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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. NUUO will keep update the hardware compatibility list on web

http://support.nuuo.com/mediawiki/index.php/Hardware_compatibility_list

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

SCB-7000s Hardware Compression Card (H.264)

	SCB-7016 x2 (960fps*)	SCB-7016 (480fps*)	SCB-7008 (240fps*)	SCB-7004 (120fps*)
CPU	Intel Core 2 Quad Q9550 **	Intel Dual Core E5200 **	Intel Dual Core E5200 **	Intel Dual Core E5200 **
RAM	3 GB	2 GB	1 GB	1 GB
Mother-board	Intel G31, G35, P35, G43, P45, Q45 chip, Intel and ASUS motherboard recommended			
Display	nVidia 8500GT/9400G, ATI Radeon HD2400/X1600/4350 chipset graphic card			
Ethernet	100 BaseT or Above, Gigabit LAN Recommended			
Hard Disk	80 GB or above ***			
OS	MS Windows XP Pro SP3 / 2003 / Vista SP1			

* FPS is based on D1 resolution.

** For more information about the system requirements of different channels, please refer to the document "System Requirements of NUUO SCB-7000 series".

*** When setting up a system which is more than 16 channels, the throughput of the hard disk will not be enough. Build a RAID 0 system to solve this issue.

Note: The detail of the function limitation of each system, please refer the **Appendix A**.

SCB-6000s Hardware Compression Card (H.264)

	SCB-6016 x2 (960fps*)	SCB-6016 (480fps*)	SCB-6008 (240fps*)	SCB-6004 (120fps*)
CPU	Intel Core 2 Duo E8500	Intel Dual Core E5200	Intel Dual Core E5200	Intel Dual Core E5200
RAM	3 GB	2 GB	1 GB	1 GB
Mother-board	Intel G31, G35, P35, G43, P45, Q45 chip, Intel and ASUS motherboard recommended			
Display	nVidia 8500GT/9400G, ATI Radeon HD2400/X1600/4350 chipset graphic card			
Ethernet	100 BaseT or Above, Gigabit LAN Recommended			
Hard Disk	80 GB			
OS	Windows XP SP3/ Windows 2003/ Windows Vista SP1			

* FPS is based on CIF resolution.

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

	64 channels	32 channels	16 channels	8 channels	4 channels
CPU	Intel Core 2 Duo E6400	Intel Core 2 Duo E6400	Intel Pentium D 930	Intel P4 2.8 GHz	Intel P4 2.4 GHz
RAM	3 GB	3 GB	2 GB	1 GB	1 GB
Mother-board	Intel 945 or 965 chip, Intel Chipset recommended				
Display	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 XP Pro SP3 / 2003				

SCB-1000s, 2000s, 3000s, 4016 Software Compression Card (MPEG-4)

	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	3 GB	2 GB	1 GB	1 GB
Mother-board	Intel 945 or 965 chip, Intel Chipset recommended				
Display	ATI Radeon 9200, nVIDIA GeForce FX-5200, Intel 945 / 965, or above (ATI recommended)				
Ethernet	100 BaseT or Above, Gigabit LAN Recommended				
Hard Disk	80 GB or above				
OS	MS Windows XP Pro SP3 / 2003 / Vista*				

* SCB-4016 not support Windows Vista

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Pure IP NVR

S*	E	D	C	B	A
CPU	Intel Core 2 Quad Q6600	Intel Core 2 Duo E6400	Intel Pentium D 930	Intel P4 2.8 GHz	Intel P4 2.4 GHz
RAM	3 GB	3 GB	2 GB	1 GB	1 GB
Mother-board	Intel 945 or 965 chip or above, Intel Chipset recommended				
Display	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 XP Pro SP3 / 2003 / Vista				

* The definition of S is as below:

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 M=10; N=10, S=10*10=100

b) 2 cameras at D1 resolution with 15FPS M=5; N=15, S=5*15=75

c) 5 cameras at CIF resolution with 30FPS 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**.

Hybrid System

S**	E	D	C	B	A
	1200~600	600~480	480~240	240~120	120~
CPU	Intel Core 2 Quad Q6600	Intel Core 2 Duo E6400	Intel Pentium D 930	Intel P4 2.8 GHz	Intel P4 2.4 GHz
RAM	3 GB	3 GB	2 GB	1 GB	1 GB
Mother-board	Intel 945 or 965 chip or above, Intel Chipset recommended				
Display	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 XP Pro SP3 / 2003 / Vista *				

* SCB-5000s and SCB-4016 not support Vista

** The definition of S is as below:

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: parameter of different capture card

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

- | | |
|---|-------------------------|
| a) 1 camera at 1 Mega-pixel resolution with 10FPS | M=10; N=10, S=10*10=100 |
| b) 2 cameras at D1 resolution with 15FPS | M=5; N=15, S=5*15=75 |
| c) 5 cameras at CIF resolution with 30FPS | M=1; N=30, S=1*30=30 |
| d) 8 cameras with 2pcs SCB-5004 | P=60 |

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

Therefore, the Minimum Hardware Requirement is D level.

Appendix A : Function limitation of SCB-7000s card:

4ch, D1, Real-time System Requirement						
CPU Model Name	Number of channels	Recording (4ch)	Live View (4ch)	Smart Guard (4ch*)	Remote Live View (4ch)	Playback channels**
Intel Core 2 Duo E5200	4 (7004 x1)	O	O	X	X	4
		X	O	O	X	4
		X	O	X	O	4
		O	O	O	X	4
		X	O	O	O	4
		O	O	X	O	4
		O	O	O	O	4
		X	X	X	X	4

8ch, D1, Real-time System Requirement						
CPU Model Name	Number of channels	Recording (8ch)	Live View (8ch)	Smart Guard (8ch*)	Remote Live View (8ch)	Playback channels**
Intel Core 2 Duo E5200	8 (7004 x2) (7008 x1)	O	O	X	X	8
		X	O	O	X	8
		X	O	X	O	8
		O	O	O	X	8
		X	O	O	O	8
		O	O	X	O	8
		O	O	O	O	8
		X	X	X	X	8

Hardware Requirement

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16/32ch, D1, Real-time System Requirement						
CPU Model Name	Number of channels	Recording (16/32ch)	Live View (16/32ch)	Smart Guard (16/32ch*)	Remote Live View (16/32ch)	Playback channels**
Intel Core 2 Duo E5200	16 (7008 x2) (7016 x1)	O	O	X	X	9
		X	O	O	X	9
		X	O	X	O	9
		O	O	O	X	9
		X	O	O	O	8
		O	O	X	O	9
		O	O	O	O	8
		X	X	X	X	10
Intel Core 2 Duo E5200	32 (7008 x4) (7016 x2)	O	O	X	X	8
		X	O	O	X	8
		X	O	X	O	9
		O	O	O	X	8
		X	O	O	O	8
		O	O	X	O	9
		O	O	O	O	7
		X	X	X	X	10
Intel Core 2 Quad Q9550	16 (7008 x2) (7016 x1)	O	O	X	X	15
		X	O	O	X	15
		X	O	X	O	15
		O	O	O	X	14
		X	O	O	O	13
		O	O	X	O	15
		O	O	O	O	13
		X	X	X	X	16
Intel Core 2 Quad Q9550	32 (7008 x4) (7016 x2)	O	O	X	X	14
		X	O	O	X	14
		X	O	X	O	14
		O	O	O	X	13
		X	O	O	O	13
		O	O	X	O	14
		O	O	O	O	12
		X	X	X	X	16

* All channels are set "General Motion".

** The number of channels this system can playback under those settings.

*** This test is based on 2 GB DRAM, and Windows XP SP3 operation system.

**** "O" means the system enables that function. "X" means the system disables that function.