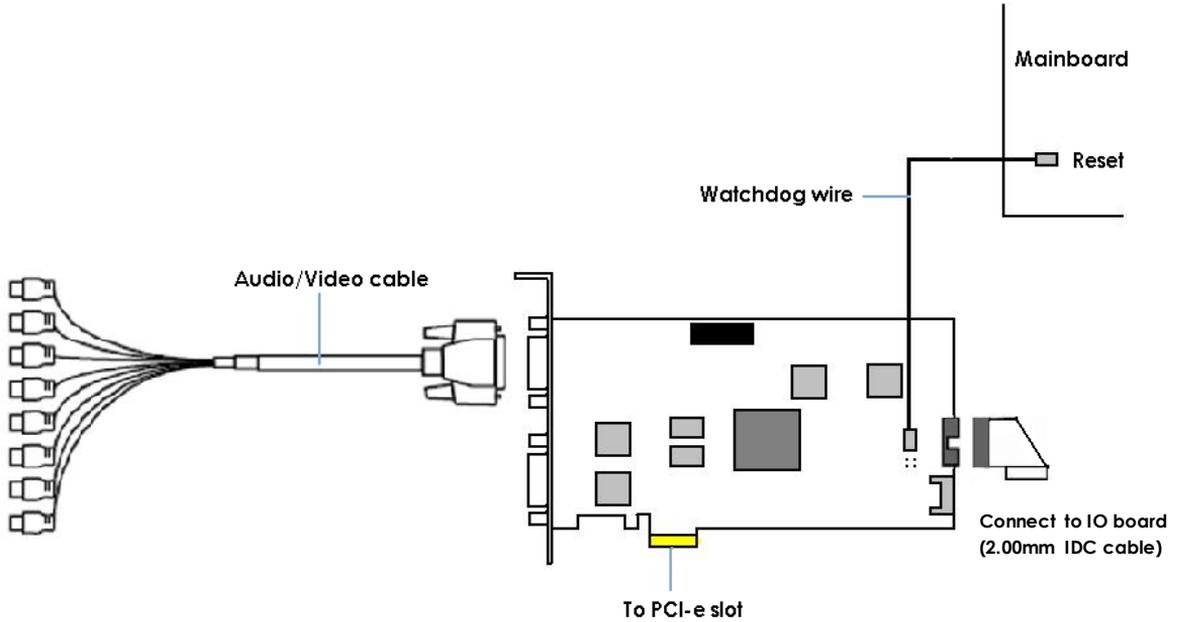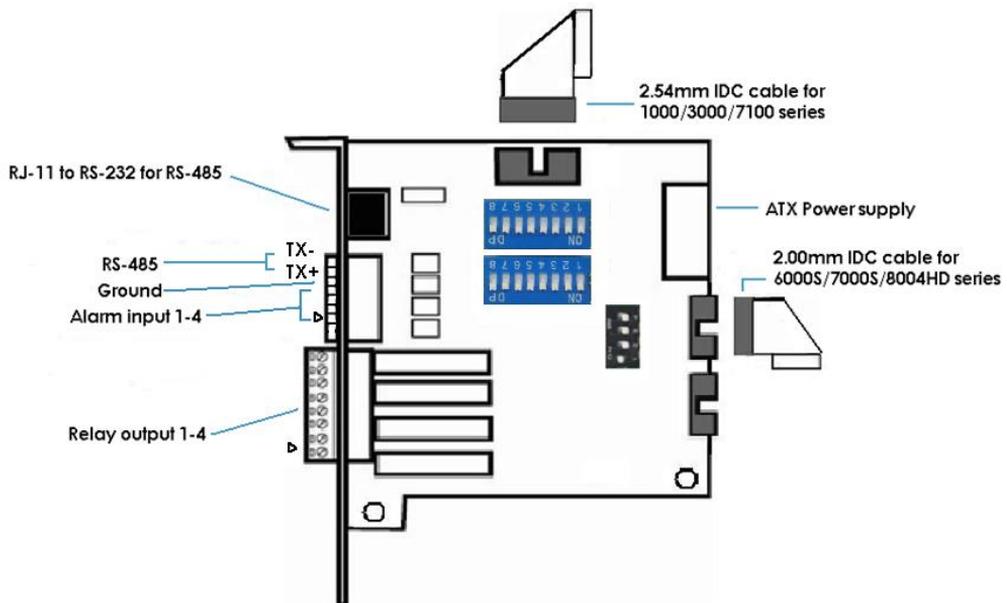
Note: Please do not connect 2 capture cards in one IO board at the same time.

Maximum I/O Cards support for 6000S/7000S
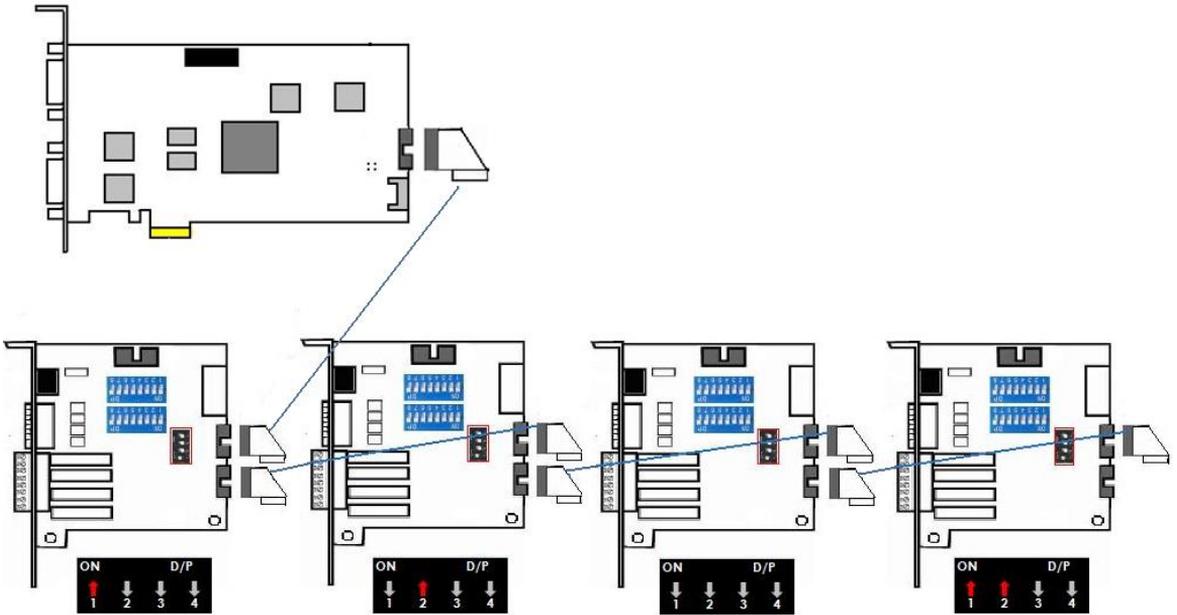
Note: If you use more than one IO card, please make sure the configuration of each black switch as above.

7100 SERIES
Product Specification

	7116	7108
Display Rate	480fps(NTSC); 400fps (PAL)	240fps(NTSC); 200fps (PAL)
Recording Rate (**D1**)	480fps(NTSC); 400fps (PAL)	240fps(NTSC); 200fps (PAL)
Maximum Card	1	1
Video Input	16	8
Audio Input	16	8
Video Resolution	NTSC: 176x120; 352x240; 704x480	
	PAL: 176x144; 352x288; 704x576	
TV Output Rate	w/ HDMI: RCA & HDMI: 10fps w/o HDMI: RCA: 25fps Only HDMI: HDMI: 14fps	
Compression Format	Hardware Compression H.264	

System Requirement

The system requirement is depend on the number of camera connections and the total bit rate of the IP cameras. Please refer Appendix - Minimum Hardware Requirement or check NUUO Calculator on
http://support.nuuo.com/calculator/

Caution

- The electronic components within the unit are sensitive to damage from Electro-Static Discharge (ESD). Please take precautions at all times when handling the unit or its sub-assemblies.
- Proper Surge solution is needed for outdoor application. It provides protection from damaging transient voltage surges and spikes.

Hardware Installation

Step1: Insert the card onto an empty PCI-e slot. Connect the **Audio/Video Cable** to the connector.
Note 1: The audio input connectors are with red wires and marked of "A" on them (such as "A1/9"); the video input connectors are with black wires and marked of "V" (such as "V8/16").
Note 2: You need to power down the PC before you insert the card.

Step 2: Connect the **Watchdog wire** to the **reset** connector on the main board.
Note: With the **Watchdog Wire** connected, the system will be restarted if any abnormal conditions.

Step 3: Turn on your PC and start Windows.

Step 3: Insert the included Software CD into CD-ROM.

Step 4: Refer the section Driver Installation on page 18 to install driver.

Step 5: After driver is installed, restart your PC.

Optional I/O Card: refer to the figures on the following pages.

Step 1: Fix the IO card onto your PC.

Step 2: Connect the Capture Card and the I/O Card with an included ribbon cable (**2.54mm** IDC cable).
Note 1: The default configuration of blue slide switch on I/O Card as below.
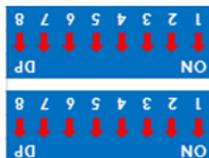
Note 2: Before install SCB-7100 Series cards, please connect HDMI cable first then it would be easier to fix the card onto the PCI-e slot.

Note 3: Some chassis may not be suitable for installing SCB-7100 series due to the original design, please check the dimension of the chassis before installing.

7100 Series Capture Card
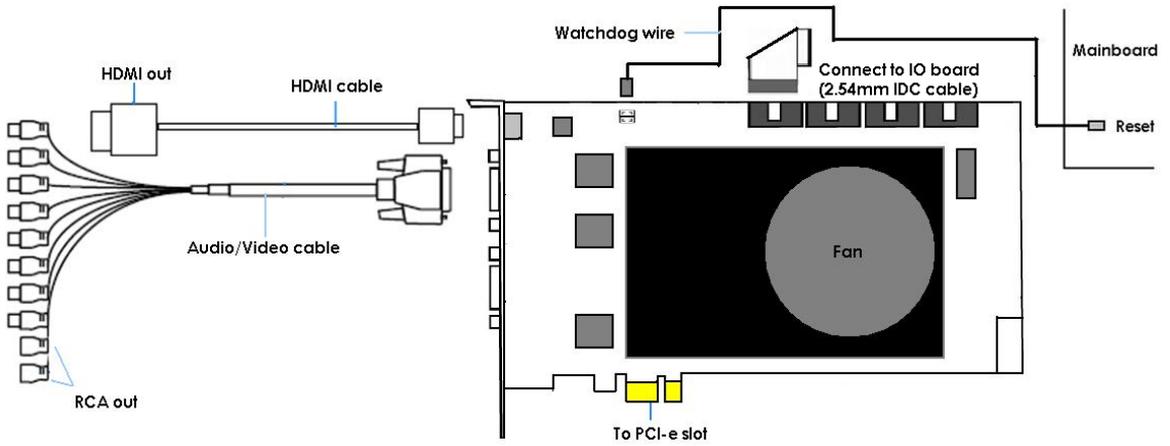
I/O card
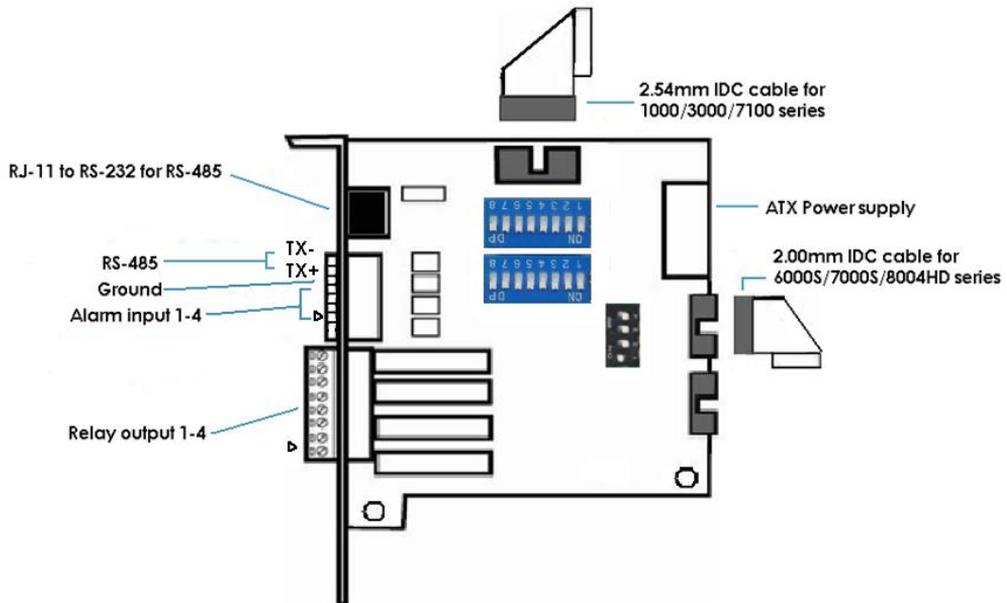
Maximum I/O Cards support for 7116

Please refer to page 5 Maximum I/O Cards support for G3-3016

8000HD SERIES
Product Specification

	8004HD
Display Rate	120fps(NTSC); 100fps(PAL)
Recording Rate	1080P@120(NTSC) 1080P@100(PAL)
Maximum Card	4
Video Input	4
Audio Input	0
Video Resolution	1080P30/25 720P60/50/30/25
Compression Format	Hardware Compression H.264

System Requirement

The system requirement is depend on the number of camera connections and the total bit rate of the IP cameras. Please refer Appendix - Minimum Hardware Requirement or check NUUO Calculator on http://support.nuuo.com/calculator/

Caution

- The electronic components within the unit are sensitive to damage from Electro-Static Discharge (ESD). Please take precautions at all times when handling the unit or its sub-assemblies.
- Proper Surge solution is needed for outdoor application. It provides protection from damaging transient voltage surges and spikes.

Hardware Installation

Step1: Insert the card onto an empty PCI-e slot. Connect the **BNC Cable** (not in product content) to the connector.
Note: You need to power down the PC before you insert the card.

Step 2: Connect the **Watchdog wire** to the **reset** connector on the main board.
Note: With the **Watchdog Wire** connected, the system will be restarted if any abnormal conditions.

Step 3: Turn on your PC and start Windows.

Step 3: Insert the included Software CD into CD-ROM.

Step 4: Refer the section Driver Installation on page 18 to install driver.

Step 5: After driver is installed, restart your PC.

Optional I/O Card: refer to the figures on the following pages.

Step 1: Fix the IO card onto your PC.

Step 2: Connect the Capture Card and the I/O Card with an included ribbon cable (**2.00mm** IDC cable).
Note 1: The default configuration of blue slide switch on I/O Card as below.
Note 2: If you only use one I/O card to connect with an 8004HD card, please make sure the configuration of the black slide switch as below.
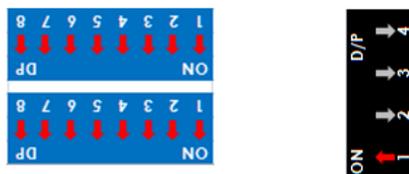
Maximum optional I/O Card support:

Please refer to page 11 <u>Maximum I/O Cards support for 6000S/7000S</u>

8004HD Card
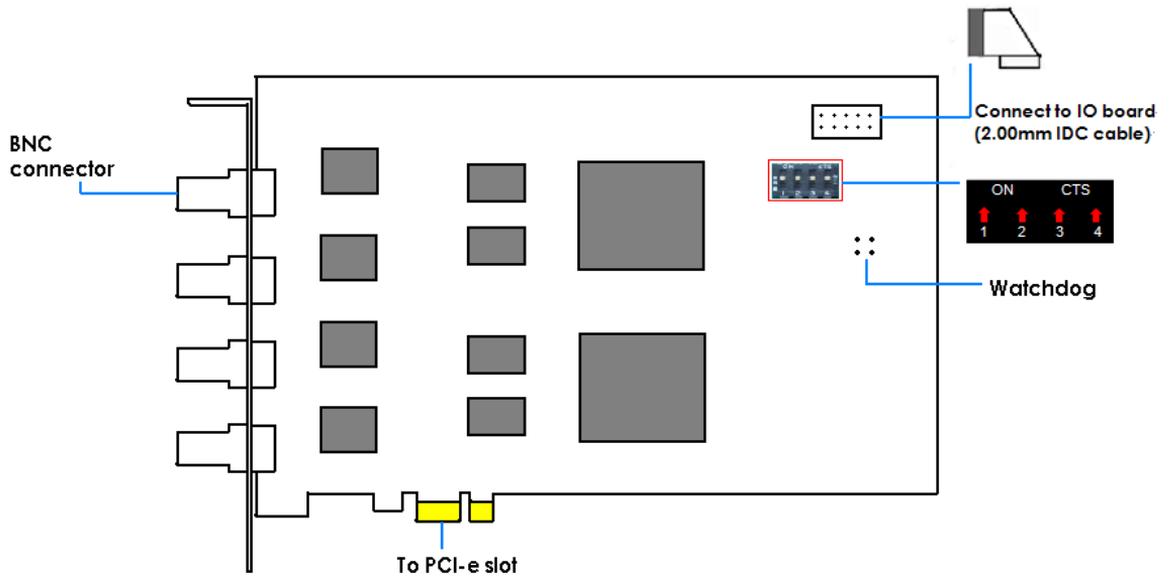
Note: The default configuration of the black switch on 8004HD card is as above. Do not adjust it.

I/O card
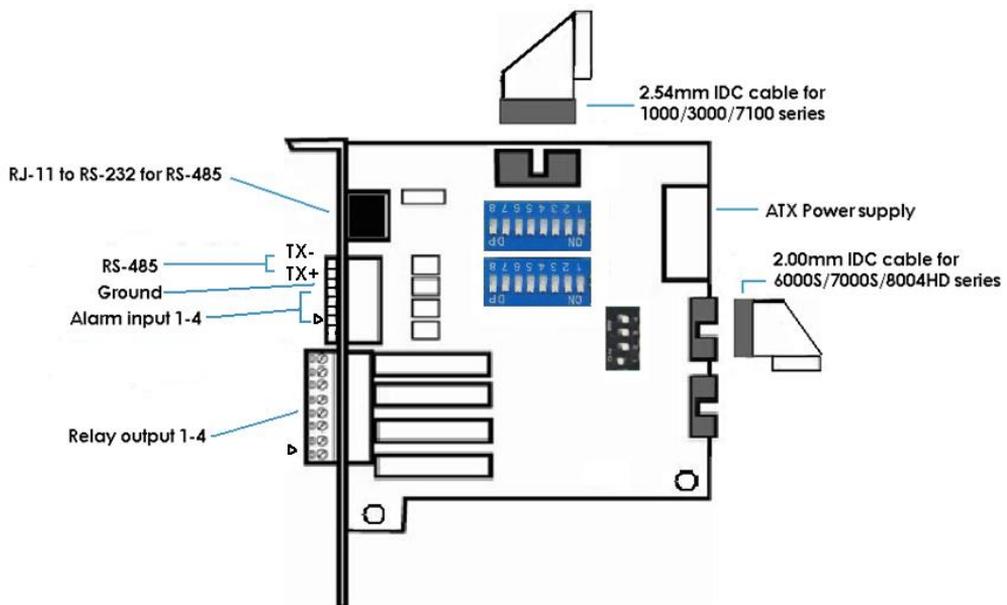
DRIVER INSTALLATION

Step 1: Insert the Installation CD. Run autostartup.exe from the CD-ROM directly to start the installation.
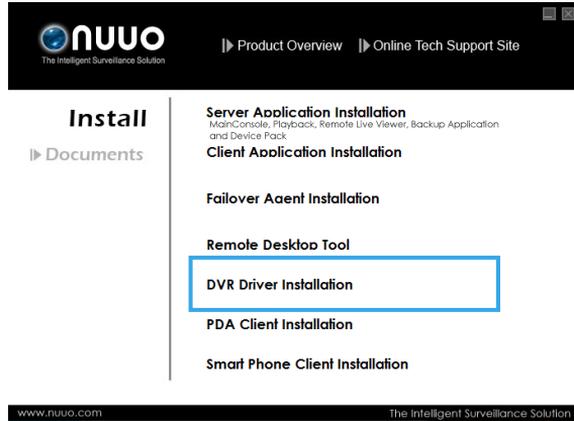
Step 2: Select "DVR Driver Installation" then click on it.

Step 3: In the NUUODriver Setup Wizard dialog box, click Next to continuous.

Step 4: Check the "License agreement". Click "I Agree" to continuous.
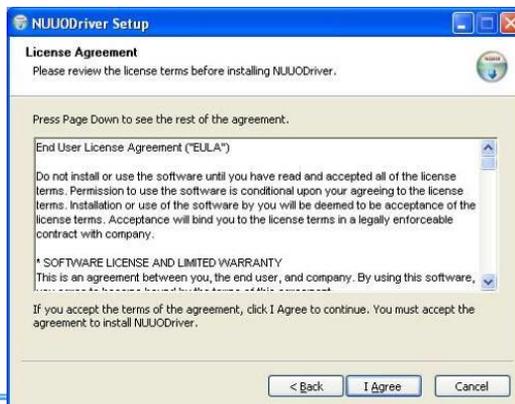
Step 5: Installing NUUODriver.
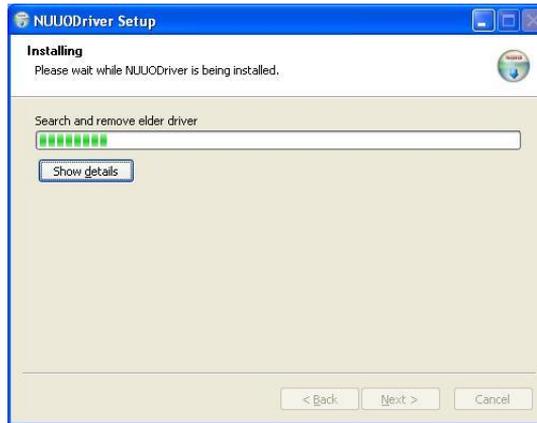
Step 6: Click "**Finish**" after installing the system completely, and then choose to reboot now or later.

SOFTWARE INSTALLATION

Step 1: Insert the Installation CD. Run Autorun Tool from the CD-ROM directly to start the installation.
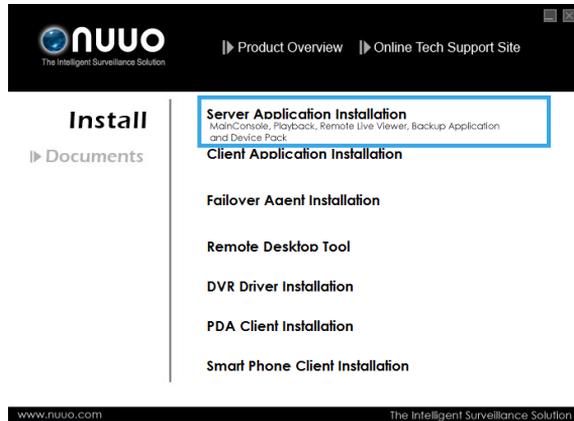
Step 2: Select "Server Application Installation" then click on it.

Step 3: In the InstallShield Wizard dialog box, select language and click **Next** to continuous.

Step 4: There are 2 Installation Mode of options in "Initiation Mode" window, select one and click Next to start the installshield of Server package.

Step 3: There are 4 system types of options in "System Setup Tool" window, select one and click Next to start the installshield of Server package.
- NUUO IP Surveillance System/Trial System
- NUUO MPEG-4 Hybrid System
- NUUO Full HD/D1 H.264 Hybrid System

Note: The Setup Tool will detect the type of capture cards installs on PC and enable the options of system types automatically.
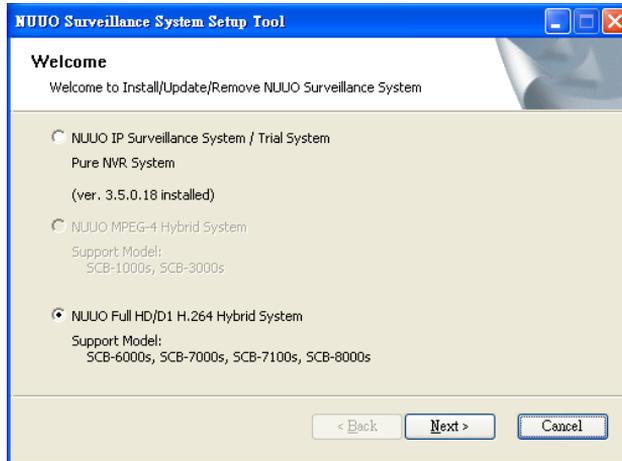
Step 4: In the InstallShield Wizard dialog box, click **Next** to continuous.
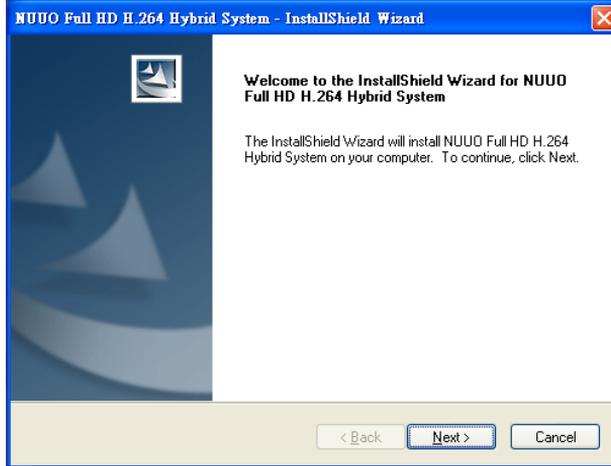
Step 5: Check the option "I accept the terms of the license agreement". Click **Next** to continuous.
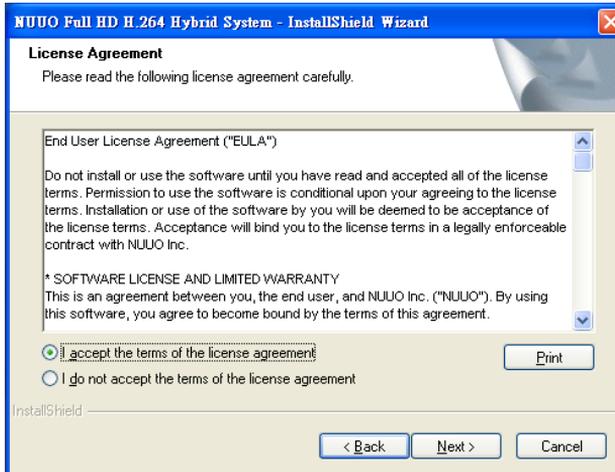
Step 6: Please enter your name and the company name for which you work. Click **Next** to continuous.
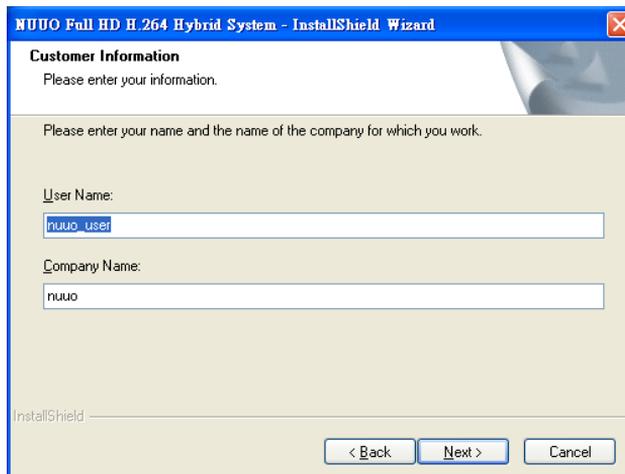
Step 7: Select "Complete Setup Type" or "Custom Setup Type" to install the System.
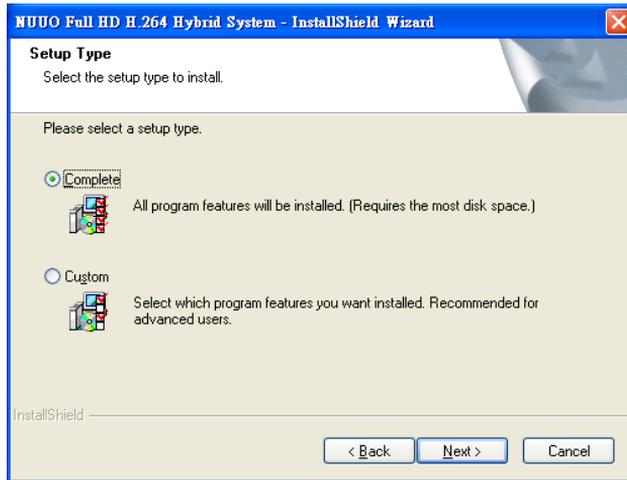
COMPLETE SETUP TYPE
Install all program features into the default directory.
- Check the option "**Complete**", and then click "**Next**". All program features will be installed. [Require the most disk space.]

CUSTOM SETUP TYPE
Install the system to a preferred directory. Or select whichever program feature(s) to install. This is recommended for advanced users.
- Check the option "**Custom**", and then click "**Next**".
- Select appointed folder where setup will install files to. Click "**Change**" to modify the installation directory.

- Select the features setup will install. There are 4 features to choose in the server setup process: MainConsole, Playback, LiveView, Backup, and Verification tool. Click "**Next**" after confirmation.
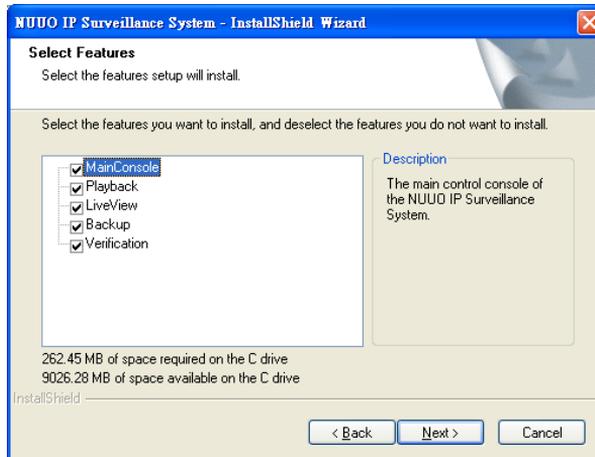
Step 8: Click install to start the installation.
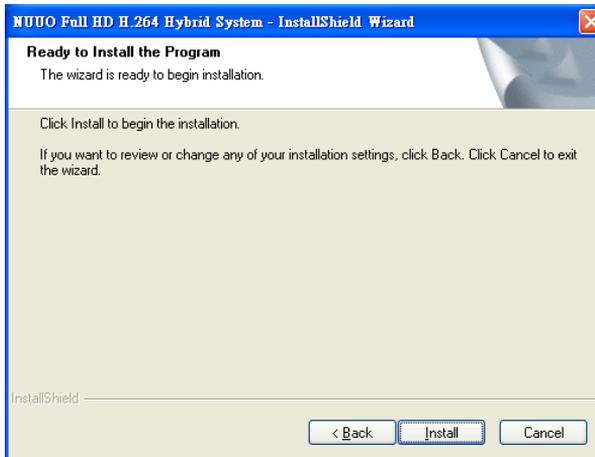
Step 9: Click Finish after installing the system completely.
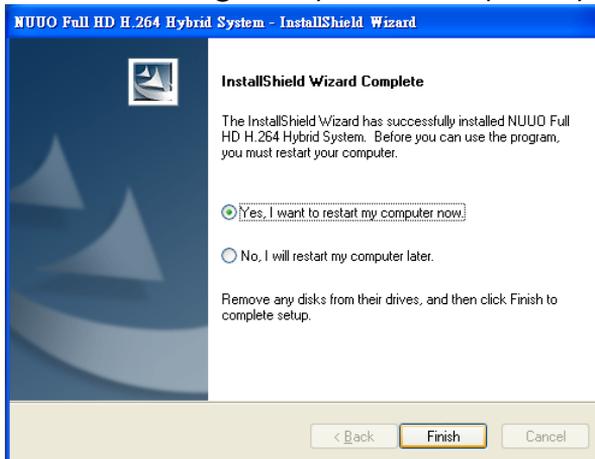
Step 10: Execute the Main Console
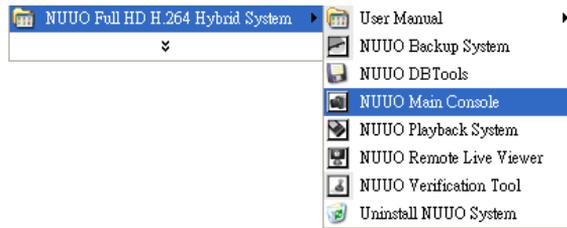
Step 11: Enter the password you like into the edit box and enter again at the edit of Password Confirm. And then press "OK". Now enjoy our Intelligent Surveillance Solution.
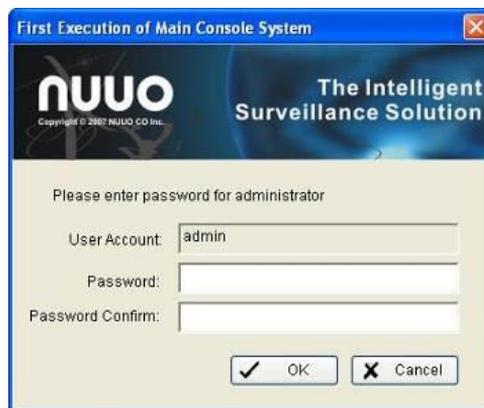
SOFTWARE INSTALLATION – EXPRESS MODE

Step 1: Insert the Installation CD. Run Autorun Tool from the CD-ROM directly to start the installation.
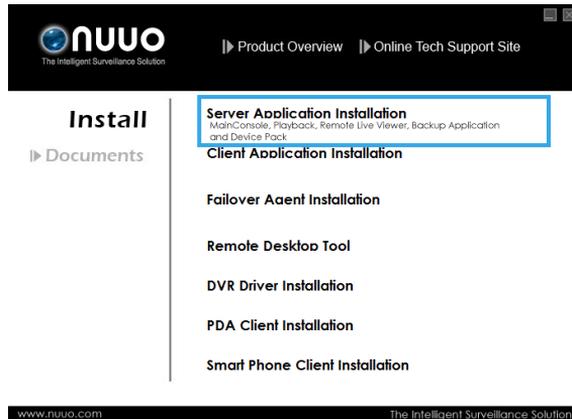
Step 2: Select "Server Application Installation" then click on it.

Step 3: There are 4 system types of options in "System Setup Tool" window, select one and click Next to start the installshield of Server package.
- NUUO IP Surveillance System/Trial System
- NUUO MPEG-4 Hybrid System
- NUUO Full HD/D1 H.264 Hybrid System

Note: The Setup Tool will detect the type of capture cards installs on PC and enable the options of system types automatically.
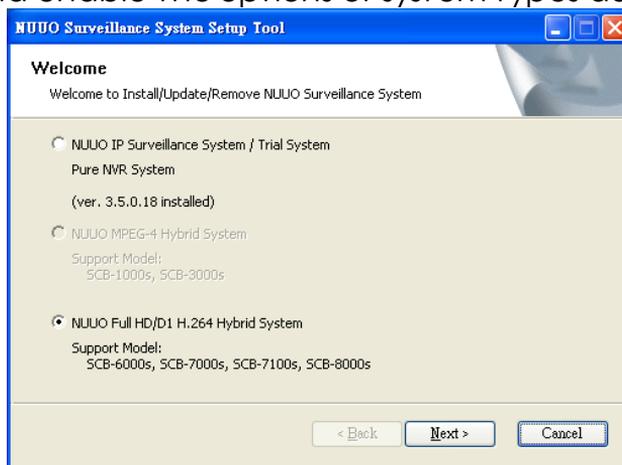
Step 4: In the InstallShield Wizard dialog box, select language and click **Next** to continuous.

Step 5: There are 2 Installation Mode of options in "Initiation Mode" window, select one and click Next to start the installshield of Server package.
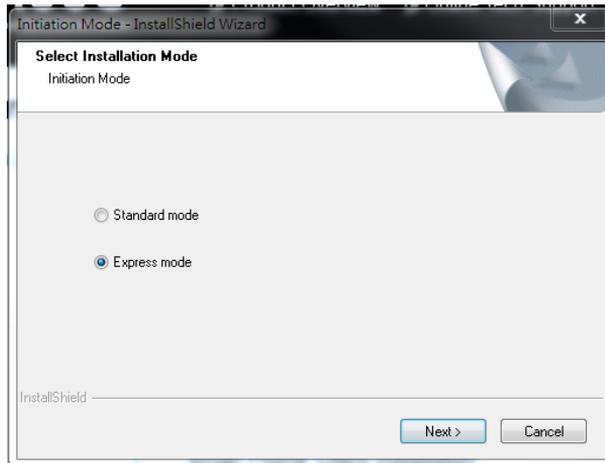
Step 6: Click install to start the installation.
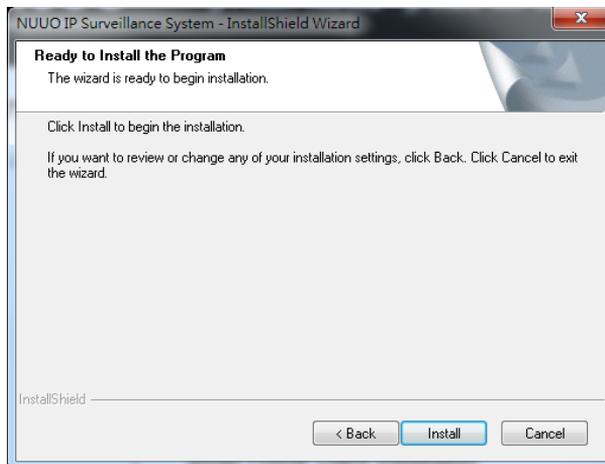
Step 7: Click Finish after installing the system completely.
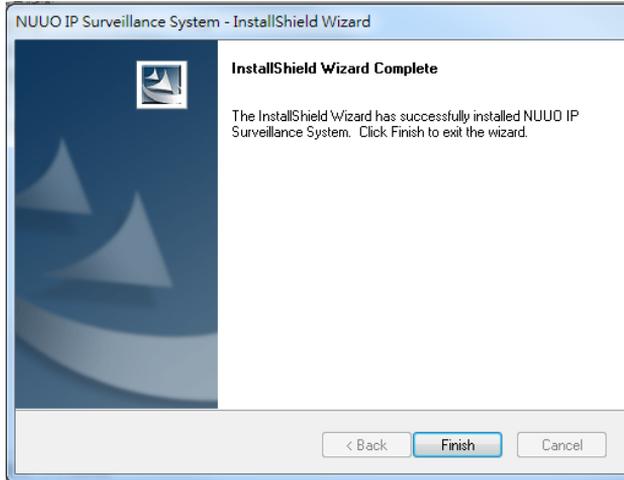
Step 8: Execute the Main Console
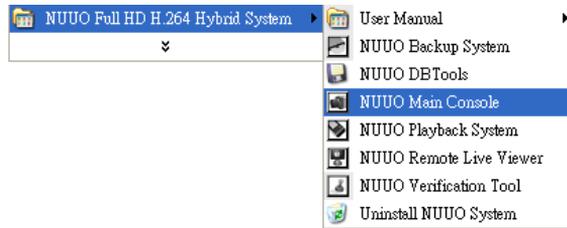
Step 9: Enter the password you like into the edit box and enter again at the edit of Password Confirm. And then press "OK". Now enjoy our Intelligent Surveillance Solution.
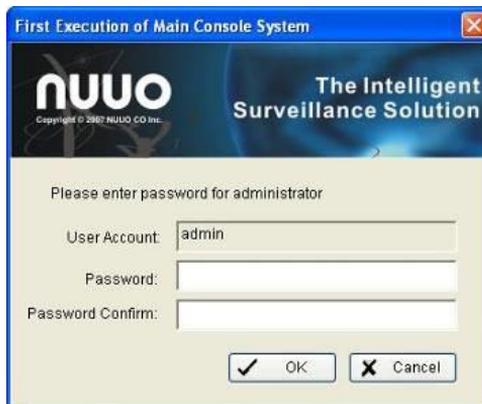
SOFTWARE INSTALLATION – FAILOVER AGENT (STANDARD MODE)

Step 1: Insert the Installation CD. Run Autorun Tool from the CD-ROM directly to start the installation.
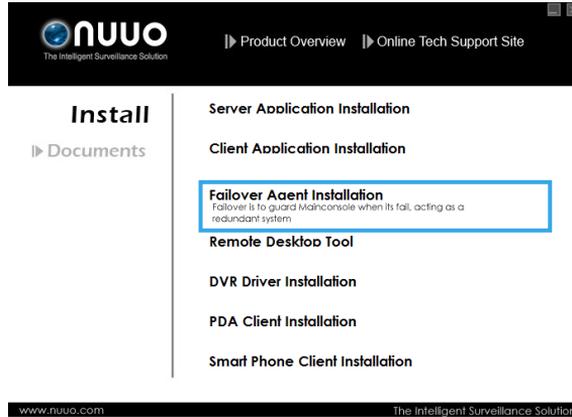
Step 2: Select "Failover Agent Installation" then click on it.

Step 3: In the InstallShield Wizard dialog box, select language and click **Next** to continuous.

Step 4: There are 2 Installation Mode of options in "Initiation Mode" window, select one and click Next to start the installshield of Server package.
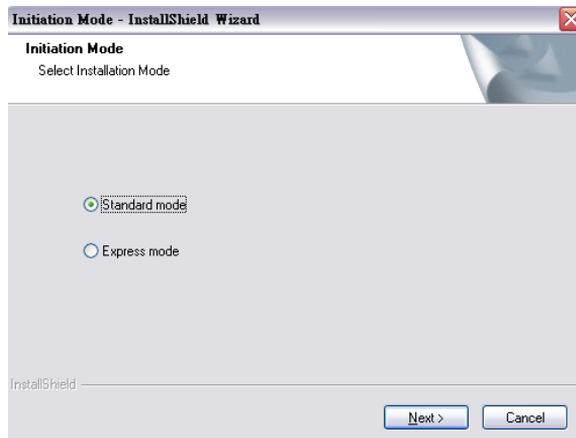
Step 5: In the InstallShield Wizard dialog box, click **Next** to continuous.
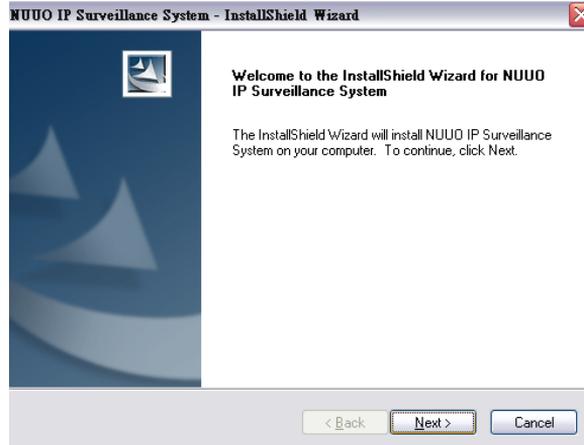
Step 6: Check the option "I accept the terms of the license agreement". Click **Next** to continuous.
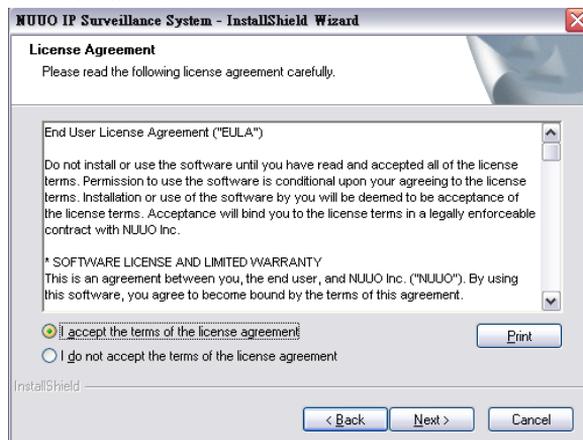
Step 7: Please enter your name and the company name for which you work. Click **Next** to continuous.

Step 8: Select "Complete Setup Type" or "Custom Setup Type" to install the System.
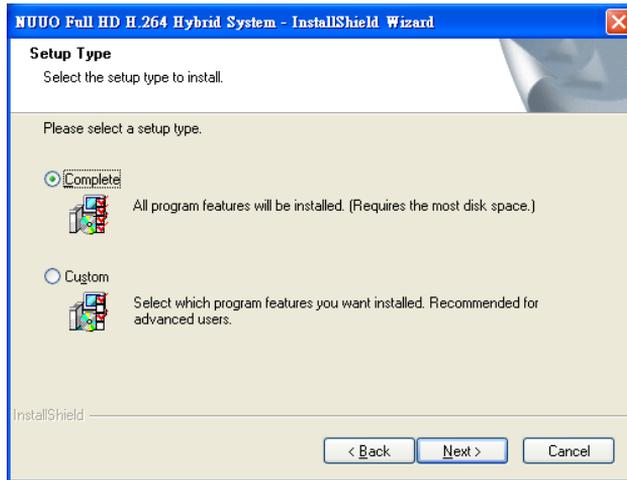
COMPLETE SETUP TYPE

Install all program features into the default directory.

- Check the option "**Complete**", and then click "**Next**". All program features will be installed. [Require the most disk space.]

CUSTOM SETUP TYPE

Install the system to a preferred directory. Or select whichever program feature(s) to install. This is recommended for advanced users.

- Check the option "**Custom**", and then click "**Next**".
- Select appointed folder where setup will install files to. Click "**Change**" to modify the installation directory.
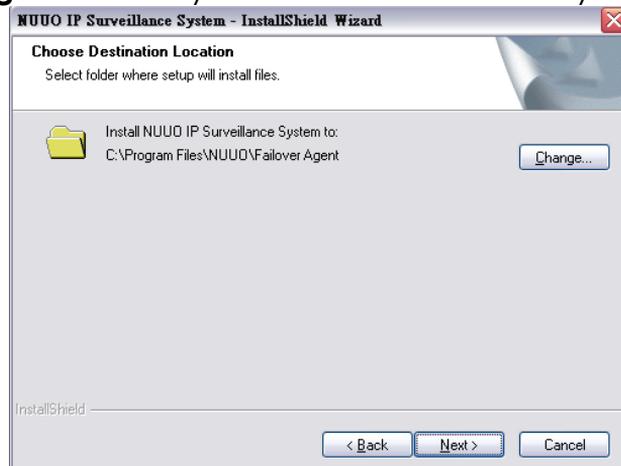
- Select the features setup will install. Click "**Next**" after confirmation.
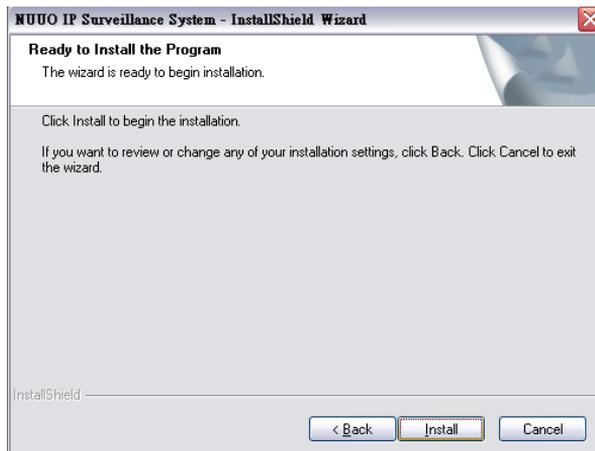
Step 8: Click install to start the installation.

Step 9: Click Finish after installing the system completely.

Step 10: Execute the Failover Agent

NUUO Failover Agent	▶	NUUO Failover Agent
		Uninstall NUUO System

Step 9: Enter the password you like into the edit box and enter again at the edit of Password Confirm. And then press "OK". Now enjoy our Failover Agent service.

Password Setting ✕

Please enter password for administrator

Password: [   ]

Password Confirm: [   ]

✓ OK   ✕ Cancel
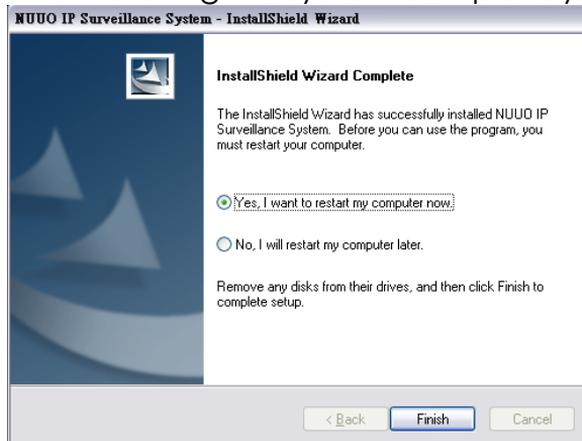
SOFTWARE INSTALLATION – FAILOVER AGENT (EXPRESS MODE)

Step 1: Insert the Installation CD. Run Autorun Tool from the CD-ROM directly to start the installation.

Step 2: Select "Failover Agent Installation" then click on it.

Step 3: In the InstallShield Wizard dialog box, select language and click **Next** to continuous.

Step 4: There are 2 Installation Mode of options in "Initiation Mode" window, select one and click Next to start the installshield of Server package.
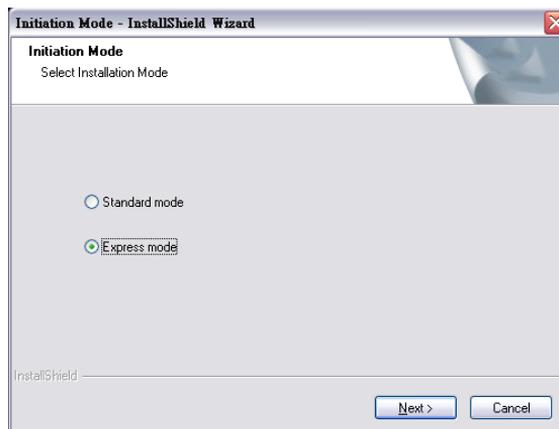
Step 5: Click install to start the installation.
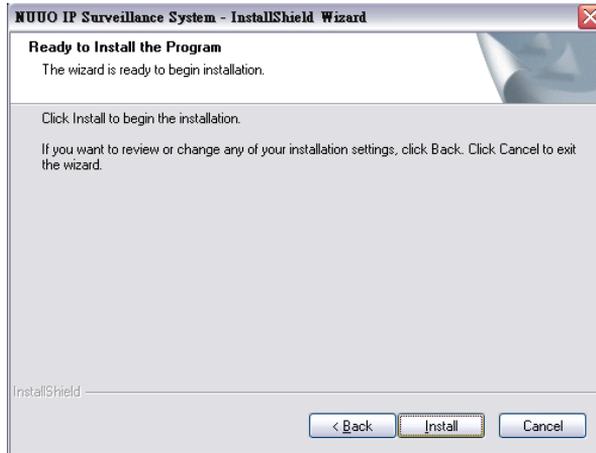
Step 6: Click Finish after installing the system completely.
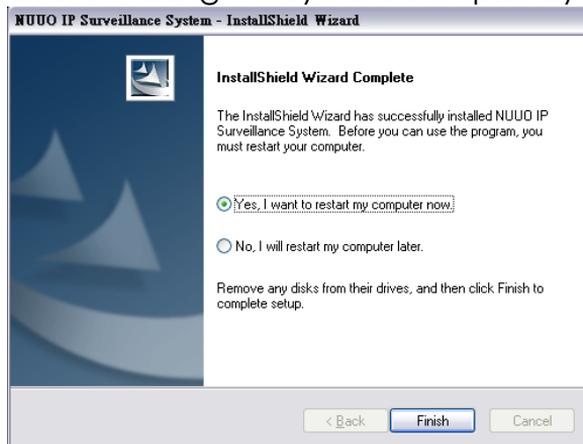
Step 7: Execute the Failover Agent

Step 8: Enter the password you like into the edit box and enter again at the edit of Password Confirm. And then press "OK". Now enjoy our Failover Agent service.

Note: When use Windows 8, please disable Metro function first before start Mainconsole. For further steps, please refer to:
http://www.youtube.com/watch?v=xERxpbwBt0U

Note: When use Windows Server 2012, please enable desktop experience first before start Mainconsole. For further steps, please refer to:
http://social.technet.microsoft.com/wiki/contents/articles/10531.windows-server-8-beta-how-to-enable-desktop-experience-feature-en-us.aspx

the Desktop Experience feature in Windows Server 8 Beta belongs to **User Interfaces and Infrastructure** feature. In order to install Desktop Experience feature, do the following steps:

Open **Server Manager** > **Manage** > **Add Roles and Features**.
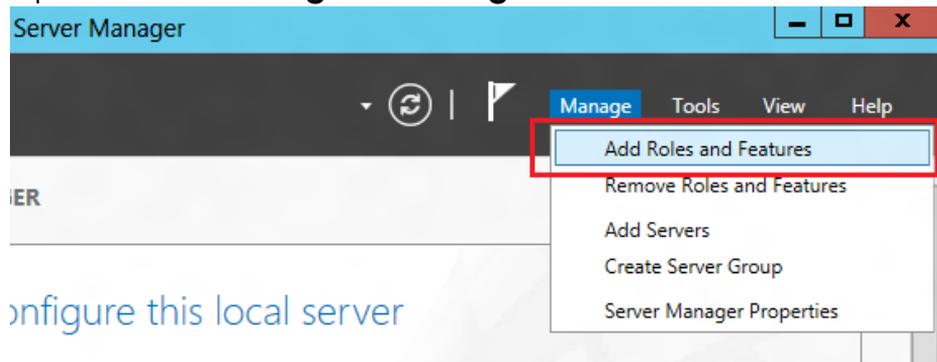
Before you begin to install a feature, you can read information in the **Before you begin** page. This page is very useful for anyone who has started learning Windows Server 8. Select **Skip this page by default** in order to remove this page for the next times you add roles or features.

In the **Select installation type** page, you have two options:

1. Role-based or feature-based installation: this option that similar to the one available in the Windows Server 2008 is used when you want to add roles, features in single server.
2. Remote Desktop Services scenario-based installation this option allows you to install, configure and manage RS session Host servers from a central location.

In the **Select destination server** page, select the server pool under **SERVER POOL**. With flexible server platform, now you can select a virtual hard disk

as a destination server when deployed roles or features.

Skip the **Select server roles** page. In the **Select features** page, you can select User Interfaces and infrastructure feature. You will be prompted to install the required components or services **"Ink and Handwriting Services"** and "**Media Foundation**". Click **Add Features**.
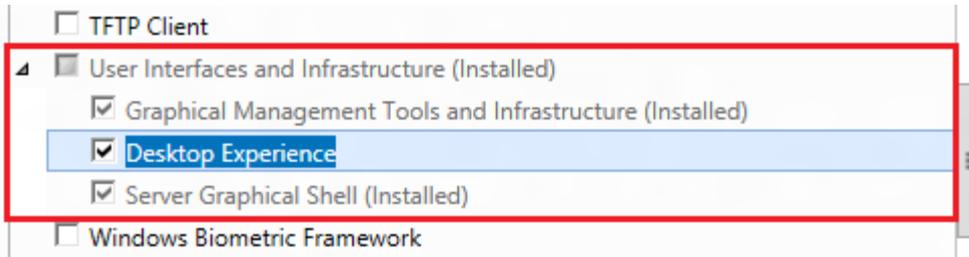
In the **Confirm installation selections** page, select **Restart the destination server automatically if required**. You must restart computer after installing completely.

You have another way to add feature by using Powershell:
Add-WindowsFeature Desktop-Experience.

APPENDIX - MINIMUM HARDWARE REQUIREMENT

Please refer NUUO online Design Tool for sever spec evaluation:
http://www.nuuo.com/calculator/