

NUUO 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: different chipset for motherboard and video card may have slightly different effect.

H.264 Hardware Compression Card (SCB-5000 series)

	64 channels	32 channels	16 channels	8 channels	4 channels
CPU	Intel Core 2 Duo E6400	Intel Pentium D 930	Intel Pentium D 930	Intel P4 2.8 GHz	Intel P4 2.8 GHz
RAM	1 GB	1 GB	1 GB	512 MB	512 MB
Mother board	Intel 945 or 965 chip or above, MB vendor Asus with Intel Chipset recommended				
Video card	ATI Radeon 9200 , NVIDIA GeForce FX-5200 , Intel 945G/965G or above (ATI recommended)				
Ethernet	100 baseT or above, gigabit LAN recommended				
Hard Disk	80 GB or above				
OS	MS Windows 2000 / XP pro sp2 / 2003				

MPEG-4 Software Compression Card (SCB-1000/2000/3000/4000 series)

	SCB-4000 (480fps)	SCB-3000 x2 (240fps)	SCB-3000 (120fps)	SCB-2000 (60fps)	SCB-1000 (30fps)
CPU	Intel Core 2 Duo E6400	Intel Core 2 Duo E6400	Intel Pentium D 930	Intel P4 2.8 GHz	Intel P4 2.8 GHz
RAM	2 GB	1 GB	1 GB	512 MB	512 MB
Mother board	Intel 945 or 965 chip or above, MB vendor Asus with Intel Chipset recommended				
Video card	ATI Radeon 9200 , NVIDIA GeForce FX-5200 , Intel 945G/965G or above (ATI recommended)				
Ethernet	100 baseT or above, gigabit LAN recommended				
Hard Disk	80 GB or above				
OS	MS Windows 2000 / XP pro sp2 / 2003/ Vista (SCB-G3-1000, SCB-G3-2000, SCB-G3-3000 are compatible with Vista, except SCB-4016)				

Pure IP NVR

Parameter definition:

M: parameter of resolution of camera.

1 Mega-pixel : **M=10**

VGA or D1 resolution : **M=5**

CIF resolution : **M=1**

N: FPS of Camera

S=M*N

For example: 8 channel 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=10; N=10, S=10*10=100

b) M=5; N=15, S=5*15=75

c) M=1; N=30, S=1*30=30

S of All Cam.=1*100+2*75+5*30=400

Therefore, the Minimum Hardware Requirement is **C level**.

Minimum Hardware Requirement

	E	D	C	B	A
S of All Cam.	1200~600	600~480	480~240	240~120	120~0
CPU	Intel Core 2 Quad Q6600	Intel Core 2 Duo E6400	Intel Pentium D 930	Intel P4 2.8 GHz	Intel P4 2.8 GHz
RAM	2 GB	1 GB	1 GB	512 MB	512 MB
Mother board	Intel 945 or 965 chip or above, MB vendor Asus with Intel Chipset recommended				
Video card	ATI Radeon 9200 , NVIDIA GeForce FX-5200 , Intel 945G/965G or above (ATI recommended)				
Ethernet	100 baseT or above, Gigabit LAN recommended				
Hard Disk	80 GB or above				
OS	MS Windows 2000 / XP pro sp2 / 2003 / Vista				

Hybrid System

1. For IP network camera

Parameter definition:

M: parameter of resolution of camera.

1 Mega-pixel : **M=10**

VGA or D1 resolution : **M=5**

CIF resolution : **M=1**

N: FPS of Camera

2. For analog camera (capture card)

P:

Series	SCB-4000	SCB-3000	SCB-2000	SCB-1000
P	480	120	60	30
Series	SCB-5016	SCB-5008	SCB-5004	
P	240	120	60	

$$S=M*N+P$$

For example: 16 channel system

- 1 camera at 1 Mega-pixel resolution with 10FPS
- 2 cameras at D1 resolution with 15FPS
- 5 cameras at CIF resolution with 30FPS
- 8 cameras with 2pcs SCB-5004

a) $M=10; N=10, S=10*10=100$

b) $M=5; N=15, S=5*15=75$

c) $M=1; N=30, S=1*30=30$

d) $P=60$

S of All Cam.= $1*100+2*75+5*30+2*60=520$

Therefore, the Minimum Hardware Requirement is **D level**.

Minimum Hardware Requirement

	E	D	C	B	A
S of All Cam.	1200~600	600~480	480~240	240~120	120~0
CPU	Intel Core 2 Quad Q6600	Intel Core 2 Duo E6400	Intel Pentium D 930	Intel P4 2.8 GHz	Intel P4 2.8 GHz
RAM	2 GB	1 GB	1 GB	512 MB	512 MB
Mother board	Intel 945 or 965 chip or above, MB vendor Asus with Intel Chipset recommended				
Video card	ATI Radeon 9200 , NVIDIA GeForce FX-5200 , Intel 945G/965G or above (ATI recommended)				
Ethernet	100 baseT or above, Gigabit LAN recommended				
Hard Disk	80 GB or above				
OS	MS Windows 2000 / XP pro sp2 / 2003 / Vista				

In order to ensure the compatibility of PC specification and NUUO products, **we strongly recommend NOT using VIA/SiS chipsets and SiS VGA chips** due to their severe limitation of the chipset design.

On the other hand, to ensure the stability and performance of NUUO product, **please make sure you use the independent graphic card with 128 MB memory** above instead of built-in onboard VGA card.

NUUO products support most of the current Intel chipset for motherboards. Intel 865, 915, 945, 965, 975X, P35, G31 Platform Processor chipsets and so on.

The following information is all the hardware equipment that has been confirmedly tested.

MPEG4 (SCB 1000/2000/3000 series)

Mother board

chipset		Vendor		
		Asus	Gigabyte	Intel
Intel	Intel 865	P5P800-VM P4P800 SE P4P800 X P5P800		
	Intel 945	P5L-MX P5PL2 P5LD2	945GME-DS2 945P-S3 945PL-S3E	D945GTP
	Intel 965	P5B P5B SE P5B-Deluxe		DQ965GF
	Intel 975X	P5WDG2 WS PRO		
	Intel P35	P5K - E		
	Intel P43	P5QL-E		
	Intel P45	P5Q		
	Intel Q35			DQ35JO*
NVIDIA	NVIDIA GeForce6100 + NVIDIA nForce410	K8N-VM		
	NVIDIA nForce4	A8N5X		
	NVIDIA nForce 650i SLI™	P5N-E SLI		
	NVIDIA nForce 570	M2N-E		

* Intel DQ35JO can't be compatible to ATI display card.

Video Card

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TEL: +886-2-2362-2260 FAX: +886-2-2362-2296

Brand	product
ATI	Fire GL V3300
	Radeon 9200 SE
	Radeon 9550
	Radeon X300 Series
	Radeon X550 Series
	Radeon X700 Series
	Radeon X1300 Series
	Radeon X1550 Series
	Radeon X1600 Series
	Radeon HD 2400 Series
	Radeon HD 3400 Series
	Radeon HD 3600 Series
	Radeon HD 3800 Series
	Radeon HD 4350 Series
Radeon HD 4670 Series	
NVIDIA	MX 400
	MX 440 SE
	GeForce 5200
	GeForce 6100
	GeForce 6200
	GeForce 6600
	GeForce 7100 GS
	GeForce 7300 GT
	GeForce 8600 GT
	GeForce FX5200

Incompatible

Mother Board	Vendor	Chipset	Product
Intel		Intel 945GCC	
		Intel G31	

SCB-4016

Mother Board

chipset		Vendor				
		Asus	Gigabyte	Intel	MSI	other
Intel	Intel 865	P5P800-VM P4P800 P4P800 SE P4P800 X P5P800	81PE1000-G		865PE Neo2-FIS2R(6728)	
	Intel 915	P5GD1-VM P4GPL-X				
	Intel 945	P5L-MX P5PL2-E P5LD2 P5LD2-VM P5PL2	945GME-DS2 8I945P-G-RH 945P-S3 945PL-S3E	D945GTP	945PL Neo3 (7236) 945GM2 H	
	Intel 965	P5B P5B SE P5B-Deluxe			DG965WH DQ965GF	
	Intel 975X	P5WDG Pro				
	Intel® G33 + ICH9 Chipset					Supermicro C2SBA
	Intel P35	P5K - E			P35 Neo-F	
	Intel P43	P5QL-E				
	Intel P45	P5Q				
NVIDIA	NVIDIA nForce 650i SLI™	P5N-E SLI				
	NVIDIA nForce4	A8N5X				
	NVIDIA GeForce6100 + NVIDIA nForce410	K8N-VM				
	NVIDIA nForce 570	M2N-E				

Video Card

Brand	Chipset
ATI	Radeon 9200
	Radeon 9200 SE
	Radeon 9250 (RV280)
	Radeon 9550
	Radeon X300 Series
	Radeon X550 Series
	Radeon X600 Series
	Radeon X700 Series
	Radeon X1300 Series

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Brand	Chipset
	Radeon X1550 Series
	Radeon X1600 Series
	Radeon X1650 Series
	Radeon X1950 Series
	Radeon HD 2400 Series
	Radeon HD 3400 Series
	Radeon HD 3600 Series
	Radeon HD 3800 Series
	Radeon HD 4300 Series
	Radeon HD 4670 Series
	NVIDIA
MX440	
GeForce 5200	
GeForce 6100	
GeForce 6200	
GeForce 6600	
GeForce FX5200	
GeForce FX7300	
GeForce 7100 GS	
GeForce 7300 GS	
GeForce 7300 GT	
GeForce 7600GT	

Incompatible

Mother Board	Vendor	Chipset	Product
Intel		Intel G31	

Video Card	Chipset
NVIDIA	MX4000
	GeForce FX8500
	GeForce 8600 GT
Integrated graphics	
Mother board	Integrated graphic
MIS 845G	845GV
Abit IG-80	915G

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MIS 945G	945G
Gigabyte	GA-EP45-DS3L

H.264 (SCB 5004/5008/5016)

Mother Board

chipset		Vendor				
		Asus	Gigabyte	MSI	Intel	Other
Intel	Intel 865	P5P800-VM P4P800 SE P4P800 X P5P800				
	Intel 945	P5L-MX P5PL2 P5LD2	945P-S3 945PL-S3E		D945GTP	
	Intel 965	P5B P5B SE P5B-Deluxe			DQ965GF	
	Intel G31	P5KPL-VM				
	Intel® G33 + ICH9 Chipset					Supermicro C2SBA
	Intel P35	P5K - E				
	Intel P43	P5QL-E				
	Intel P45	P5Q				
				P45 Neo3-FR		
Intel Q35				DQ35JO*		
NVIDIA	NVIDIA® nForce® 650i SLI™	P5N-E SLI				
	NVIDIA nForce4	A8N5X				
	NVIDIA GeForce6100 + NVIDIA nForce410	K8N-VM				
	NVIDIA nForce 570	M2N-E				

* Intel DQ35JO can't be compatible to ATI display card.

* P45 Neo3-FR is compatible with 4*SCB-5016 card.

Video Card

Brand	Chipset
ATI	Fire GL V3300
	Radeon 7000
	Radeon 7200
	Radeon 8500
	Radeon 9000
	Radeon 9200
	Radeon 9200 SE

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Brand	Chipset
	Radeon 9550
	Radeon 9600
	Radeon X300 Series
	Radeon X550 Series
	Radeon X700 Series
	Radeon X1300 Series
	Radeon X1550 Series
	Radeon X1600 Series
	Radeon HD 2400 Series
	Radeon HD 3400 Series
	Radeon HD 3600 Series
	Radeon HD 3800 Series
	Radeon HD 4350 Series
	Radeon HD 4670 Series
NVIDIA	GeForce 5200
	GeForce 5600
	GeForce 6100
	GeForce 6200
	GeForce 6600
	GeForce FX5200
Matrox	G450
	G550
	P750
SIS	651 series

Incompatible

Mother Board	Vendor	Chipset	Product
Intel		Intel 945GCC	
Video Card	Chipset		
NVIDIA	GeForce 7100 GS		
	GeForce 7300 GT		
	GeForce 8600 GT		

We recommend ATI display cards. Other display cards may not be compatible with SCB-5000 series.

If you meet problem with display cards, please disable overlay first then try again.

Disabling overlay will cause the CPU loading to increase.

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Subject:

Minimum Hardware Requirement

Part No.:

99.302.8925.001

Rev.: 1

How to disable overlay:

1. Main Console/Config/Setting/General/Use Overlay Preview/disable it
2. Restart Main Console

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