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## NUUO Minimum Hardware Requirement

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

### Note:

1. Different chipsets for motherboards and display cards may have slightly different effect.
2. For detailed **Hardware Compatibility List**, please refer to [http://support.nuuo.com/mediawiki/index.php/Hardware\\_compatibility\\_list](http://support.nuuo.com/mediawiki/index.php/Hardware_compatibility_list)

### H.264 Hardware Compression Card (SCB-8004HD/7100/7000S/6000S series)

	32 ch	16 ch	8 ch	4 ch
CPU	Intel Core 2 DuoE5300(6000S/7000S/8000HD series) Intel Core 2 QuadQ8400(7100 series)			
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 HD 4350 or above (ATI Driver V11-5 recommended ATI Driver V10 not support)			
Ethernet	100 baseT or above, gigabit LAN recommended			
Hard Disk	250 GB or above			
OS	Windows XP (32-bit) / Windows 7 (32 and 64-bit) / Windows 2008 (64-bit)			

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

	SCB-3000s x 2	SCB-3000s	SCB-1000
CPU	Intel Core 2 DuoE5300		
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 HD 4350 or above (ATI Driver V11-5 recommended ATI Driver V10 not support)		
Ethernet	100 baseT or above, gigabit LAN recommended		
Hard Disk	250 GB or above		
OS	Windows XP (32-bit) / Windows 7 (32 and 64-bit) / Windows 2008 (64-bit)		

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## Pure IP NVR

<b>S of all cam.</b>	<b>D</b>	<b>C</b>	<b>B</b>	<b>A</b>
	<b>2200~1400</b>	<b>1400~1050</b>	<b>1050~550</b>	<b>550~</b>
CPU	<b>Intel Core I7</b>	<b>Intel Core I5</b>	<b>Intel Core 2 Quad Q9400</b>	<b>Intel Core 2 Duo E5300</b>
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 HD 4350 or above (ATI Driver V11-5 recommended ATI Driver V10 not support)			
Ethernet	100 baseT or above, Gigabit LAN recommended			
Hard Disk	250 GB or above			
OS	Windows XP (32-bit) / Windows 7 (32 and 64-bit) / Windows 2008 (64-bit)			

### 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 <b>M</b>	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

<b>S of all cam.</b>	<b>D</b>	<b>C</b>	<b>B</b>	<b>A</b>
	<b>2200~1400</b>	<b>1400~1050</b>	<b>1050~550</b>	<b>550~</b>
CPU	<b>Intel Core I7</b>	<b>Intel Core I5</b>	<b>Intel Core 2 Quad Q9400</b>	<b>Intel Core 2 Duo E5300</b>
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 HD 4350 or above (ATI Driver V11-5 recommended ATI Driver V10 not support)			
Ethernet	100 baseT or above, Gigabit LAN recommended			
Hard Disk	250 GB or above			
OS	Windows XP (32-bit) / Windows 7 (32 and 64-bit) / Windows 2008 (64-bit)			

### 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 <b>M</b>	37	27	22	14	3	1

**N:** FPS of Camera

**P:** parameter of NUUO compression card

Card	SCB-3000	SCB-1000
Value of <b>P</b>	120	30

Card	SCB-7016	SCB-7008	SCB-7004
Value of <b>P</b>	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**.