

The Intelligent Surveillance Solution

Hardware & Software Installation user's manual

Ver. 99.334.A630.002

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System Requirement

1000 SERIES; **3000 SERIES**

Product Specification

G3 Card

	3000 Series	1000 Series		
Display Rate	120fps(NTSC); 100fps (PAL)	30fps(NTSC); 25fps (PAL)		
Recording Rate	120fps(NTSC); 100fps (PAL)	30fps(NTSC); 25fps (PAL)		
Maximum Card	2	4		
Video Input	4; 8; 16	4; 8		
Audio Input	4	1		
Video Resolution —	NTSC: 704x480; 640 x 480; 352x240			
video kesolution	PAL: 704x576 ; 640 x 576 ;352x288			
Compression Format	Software Compression MPEG 4			

System Requirement

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

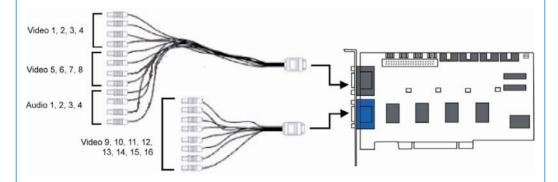
Hardware Installation

For G3-card and R-card, the hardware installation steps are all the same except the connection of Audio/Video Cable. The following figure shows the detail

- Step1: Insert the card onto an empty PCI slot. Connect the Audio/Video Cable to the connector in the same color.
- Step 2: 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 being installed, restart your PC.

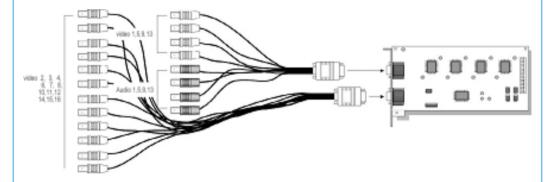
Connect the Audio/Video Cable

1. G3-card



Note: for G3-3000 series, audio channels are located at 1, 2, 3, 4.

2. R-card

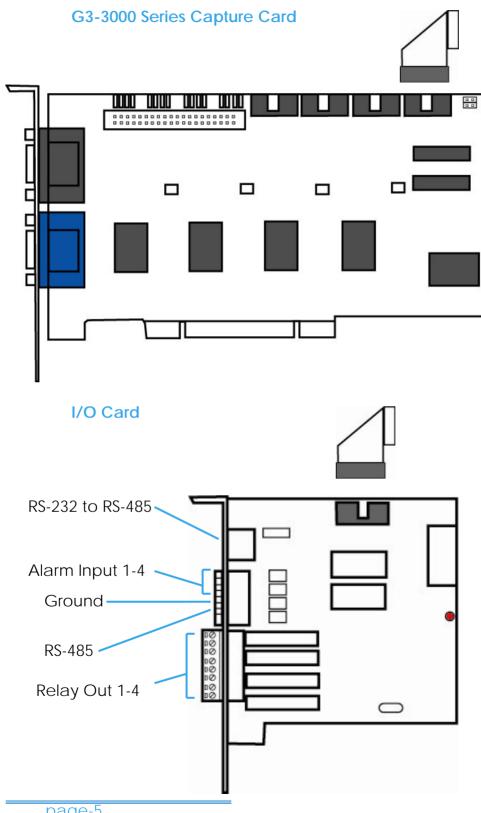


Note: for R-3000 series, audio channels are located at 1,5,9,13.

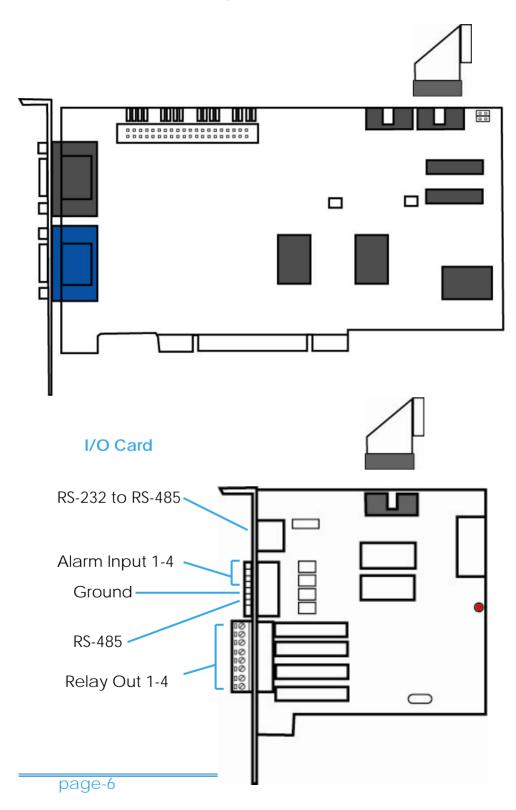
Optional I/O Card referring to the figures on the following pages.

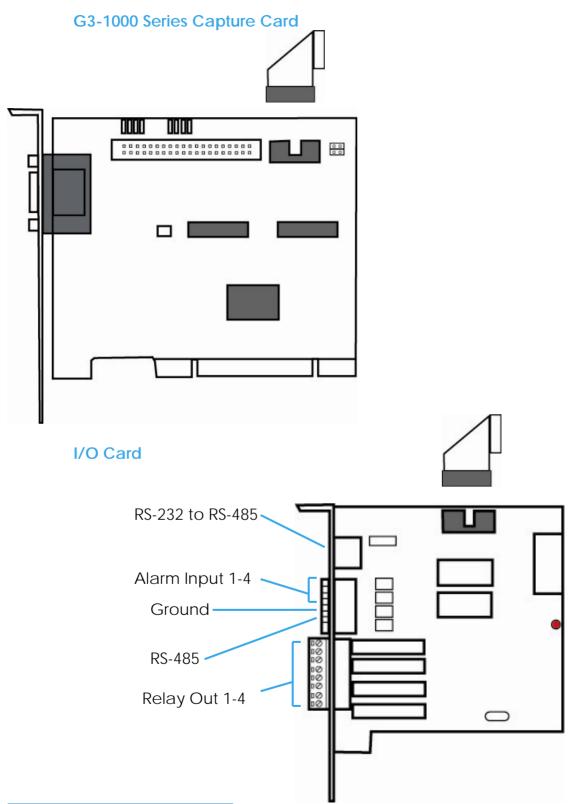
Insert the card onto your PC.

Connect the Capture Card and the I/O Card with an included ribbon cable. You may connect the ribbon cable to one of the I/O ports on the Capture Card.

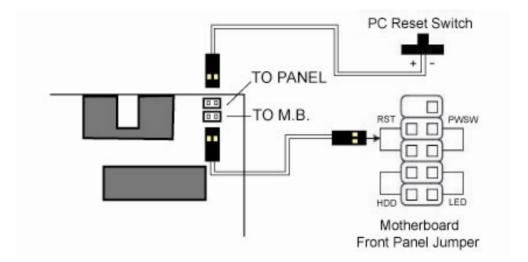


G3-2000 Series Capture Card





G3-card Watchdog Installation



Product Specification

5000 SERIES

Product Specification

	5016	5008	5004		
Display Rate	480fps(NTSC); 400fps (PAL)	240fps(NTSC); 200fps (PAL)	120fps(NTSC); 100fps (PAL)		
Recording Rate	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; 528x320; 704x480				
PAL: 176x144; 352x240; 528x320; 704x480					
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 <u>Appendix - Minimum Hardware Requirement</u> or check NUUO Calculator on http://support.nuuo.com/calculator/

Hardware Installation

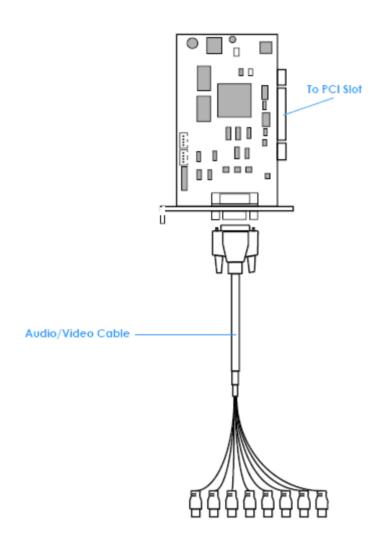
Connecting the Audio/Video Cable - referring to the figure on next page.

The audio input connectors are with white wires and marks of "AID" on them; the video input connectors are with red wires and the marks of "VID".

Note: It is known that NUUO 5004 card has compatibility problem with PPCI slot. NUUO 5004 cards can only be installed in SPCI slots. Normally, those 3 PCI slots nearest to CPU are PPCI slots. Avoid install 5004 card in these 3 slots. If driver was installed okay but one still encountered a problem shown below, try to install this 5004 card in another PCI slot.

I

5000 Series Capture Card



Product Specification

6000 SERIES

Product Specification

	6016	6008	6004	
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	2	4	4	
Video Input	16	8	4	
Audio Input	16	8	4	
Video Resolution -	NTSC: 176x120; 352x240; 704x480			
video kesolution	PAL: 176x144; 352x288; 704x576			
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 <u>Appendix - Minimum Hardware Requirement</u> or check NUUO Calculator on http://support.nuuo.com/calculator/

Hardware Installation

Connecting the Audio/Video Cable - referring to the figure on next page.

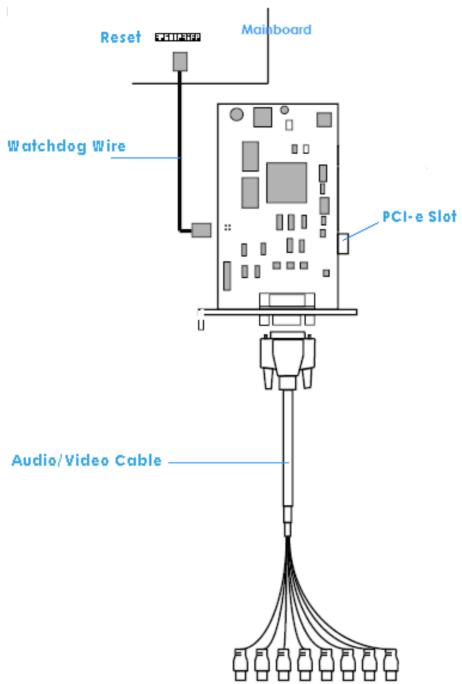
The audio input connectors are with yellow wires and marks of "A" on them (such as "A1/9"); the video input connectors are with black wires and the marks of "V" (such as "V8/16").

Connecting the Watchdog Wire - referring to the figure on next page.

Plug the Watchdog Wire to the Reset connector of the Hardware Compression Card and then connect it to the Reset connector on the main board.

With the Watchdog Wire connected, the system will be restarted if any abnormal conditions.

6000 Series Capture Card



Product Specification

7000 SERIES

Product Specification

	7016	7008	7004		
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	2	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 is depend on the number of camera connections and the total bit rate of the IP cameras. Please refer <u>Appendix - Minimum Hardware Requirement</u> or check NUUO Calculator on http://support.nuuo.com/calculator/

Hardware Installation

Connecting the Audio/Video Cable - referring to the figure on next page.

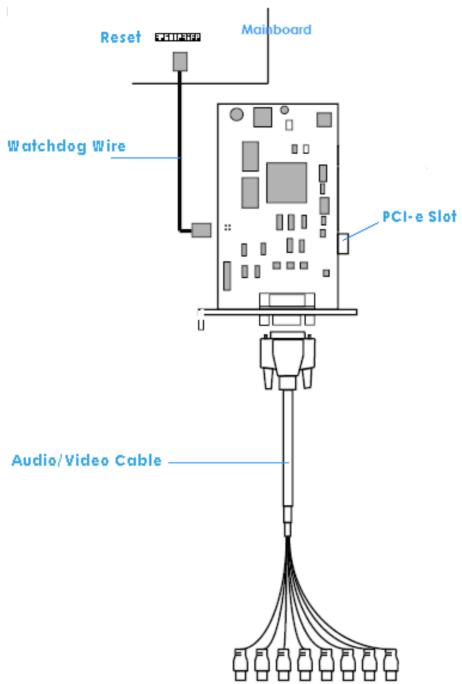
The audio input connectors are with yellow wires and marks of "A" on them (such as "A1/9"); the video input connectors are with black wires and the marks of "V" (such as "V8/16").

Connecting the Watchdog Wire - referring to the figure on next page.

Plug the Watchdog Wire to the Reset connector of the Hardware Compression Card and then connect it to the Reset connector on the main board.

With the Watchdog Wire connected, the system will be restarted if any abnormal conditions.

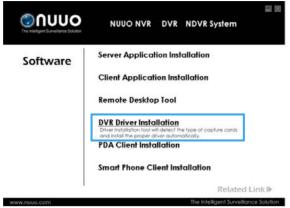
7000 Series Capture Card



Driver Installation

DRIVER INSTALLATION

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

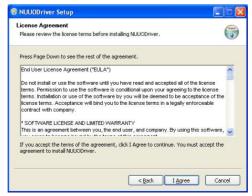


Step 2: Select "DVR Driver Installation" then click on it.

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



Step 4: Check the "License agreement". Click "I Agree" to continuous.

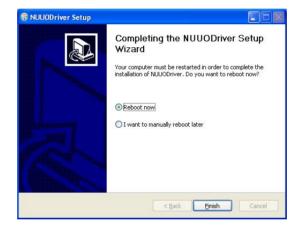


Driver Installation

Step 5: Installing NUUODriver.

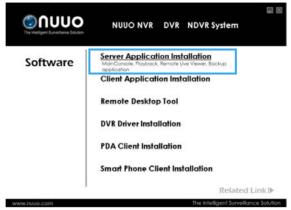


Step 6: Click "Finish" after installing the system completely, and then choose to reboot now or later.



SOFTWARE INSTALLATION

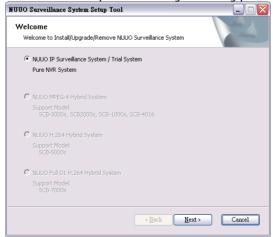
Step 1: Insert the Installation CD. Run Autorun Tool from the CD-ROM directly to start the installation.



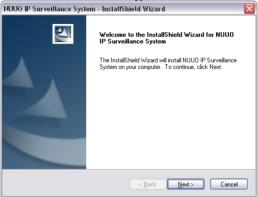
Step 2: Select "Server Application Installation" then click on it.

- Step 3: 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 H.264 Hybrid System
 - NUUO Full D1H.264 Hybrid System

Note: The SetupTool 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

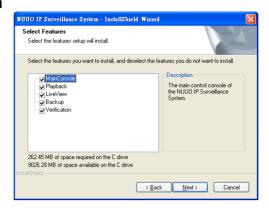
Install the system to a preferred directory. Or select whichever program feature(s) to install. This is recommended for advanced users.

- Check the option "Custom", and then click "Next".

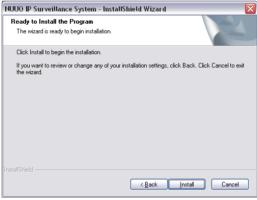
Select appointed folder where setup will install files to. Click
 "Change" to modify the installation directory.



 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.



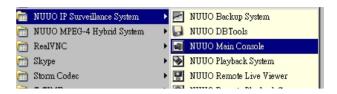
Step 8: Click install to start the installation.



Step 9: Click Finish after installing the system completely.



Execute the Main Console



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.



Appendix - Minimum Hardware Requirement

APPENDIX - MINIMUM HARDWARE REQUIREMENT

This document is to illustrate the hardware requirement for NUUO DVR, NVR, and hybrid system. The requirement specified in this document is the minimum requirement indicated for the desire system.

Note:

- 1. Different chipset for motherboard and display card may have slightly different effect.
- 2. For detail **Hardware Compatibility List**, please refer http://support.nuuo.com/mediawiki/index.php/Hardware_compatibility_list

H.264 Hardware Compression Card (SCB-7000/6000 series)

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	32 ch	16 ch	8 ch	4 ch	
CPU	Intel Core 2	I	ntel Core 2 Duo)	
CPU	Quad Q9400*		E5300		
RAM		2 GB			
Matherhaard Intel P45 or P43 chip or above, MB v			above, MB vendor	Asus,	
Motherboard	Gigabyte or MSI with Intel Chipset recommended				
Diaplay aard	ATI Radeon 3850	/4850 , nVIDIA	GeForce GF-9600	or above (ATI	
Display card Driver V9-2 recommended, ATI Driver V10 not support)				t support)	
Ethernet	100 baseT or above, gigabit LAN recommended				
Hard Disk	250 GB or above				
OS	MS Windows XP pro SP3 / 2003/ Vista SP1 / Win 7				

^{*} Refer the document "System Requirements of NUUO SCB-7000 Series" for more details.

MPEG-4 Software Compression Card (SCB-1000/3000 series)

	SCB-3000s x 2	SCB-3000s	SCB-1000		
CPU	In	tel Core 2 DuoE530	00		
RAM		2 GB			
Motherboard	Intel P45 or P43 chip or above, MB vendor Asus, Gigabyte or MSI with Intel Chipset recommended				
Display card	ATI Radeon 4650, nVIDIA GeForce GF-9600 or above (ATI recommended)				
Ethernet	100 baseT or above, gigabit LAN recommended				
Hard Disk	250 GB or above				
OS	MS Windows XP pro SP3 / 2003 / Vista SP1/ Win 7				

Appendix - Minimum Hardware Requirement

Pure IP NVR

C of all sam	D	С	В	A	
S of all cam.	2200~1400 1400~1050		1050~550	550~	
CPU	Intel Core I7	Intel Core I5	Intel Core 2 Quad Q9400	Intel Core 2 Duo E5300	
RAM	2 GB 2 GB		2 GB	1 GB	
Motherboard	vendor Asus, Giga	nip or above, MB abyte or Intel with recommended	vendor Asus, G	nip or above, MB igabyte or Intel et recommended	
Display card	ATI Radeon 4650, nVIDIA GeForce GF-9600 or above (ATI recommended)				
Ethernet	100 baseT or above, Gigabit LAN recommended				
Hard Disk	250 GB or above				
OS	MS Windows XP pro SP3 / Vista SP1 / Win 7 / Server 2008 RC2				

Parameter definitions:

S = M*N

M: parameter of resolution of IP camera

Resolution	5 M	3 M	2 M	1 M	VGA / D1	CIF
Value of M	37	27	22	14	3	1

N: FPS of Camera

For example: 8 channels system

- a) 1 camera at 1 Mega-pixel resolution with 10FPS
- b) 2 cameras at D1 resolution with 15FPS
- c) 5 cameras at CIF resolution with 30FPS
- a) M=14; N=10, S=14*10=140
- b) M=3; N=15, **S** = 3*15=45
- c) M=1; N=30, S=1*30=30

S of All Cam. = 1*140+2*45+5*30=380

Therefore, the Minimum Hardware Requirement is ${\bf A}$ level.

Appendix - Minimum Hardware Requirement

Hybrid System

S of all cam.	D	С	В	Α	
5 of all cam.	2200~1400 1400~1050		1050~550	550~	
CPU	Intel Core I7	Intel Core I5	Intel Core 2 Quad Q9400	Intel Core 2 Duo E5300	
RAM	2 GB	2 GB	2 GB	1 GB	
Motherboard	vendor Asus, Giga	nip or above, MB abyte or Intel with recommended	vendor Asus, G	0 0	
Display card	ATI Radeon 4650, nVIDIA GeForce GF-9600 or above (ATI recommended)				
Ethernet	100 baseT or above, Gigabit LAN recommended				
Hard Disk	250 GB or above				
OS	MS Windo	ows XP pro SP3 / 2	003 / Vista SP1*/	/ Win 7*	

^{* 5000} series cannot be compatible with Vista and Win 7.

Parameter definitions:

S = M*N + P

M: parameter of resolution of IP camera

Resolution	5 M	3 M	2 M	1 M	VGA / D1	CIF
Value of M	37	27	22	14	3	1

N: FPS of Camera

P: parameter of NUUO compression card

Card	SCB-3000	SCB-1000
Value of P	120	30

Card	SCB-7016	SCB-7008	SCB-7004
Value of P	480	240	120

For example: 16 channels system

- a) 1 camera at 1 Mega-pixel resolution with 10FPS
- b) 2 cameras at D1 resolution with 15FPS
- c) 5 cameras at CIF resolution with 30FPS
- d) 8 cameras with 2pcs SCB-5004
- a) M=14; N=10, S=14*10=140
- b) M=3; N=15, S=3*15=45
- c) M=1; N=30, S=1*30=30
- d) P = 60

S of All Cam.=1*140+2*45+5*30+2*60=500

Therefore, the Minimum Hardware Requirement is ${\bf A}$ level.