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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:

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)

	32 ch	16 ch	8 ch	4 ch
CPU	Intel Core 2 Quad Q9400*		Intel Core 2 Duo E5300	
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 3850/4850 , nVIDIA GeForce GF-9600 or above (ATI Driver V9-2 recommended , ATI Driver V10 not 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.

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

	48 ch	32 ch	16 ch	8 ch	4 ch
CPU	Intel Core 2 Duo E5300				
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 3850/4850 , nVIDIA GeForce GF-9600 or above (ATI Driver V9-2 recommended , ATI Driver V10 not support)				
Ethernet	100 baseT or above, gigabit LAN recommended				
Hard Disk	250 GB or above				
OS	MS Windows XP pro SP3 / 2003				

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

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

	SCB-3000s x 2	SCB-3000s	SCB-2000	SCB-1000
CPU	Intel Core 2 Duo E5300			
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			

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Pure IP NVR

S of all cam.	D	C	B	A
	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	Intel 55 or 57 chip or above, MB vendor Asus, Gigabyte or Intel with Intel Chipset recommended		Intel 35 or 33 chip or above, MB vendor Asus, Gigabyte or Intel 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			

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 **A level**.

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Hybrid System

S of all cam.	D	C	B	A
	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	Intel 55 or 57 chip or above, MB vendor Asus, Gigabyte or Intel with Intel Chipset recommended		Intel 35 or 33 chip or above, MB vendor Asus, Gigabyte or Intel 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*			

* 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-2000	SCB-1000
Value of P	120	60	30

Card	SCB-5016	SCB-5008	SCB-5004
Value of P	240	120	60

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

For example: 16 channels 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) $M=14$; $N=10$, $S = 14 * 10 = 140$

b) $M=3$; $N=15$, $S = 3 * 15 = 45$

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

d) $P=60$

$$S \text{ of All Cam.} = 1 * 140 + 2 * 45 + 5 * 30 + 2 * 60 = 500$$

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