NUUO[®]

The Intelligent Surveillance Solution

Hardware & Software NDVR Installation Guide

Ver. 5.1

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6000S/7000S SERIES Product Specification

rioduci 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 Posolution	NTSC: 1	76x120; 352x240; 7	04x480
	PAL: 176x144; 352x288; 704x576		
Compression Format	Hardware Compression H.264		
Compression ronnar	Turuv		11,201
Compression Format	70165	7008S	7004S
Display Rate	7016S 480fps(NTSC); 400fps (PAL)	7008S 240fps(NTSC); 200fps (PAL)	7004S 120fps(NTSC); 100fps (PAL)
Display Rate Recording Rate (D1)	7016S 480fps(NTSC); 400fps (PAL) 480fps(NTSC); 400fps (PAL)	7008S 240fps(NTSC); 200fps (PAL) 240fps(NTSC); 200fps (PAL)	7004S 120fps(NTSC); 100fps (PAL) 120fps(NTSC); 100fps (PAL)
Display Rate Recording Rate (D1) Maximum Card	7016S 480fps(NTSC); 400fps (PAL) 480fps(NTSC); 400fps (PAL) 4	7008S 240fps(NTSC); 200fps (PAL) 240fps(NTSC); 200fps (PAL) 4	7004S 120fps(NTSC); 100fps (PAL) 120fps(NTSC); 100fps (PAL) 4
Display Rate Recording Rate (D1) Maximum Card Video Input	7016S 480fps(NTSC); 400fps (PAL) 480fps(NTSC); 400fps (PAL) 4 16	7008S 240fps(NTSC); 200fps (PAL) 240fps(NTSC); 200fps (PAL) 4 8	7004S 120fps(NTSC); 100fps (PAL) 120fps(NTSC); 100fps (PAL) 4 4
Display Rate Recording Rate (D1) Maximum Card Video Input Audio Input	7016S 480fps(NTSC); 400fps (PAL) 480fps(NTSC); 400fps (PAL) 4 16 16	7008S 240fps(NTSC); 200fps (PAL) 240fps(NTSC); 200fps (PAL) 4 8 8 8	7004S 120fps(NTSC); 100fps (PAL) 120fps(NTSC); 100fps (PAL) 4 4 4
Display Rate Recording Rate (D1) Maximum Card Video Input Audio Input	7016S 480fps(NTSC); 400fps (PAL) 480fps(NTSC); 400fps (PAL) 4 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 17	7008S 240fps(NTSC); 200fps (PAL) 240fps(NTSC); 200fps (PAL) 4 8 8 8 76x120; 352x240; 7	7004S 120fps(NTSC); 100fps (PAL) 120fps(NTSC); 100fps (PAL) 4 4 4 4 704x480
Display Rate Recording Rate (D1) Maximum Card Video Input Audio Input	7016S 480fps(NTSC); 400fps (PAL) 480fps(NTSC); 400fps (PAL) 4 16 16 16 16 12 13 14 15 16 16 16 16 16 16 16 16 16 16 17	7008S 240fps(NTSC); 200fps (PAL) 240fps(NTSC); 200fps (PAL) 4 8 8 76x120; 352x240; 7 76x144; 352x288; 70	7004S 120fps(NTSC); 100fps (PAL) 120fps(NTSC); 100fps (PAL) 4 104x480 04x576

System Requirement

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

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

Step 1: 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



I/O card



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]	
Video Input	16	8	
Audio Input	16	8	
Video Resolution	NTSC: 176x120; 352x240; 704x480		
	PAL: 176x144; 3	52x288; 704x576	
	w/HDMI:RCA & HDMI: 10fps		
TV Output Rate	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 <u>Appendix - Minimum</u> <u>Hardware Requirement</u> or check NUUO Calculator on <u>http://support.nuuo.com/calculator/</u>

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

Step 1: 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.

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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

page - 9

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 <u>Appendix - Minimum</u> <u>Hardware Requirement</u> or check NUUO Calculator on <u>http://support.nuuo.com/calculator/</u>

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

Step 1: 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 Maximum I/O Cards support for 6000S/7000S

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 CD-ROM directly to start the installation.



from the

The Intelligent Surveillance Solution	I> Product Overview I> Online Tech Support Site	
Install	Server Application Installation MainConsole, Playback, Remote Live Viewer, Backup Application and Device Pack	
I Documents	Client Application Installation	
	Failover Aaent Installation	
	Remote Desktop Tool	
	DVR Driver Installation	
	PDA Client Installation	
	Smart Phone Client Installation	
	The Intelligent Currellignee Ce	lution
www.houo.com	The Intelligent Surveillance So	nonon

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.

🕏 NUUODriver Setup	
Installing Please wait while NUUODriver is being installed.	
Search and remove elder driver	
Chan detaile	
Show details	
< Back	Next > Cancel

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

😚 NUUODriver Setup	
	Completing the NUUODriver Setup Wizard Your computer must be restarted in order to complete the installation of NUUODriver. Do you want to reboot now?
L	 Reboot now I want to manually reboot later
	< Back Enish Cancel

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.

NUUO Surveillance System Setup Tool	
Welcome Welcome to Install/Update/Remove NUUO Surveillance System	
NUUO IP Surveillance System / Trial System Pure NVR System	
(ver. 3.5.0.18 installed)	
NULIO MPEG-4 Hybrid System Support Model: SCB-1000s, SCB-3000s	
 NUUO Full HD/D1 H.264 Hybrid System Support Model: SCB-6000s, SCB-7000s, SCB-7100s, SCB-8000s 	
< Back Next >	Cancel

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.

NUUO Full HD H.264 Hybrid System - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	2
End User License Agreement ("EULA") Do not install or use the software until you have read and accepted all of the license terms. Permission to use the software is conditional upon your agreeing to the license terms. Installation or use of the software by you will be deemed to be acceptance of the license terms. Acceptance will bind you to the license terms in a legally enforceable contract with NUUO Inc. * SOFTWARE LICENSE AND LIMITED WARRANTY This is an agreement between you, the end user, and NUUO Inc. ("NUUO"). By using this software, you agree to become bound by the terms of this agreement.	~
accept the terms of the license agreement Print I go not accept the terms of the license agreement InstallShield	
< <u>B</u> ack <u>N</u> ext > Cance	el 🛛

Step 6: Please enteryour name and the company name for which you work. Click **Next** to continuous.

NUUO Full HD H.264 Hybrid System - InstallShield Wizard
Customer Information Please enter your information.
Please enter your name and the name of the company for which you work.
User Name:
huuo_user
Company Name:
nuuo
nstallomeld



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.

NUUO IP Surveillance System - InstallShield	Wizard
Choose Destination Location Select folder where setup will install files.	A.
Install NUUD IP Surveillance System C:\Program Files\NUUD\SCB_IP	o:
InstallShield	< <u>B</u> ack Next> Cancel

- 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.

NUUO Full HD H.264 Hybrid System - InstallShield Wizard	×
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Bac the wizard.	sk, Click Cancel to exit
InstallShield	
< <u>B</u> ack Insta	II Cancel

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.

First Execution of M	in Console System	
	The Inte Surveillance So	elligent olution
Please enter pas User Account Password Password Confirm:	word for administrator	ancel

SOFTWARE INSTALLATION - EXPRESS MODE

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

Install Server Application Installation Maric Carole, Protocic, Remote Live Viewer, Backup Application and Device Pack
Documents Client Application Installation
Failover Agent Installation
Remote Desktop Tool
DVR Driver Installation
PDA Client Installation
Smart Phone Client Installation
1

- 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.

nuuo	The Intel Surveillance So	ligen lutior
Please enter pass	word for administrator	_
Password: Password Confirm:	✓ ок Х са	ncel

SOFTWARE INSTALLATION - FAILOVER AGENT (STANDARD MODE)

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

The Intelligent Surveillance Solution	 Product Overview Online Tech Support Site
Install	Server Application Installation
▶ Documents	Client Application Installation
	Failover Acent Installation Follower to gward Mahaconsole when its fail, acting as a redundant system Remote Desktop Tool DVR Driver Installation PDA Client Installation Smart Phone Client 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.

NUUO IP Surveillance System - InstallShield Wizard	X
License Agreement Please read the following license agreement carefully.	
End User License Agreement ("EULA") Do not install or use the software until you have read and accepted all of the license terms. Permission to use the software is conditional upon your agreeing to the license terms. Installation or use of the software by you will be deemed to be acceptance of the license terms. Acceptance will bind you to the license terms in a legally enforceable contract with NUUO Inc. * SOFTWARE LICENSE AND LIMITED WARRANTY This is an agreement between you, the end user, and NUUO Inc. ("NUUO"). By using this software, you agree to become bound by the terms of this agreement.	
I accept the terms of the license agreement D I go not accept the terms of the license agreement InstallShield]
< <u>Back</u> Next > Cancel	

Step 7: Please enter your name and the company name for which you work. Click **Next** to continuous.

NUUO IP Surveillance System - InstallShield Wizard
Customer Information Please enter your information.
Please enter your name and the name of the company for which you work.
User Name:
nuud
Company Name:
nuuo
InstallShield



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.

-		/		/
	NUUO IP S	nrveillance System - InstallShie	ld Wizard	
	Choose Destination Location Select folder where setup will install files.			Nº2
	Install NUUO IP Surveillance System to:		n to:	
		C:\Program Files\NUUO\Failover A	gent	Change
	InstallShield -			
			< Back Next >	Cancel



- 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.



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Step 10: Execute the Failover Agent

💼 NUUO Failover Agent

٢	NUUO Failover Agent
1	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.

🙆 Passw	ord Setting	
Please enter password for administrator		
Passw	ord:	
Passw	ord Confirm:	
	V OK X 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.

NUUO IP Surveillance System - InstallShield Wizard
Ready to Install the Program The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< <u>B</u> ack Install Cancel

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: <u>http://www.youtube.com/watch?v=xERxpbwBt0U</u>

Note: When use Windows Server 2012, please enable desktop experience first before start Mainconsole. For further steps, please refer to: <u>http://social.technet.microsoft.com/wiki/contents/articles/10531.windows</u>-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**.

	TFTP Client	
⊿	User Interfaces and Infrastructure (Installed)	L
	Graphical Management Tools and Infrastructure (Installed)	
	Contraction Desktop Experience	≡
	Server Graphical Shell (Installed)	
	Windows Biometric Framework	H

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: <u>http://www.nuuo.com/calculator/</u>