

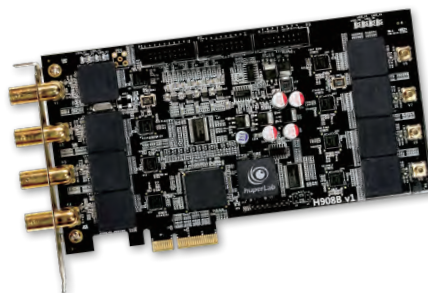
huperVision 4000

Hardware Product Guide



■ 1080p/720p HD-SDI DVR Card

- 8CH 1080p/720p Real-time Display & Recording
- Over 200M Transmission Distance
- Easy to build a 16CH HD-SDI DVR with Two HD-SDI Cards
- Support Hybrid Function of HD-SDI and IP cameras



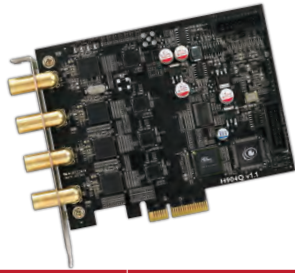
Product Models	4908A-240V	4908A-120V	4908A-60V	4908A-30
Video Inputs (HD-SDI)	8			
Max. IP Cam Connection*	8	8	4	4
Audio Input	8 (Internal/External)			
Display Rate				
1080P (30/25FPS)	240FPS 200FPS			
720P (60/50FPS)	480FPS 400FPS			
Recording Rate				
1080P (30/25FPS)	240FPS 200FPS	120FPS 100FPS	60FPS 50FPS	30FPS 25FPS
720P (60/50FPS)	480FPS 480FPS	240FPS 200FPS	120FPS 100FPS	60FPS 50FPS
Recording Video Resolution				
1080p	1920x1080 (1080P), 1920x528, 960x528, 1280x720(720P), 720x480, 320x240			
720p	1280x720 (720P), 1280x352, 640x352, 720x480, 320x240			
Video Compression	H.264 / HM (MPEG-4 Like) / Motion-JPEG			
Hardware Watchdog	Hardware watch dog for anti-freeze protection and system recovery			
GPIO	8			
PC Interface	PCIe 2.0 x4 **			
System Expansion	Stacked with huperVision 4900 HD-SDI cards or 4700 cards to build up to 64CH system			
Card Size	8.27" x 5.12" / 21 x 13 cm			
Surveillance Software	huperVision 4000 v1.6c or above			

Note: 1. *The Max. IP Cam Connection allows free IP camera connection included in the total number of video input. For example, 4908A-60V card allows up to 4 IP camera and 4 HD-SDI camera connections.
 2. **The motherboard with PCIe 2.0 x4 slot is recommended for 4908A cards. For more optional IVS support features, please refer to huperLab's sales representatives.
 3. Audio Input works with the HD-SDI camera with built-in audio input function or external audio cables required.
 4. Product specifications are subject to change without notice.

Why huperVision HD-SDI?

- Up to 16CH 1080p 480FPS/320RFPS
- Over 200M transmission distance
- Support HD Tribrid(HD-SDI, IP, 960H/CCTV)
- High quality H.264 compression
- Extendible storage space to DAS/NAS/SAN
- 2D & 3D video analytics
- Available with huper HD-SDI cameras



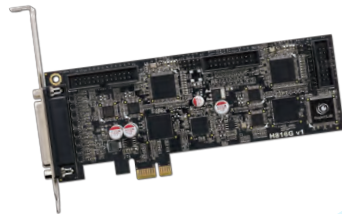


- 4CH HD-SDI Card
- 1080p/720p Real-time Display & Recording
- Surge Protection Design

Product Models	4904A-120V	4904A-60V	4904A-30V
Video Inputs (HD-SDI)	4		
Max. IP Cam Connection*	4	4	2
Audio Input	4 (Internal/External)		
Display Rate			
1080P (30/25FPS)	120FPS		
720P (60/50FPS)	100FPS		
Recording Rate			
1080P (30/25FPS)	120FPS	60FPS	30FPS
720P (60/50FPS)	100FPS	50FPS	25FPS
720P (60/50FPS)	240FPS	120FPS	60FPS
720P (60/50FPS)	200FPS	100FPS	50FPS
Recording Video Resolution			
1080p	1920x1080(1080P), 1920x528, 960x528, 1280x720(720P), 720x480, 320x240		
720p	1280x720(720P), 1280x352, 640x352, 720x480, 320x240		
Video Compression	H.264 / HM (MPEG-4 Like) / Motion-JPEG		
Hardware Watchdog	Hardware watch dog for anti-freeze protection and system recovery		
GPIO	4		
PC Interface	PCIe x 4		
System Expansion	Stacked with huperVision 4900 HD-SDI cards or 4700 cards to build up to 64CH system		
Card Size	6.1" x 3.94" / 15.5 x 10 cm		
Surveillance Software	huperVision 4000 v1.6c or above		

Note: 1. *The Max. IP Cam Connection allows free IP camera connection included in the total number of video input. For example, 4904A-120V card allows up to 4 IP camera connections.
2. Audio Input works with the HD-SDI camera with built-in audio input function or external audio cables required.

■ Ultra 960H DVR Card



- 960H Progressive*
- Surge Protection Design
- 30% Higher Resolution than D1 Video
- Image Quality Upgrade without Re-wiring

Product Models	4816B-Q960V	4816B-H480V	4816B-240V	4816B-120V	4816B-60
Video Input (BNC)	16				
Audio Input (RCA)	16				
Max. IP Cam Connection*	8	8	8	4	4
Display Rate (NTSC/PAL)	480FPS/400FPS @ D1/960H				
Display Video Resolution					
NTSC	960x480 Progressive, 960x480(HD), 960x480(SW), 720x480(HD), 720x480, 720x480 SW, 704x480(HD), 704x480, 704x480 SW, 640x480(HD), 640x480, 640x480 SW, 320x240				
PAL	960x576 Progressive, 960x576(HD), 960x288(SW), 720x576(HD), 720x576, 720x576 SW, 704x576(HD), 704x576, 704x576 SW, 640x480(HD), 640x480, 640x480 SW, 320x240				
Total Recording Rate (NTSC/PAL)					
960x480 / 960x576	480/400FPS	240/200FPS	240/200FPS	120/100FPS	60/50FPS
960x240 / 960x288	240/200FPS	480/400FPS	480/400FPS	240/200FPS	120/100FPS
720x480 / 720x576	960/800FPS	480/400FPS	240/200FPS	120/100FPS	60/50FPS
720x240/ 720x288	480/400FPS	480/400FPS	480/400FPS	240/200FPS	120/100FPS
352x240/ 352x288	480/400FPS	480/400FPS	480/400FPS	480/400FPS	240/200FPS
320x240	480/400FPS	480/400FPS	480/400FPS	480/400FPS	240/200FPS
GPIO	8				
Video Compression Format	H.264 / HM (MPEG-4 Like) / Motion-JPEG				
Hardware Watchdog	Hardware watch dog for anti-freeze protection and system recovery				
PC Interface	PCIe 2.0 x 1				
System Expansion	Stacked with huperVision 4900 HD-SDI cards or 4700 cards to build up to 64CH system				
Surveillance Software	huperVision 4000 v1.7 or above				
Card Dimension	6.65" x 2.72" / 16.9 x 6.9 cm				

Note: *available with huper 960H cameras only.

■ All-in-one Vento2 DSS Server Board

- Up to 32CH 960FPS/800FPS @D1 Display & Recording
- Industry-level Board Design Exclusively for Surveillance Use
- True Hybrid DVR/NVR
- Ideal for 1080p/720p HD & Large Scale Surveillance
- Up to 8 TV-outs
- Window Embedded DOM Ready



Item	Description
Chipset	Intel® Q67 Chipset
Form Factor	MicroATX (9.6 inch x 8.9 inch / 24.4 cm x 22.6 cm)
Processor	Intel® Socket 1155 for 3rd/2nd Generation Core™ i7 / Core™ i5 / Core™ i3 / Pentium® / Celeron® Processors
Memory Type	Support DDR3 1066 / 1333MHz SDRAM with Non-ECC, un-buffered memory
Max. Memory	16GB
Memory Slot	DDR3 DIMM x 4
Expansion Slots	One PCI Express x16 / One Mini-PCI Express
Video In	16/32 CH video inputs (10 bit ADC)
Graphics	Intel® integrated graphic engine Dual Display : • VGA + DVI • VGA + HDMI • DVI + HDMI
Storage Interface	SATA 3.0 x 2 / SATA 2.0 x 4
LAN	Dual 10/100/1000 LAN
Audio	Realtek ALC886 HD
Internal I/O	USB2.0 x 2 / Front Audio x 1 / COM x 2
Rear I/O	USB2.0 x 4 / LAN (RJ45) port x 2 / Audio jack x 3 / 16CH Video In (LPT Port) x 1 / VGA x 1 / DVI x 1 / HDMI x 1
Internal Serial Ports	COM1: RS232/422/485, 2x5/2.0 Box header COM2: RS232/422/485, 2x5/2.0 Box header

Product Model	Vento2 532B-960V	Vento2 532B-480V	Vento2 532B-240V	Vento2 516B-480V	Vento2 516B-240V	Vento2 516B-120V
Video Input (Analog)	32			16		
Audio Input	32			16		
Display Rate (NTSC / PAL)	960FPS / 800FPS @ D1			480FPS / 400FPS @ D1		
Recording Rate (NTSC / PAL)						
720x480 / 720x576	960/800FPS	480/400FPS	240/200FPS	480/400FPS	240/200FPS	120/100FPS
320x240	960/800FPS	960/800FPS	960/800FPS	480/400FPS	480/400FPS	480/400FPS
TV-out Support	8			4		
Max. IP Cam Connections*	32	16	8	16	8	4
GPIO	16			16		
Surveillance Software	huperVision 4000 Intelligent Surveillance Software Suite v1.55 or above					

Note: 1. *The Max. IP Cam Connection allows free IP camera connection included in the total number of video input. For example, 4816B-240V card allows up to 8 IP camera and 8 960H camera connections.

2. Vento2 532Q provides 1 slot of PCIe x1 and 1 slot of Mini-PCIe x1; Vento 516Q provides 1 slot of PCIe x1

3. Vento2 series DSS Server Board is available in a wide range of product models by customer requests. Please contact huperLab sales for more information.

4. The 16CH audio connector is not included in the standard package, and requires extra purchase.

5. TV-out cable with bracket is optional.

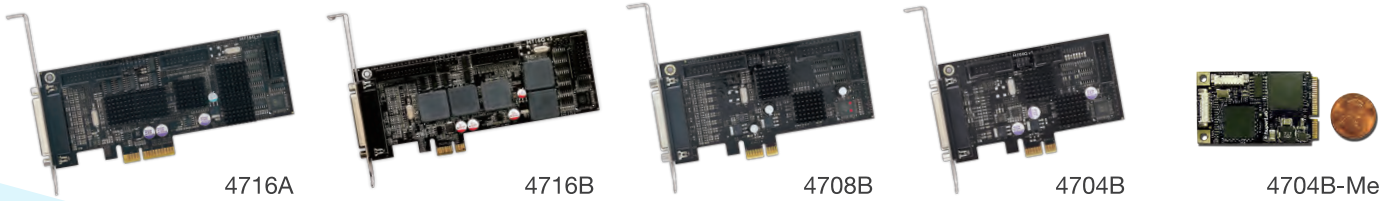
6. Some video analytics in huperVision 4000 are optional. Please refer to huperVision 4000 product specifications for details.

7. Product specifications and pictures are subject to change without prior notice.

8. Product is not warranted if the product is modified, altered or repaired without authorization by huperLab.

■ Hybrid DVR/NVR Cards

- Low Profile & Low Power
- Surge Protection Design
- Hybrid Function Supports Flexible CCTV & IP Camera Connections



Product Model	4716A-480V 4716B-480V	4716A-240V 4716B-240V	4716A-120V 4716B-120V	4716A-60 4716B-60	4708B-240V	4708B-120V	4708B-60V	4708B-30
Video Input (BNC)	16				8			
Audio Input (RCA)	16				8			
Max. IP Cam Connection*	16	8	4	4	8	4	2	2
Display Rate (NTSC / PAL)	480FPS / 400FPS @ D1				240FPS/200FPS @ D1			
Display Video Resolutio								
NTSC	720x480(HD), 720x480, 720x480 SW, 704x480(HD), 704x480, 704x480 SW, 640x480(HD), 640x480, 640x480 SW, 320x240				720x480(HD), 720x480, 720x480 SW, 704x480(HD), 704x480, 704x480 SW, 640x480(HD), 640x480, 640x480 SW, 320x240			
PAL	720x576(HD), 720x576, 720x576 SW, 704x576(HD), 704x576, 704x576 SW, 640x480(HD), 640x480, 640x480 SW, 320x240				720x576(HD), 720x576, 720x576 SW, 704x576(HD), 704x576, 704x576 SW, 640x480(HD), 640x480, 640x480 SW, 320x240			
Total Recording Rate (NTSC / PAL)								
720x480 / 720x576	480/400FPS	240/200FPS	120/100FPS	60/50FPS	240/200FPS	120/100FPS	60/50FPS	30/25FPS
720x240 / 720x288	480/400FPS	480/400FPS	240/200FPS	120/100FPS	240/200FPS	240/200FPS	120/100FPS	60/50FPS
352x240 / 352x288	480/400FPS	480/400FPS	480/400FPS	240/200FPS	240/200FPS	240/200FPS	240/200FPS	120/100FPS
320x240	480/400FPS	480/400FPS	480/400FPS	240/200FPS	240/200FPS	240/200FPS	240/200FPS	120/100FPS
TV-Out Support	4				2			
GPIO	8				8			
Video Compression Format	H.264 / HM(MPEG-4 Like) / Motion-JPEG							
Hardware Watchdog	Hardware watch dog for anti-freeze protection and system recovery							
PC Interface	A: PCIe x 4 / B: PCIe 2.0 x 1**				PCIe x 1			
System Expansion	Stacked with huperVision 4700 cards or 4900 HD-SDI cards to build up to 64CH							
Surveillance Software	huperVision 4000 v1.6a or above							
Card Dimension	6.24" x 3.12" / 16 x 8 cm				5.07" x 3.12" / 13 x 8 cm			

Product Model	4704B-120V	4704B-60V	4704B-30V	4704B-15	4704B-Me-120V	4704B-Me-60V	4704B-Me-30V	4704B-Me-15
Video Input (BNC)	4				4			
Audio Input (RCA)	4				4			
Max. IP Cam Connection*	4	2	1	1	4	2	1	1
Display Rate (NTSC / PAL)	120FPS/100FPS @ D1				120FPS/100FPS @ D1			
Display Video Resolutio								
NTSC	720x480(HD), 720x480, 720x480 SW, 704x480(HD), 704x480, 704x480 SW, 640x480(HD), 640x480, 640x480 SW, 320x240				720x480(HD), 720x480, 720x480 SW, 704x480(HD), 704x480, 704x480 SW, 640x480(HD), 640x480, 640x480 SW, 320x240			
PAL	720x576(HD), 720x576, 720x576 SW, 704x576(HD), 704x576, 704x576 SW, 640x480(HD), 640x480, 640x480 SW, 320x240				720x576(HD), 720x576, 720x576 SW, 704x576(HD), 704x576, 704x576 SW, 640x480(HD), 640x480, 640x480 SW, 320x240			
Total Recording Rate (NTSC / PAL)								
720x480 / 720x576	120/100FPS	60/50FPS	30/25FPS	16/16FPS	120/100FPS	60/50FPS	30/25FPS	16/16FPS
720x240 / 720x288	120/100FPS	120/100FPS	60/50FPS	30/25FPS	120/100FPS	120/100FPS	60/50FPS	30/25FPS
352x240 / 352x288	120/100FPS	120/100FPS	120/100FPS	60/50FPS	120/100FPS	120/100FPS	120/100FPS	60/50FPS
320x240	120/100FPS	120/100FPS	120/100FPS	60/50FPS	120/100FPS	120/100FPS	120/100FPS	60/50FPS
TV-Out Support	2				Unavailable			
GPIO	8				4			
Video Compression Format	H.264 / HM(MPEG-4 Like) / Motion-JPEG							
Hardware Watchdog	Hardware watch dog for anti-freeze protection and system recovery							
PC Interface	PCIe x 1				Mini PCIe x 1			
System Expansion	Stacked with huperVision 4700 cards or 4900 HD-SDI cards to build up to 64CH							
Surveillance Software	huperVision 4000 v1.6a or above							
Card Dimension	4.4" x 2.54" / 11.18 x 6.44 cm				1.99" x 1.17" / 5.1 x 3 cm			

- Note: 1. *The Max. IP Cam Connection allows free IP camera connection included in the total number of video input. For example, 4716A-120V card allows up to 4 IP camera and 12 analog camera connections.
 2. **The motherboard with PCIe 2.0 x1 slot is recommended for 4716B cards. For more optional IVS support features, please refer to huperLab's sales representatives.
 3. Product specifications are subject to change without notice.
 4. Display & recording rates present the maximum frame rates per card. The extra frame rates may vary across hardware environments.

■ 1080p HD-SDI Camera



Product Model	HFH -B0101	HFH -L0101	HFH -D0101
Category	Box Camera	Bullet Camera	Dome Camera
Video System	NTSC / PAL	NTSC / PAL	NTSC / PAL
Image Sensor	1/3" 2.1 MEGAPIXEL PROGRESSIVE SCAN CMOS WDR SENSOR	1/3" 2.1 MEGAPIXEL PROGRESSIVE SCAN CMOS WDR SENSOR	1/3" 2.1 MEGAPIXEL PROGRESSIVE SCAN CMOS WDR SENSOR
Resolution	1944 (H) x 1029 (V)	1944 (H) x 1029 (V)	1944 (H) x 1029 (V)
Frame Rates	1080P@30fps; 720P@60/30fps (SDI)	1080P@30fps; 720P@60/30fps (SDI)	1080P@30fps; 720P@60/30fps (SDI)
Minimum Illumination	0.05 LUX @ AGC ON / SENS-UP OFF / F1.2	0.05 LUX @ AGC ON / SENS-UP OFF / F1.2	0.05 LUX @ AGC ON / SENS-UP OFF / F1.2
Digital Wide Dynamic	Low / Middle / Highlight	Low / Middle / Highlight	Low / Middle / Highlight
Digital Video Output	HD-SDI	HD-SDI	HD-SDI
Analog Video Output	CVBS	CVBS	CVBS
Audio Streaming	N/A	N/A	N/A
Mechanical IR Cut Filter (ICR)	IR-Cut Removable filter	IR-Cut Removable filter	IR-Cut Removable filter
IR LED ; Working Distance	N/A	60pcs LED with Auto dimming, IR angle/Distance: 60°/40 meter (Approx.)	30pcs LED with Auto dimming, IR angle/Distance: 60° /40 meter (Approx.)
OSD Menu	OSD Control / by RS485 Remote Control / by Coaxial Control (Optional)	OSD Control by Coaxial Control (Optional)	OSD Control by Coaxial Control (Optional)
Digital Day & Night Mode	Auto / Color / B&W / Extern	Auto / Color / B&W / Extern	Auto / Color / B&W / Extern
Electronic Shutter	AUTO (1/30 (25) sec.) MANUAL: 1/30(25), 1/60(50), 1/120(100), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000, 1/60000	AUTO (1/30 (25) sec.) MANUAL: 1/30(25), 1/60(50), 1/120(100), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000, 1/60000	AUTO (1/30 (25) sec.) MANUAL: 1/30(25), 1/60(50), 1/120(100), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000, 1/60000
Automatic Gain Control	AUTO	AUTO	AUTO
White Balance	ATW / ATW EXT. / PRESET / MANUA	ATW / ATW EXT. / PRESET / MANUA	ATW / ATW EXT. / PRESET / MANUA
Back Light Compensation	OFF / ECLIPSE / BLC	OFF / ECLIPSE / BLC	OFF / ECLIPSE / BLC
Dynamic Noise Reduction	High / Middle / Low / Off	High / Middle / Low / Off	High / Middle / Low / Off
Sense Up	1-10 level (adjustable level settings)	1-10 level (adjustable level settings)	1-10 level (adjustable level settings)
Language	English / Japanese / Traditional Chinese / Simplified Chinese	English / Japanese / Traditional Chinese / Simplified Chinese	English / Japanese / Traditional Chinese / Simplified Chinese
I/O Connector	RS-485 (Pelco-D/P)x1	N/A	N/A
Automatic IRIS ; Connector	DC	DC	DC
Lens Mount	N/A	Built-in DC Auto IRIS Lens	Built-in DC Auto IRIS Lens
Lens, Angle of View (H)	N/A	f3~9mm or f2.8~12mm Megapixel Lens	f3~9mm or f2.8~12mm Megapixel Lens
Water Resistance	N/A	IP66	IP66
Power Supply ; Consumption	DC12V/PoC ; 200MA	DC12V/PoC ; 400MA	DC12V/PoC ; 400MA
Operation ; Storage Temp.	-20°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C
Operation ; Storage Humidity	Maximum: RH80%	Maximum: RH80%	Maximum: RH80%
Dimensions	50.5 (DIA) x 55.5 (H) mm	90 (DIA) x165 (H) mm	148 (DIA) x 102 (H) mm
Accessories Option (Page)	N/A	N/A	N/A

■ huperEyes 3D Camera



Item	Description
Mounting Height	2.4 m to 3 m
Detection Distance	4 m
Camera Installation Angle	45~90 degree
Camera Type	Analog (NTSC / PAL)
Lens	3.6 mm Color CCD Lens
Weight	600 g
Dimension (W x H x D)	16.8x5x5 cm
Supply Voltage Range	12V 1A

■ Ultra 960H Analog Camera



Product Model	H8H -B0101
Category	Box Camera
Video System	NTSC / PAL
Image Sensor	1/3" Megapixel PROGRESSIVE SCAN CMOS Sensor with High Sensitivity
Resolution	1384 (H) X 1076 (V)
Frame Rates	60/50fps (CVBS)
Minimum Illumination	0,1 Lux @ AGC on /Sens-up off/ F1.2Color to B/W
Digital Wide Dynamic	Low / Middle / Highlight
Digital Video Output	YUV422
Analog Video Output	CVBS NTSC/PAL(Selectable by OSD)
Audio Streaming	N/A
Mechanical IR Cut Filter(ICR)	Auto, External-control (Optional function)
IR LED ; Working Distance	N/A
OSD Menu	OSD Control / by RS485 Remote Control (Optional)
Digital Day & Night Mode	Auto / Color / B&W
Automatic Gain Control	YES
White Balance	OFF / ON / AREA

Product Model	H8H -B0101
Electronic Shutter	AUTO MANUAL: 1/30(25), 1/50, 1/60(50), 1/120(100), 1/180, 1/350, 1/500, 1/750, 1/1000, 1/2000, 1/4000, 1/10000
Back Light Compensation	ATW / AWB
Dynamic Noise Reduction	2D / 3D
Sense Up	4 times
Language	English / Japanese / Chinese
I/O Connector	RS-485 (coming soon)
Automatic IRIS ; Connector	AUTO
Lens Mount	C/CS
Water Resistance	N/A
Power Supply ; Consumption	DC12V/200MA
Operation ; Storage Temp.	-20°C ~ 50°C
Operation ; Storage Humidity	within 85% RH
Dimensions	50.5 (DIA) x 55.5 (H) mm
Accessories Option (Page)	N/A

■ Flame Detection Camera



Product Model	HAC-F0201			
TV formate	NTSC		PAL	
Type	D Type	L Type	D Type	L Type
Input Power	DC12V	DC12V/AC24V	DC12V	DC12V/AC24V
CCD	High-Sensitivity "Super HAD CCD II"			
DSP	Double Scan DSP			
MiniLux	0.001Lux [(F1.2, 10IRE)] (Sens on)			
Resolution	600 TV Lines (@ 6mm lens)			
Sync	Internal	External	Internal	External
Frequency	H:15.734KHz / V:59.94Hz — NTSC ; H:15.625KHz / V:50Hz — PAL			
Gamma	0.45 (setting by factory) — User define: 1.0			
WDR dB	80dB			
Smart 3D DNR	OFF / LOW / MID / HIGH / SMART			
S/N ratio	58dB			
Video Output	CVBS : 1.0Vp-p / 75 ohm			
Power consumption	Max 1.4 [W]			
Lens				
DC lens	DC / Video driver (shutter speed 1/60(1/50), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000 ~ 1/100,000)			
Manual lens	Fix F number lens 1/50 (1/60)~ 1/100'000			
SENS-UP	X2 ~ X1024			
Operator				
Communcation	RS485 (option)			
Alarm switch control	Provide NC/NO terminal, Max. load current: + 150mA (<30VDC)45~90 degree			
OSD Menu	1. EXPOSURE 2. COLOR 3. DAY&NIGHT 4. FUNCTION 5. MOTION 6. PRIVACY 7. SYNC 8. SETUP 9. EXIT			
Environment	Operation temp: 10°C ~ +55°C ; Operation humidity: Under 90% (Non-condensing)			
Mechanism				
Dimension (W x H x D)	62 (W) x 58 (H) x 93.5 (D) mm			
Weight	Max 300g			

Note: Product specifications and pictures are subject to change without prior notice.

■ NVR License Key (External /Internal)

- 64-bit OS Support
- Rich Intelligent Video Analytics
- Remote Surveillance Support

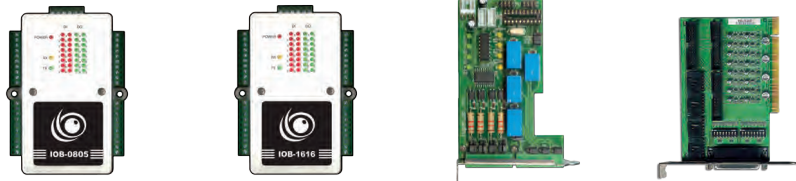


Product Model*	4004IPV-UE	4008IPV-UE	4016IPV-UE	4032IPV-UE	4064IPV-UE
Video/Audio Input(IP)	4	8	16	32	64
PC Interface	USB 2.0				
Architecture	64-bit OS				
Surveillance Software	huperVision 4000 v1.6a or above				
Design structure	External USB Key				
Dimension	2.48" x 0.59" / 6.3 x 1.5 cm				
Thickness	0.31" / 0.8 cm				

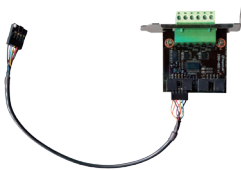
Product Model*	4004IPV-UI	4008IPV-UI	4016IPV-UI	4032IPV-UI	4064IPV-UI
Video/Audio Input(IP)	4	8	16	32	64
PC Interface	USB 2.0				
Architecture	64-bit OS				
Surveillance Software	huperVision 4000 v1.6a or above				
Design structure	Internal USB Key				
Dimension	1.38"x 0.51" / 3.5 x 1.3 cm				
Thickness	0.24" / 0.6 cm				

Note: 1. * "I" from "440xIPV-UI" stands for Internal USB Key while "E" from "440xIPV-UE" stands for External one.
 2. The IP camera models huperVision supports are continuously increasing. Please refer to huperLab's IP Camera Support List for updates.
 3. Huper Laboratories reserves the right to alter specifications without prior notices.

■ DVR Accessories



Product Model	IOB-0805	IOB-1616	IOC-0404P	LB-16
Video Consumption	5W	5W	200W	—
Relay Output	5	16	4	—
Alarm Input	8	16	4 (Optical Isolation)	—
Video Input	—	—	—	16
Video Output	—	—	—	16
Interface / IO Control	RS232 / RS485	RS232 / RS485	PCI	—



Product Model	IOB-4851
Power	No external power supply
Speed	Up to 115.2kbps for 1.2KM
TVS Protection for RS-422/RS485	±30A, IEC 61000-4-5, Surge (9/20us)
Support OS	Win98 / 2000 / XP / 2003 Server / Vista / Win7
Interface	RS-422/485
Connector	General internal USB pin head



Product Model	HFH-R0101
Features	<ul style="list-style-type: none"> • Support HD-SDI repeater function • Integrated cable equalizer for long distance video transmission without loss of quality. • Re-clocker to resynchronize the signal • Support Coaxial-link <ul style="list-style-type: none"> ◆ Able to power out by coaxial cable. ◆ Allow transmitting Ctrl signal by coaxial cable.



Huper Laboratories Co., Ltd.

10F, No. 577, Linsen N. Rd. Taipei 104, Taiwan TEL: +886-2-25994041
 FAX: +886-2-25994161 <http://www.huperlab.com> E-mail: sales@huperlab.com

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