



Innovation Changes the World



HANBANG TECHNOLOGY CO., LTD

Introduction

Hanbang Technology Co., Ltd., one of the first enterprises entering into digital video surveillance industry, has been focusing on R&D of products and technology of digital video surveillance field. While providing product and technical support, it also provides overall solution for the industrial system; it has successfully provided system implementation and service supports for several industries.

Hanbang now owns 2 R&D centers respectively in Beijing and Shenzhen. After years of technology accumulation in video image processing field, Hanbang Technology has successfully developed a number of digital surveillance product series and formed a number of digital core products such as audio and video compression cards, embedded DVRs, network video servers, analog cameras and IP cameras; The product line covers a full range of video surveillance system. It has become one of the key domestic suppliers of video compression cards and embedded digital video recorders, and the products have been supplied to many industries.

To meet market demand with better service, the company sets 6 zones including North China, Central China, East China, South China, Northeast China and Southwest China, and the sales and service network as well as nearly 30 offices cover the whole China. At the same time the company positively develops the overseas market, and its products have been sold to India, Turkey, South Africa, Poland, Russia, Brazil, UK and many other countries and regions.

Hanbang Technology is National High-tech Enterprise, vice president member of Beijing High-tech Enterprises Association, also the vice president member of China Security Industry Association. It has passed certifications of ISO-9001 quality system and ISO-1400 environmental system, and its products have passed certifications of FCC/CE, ROHS, CCC and others. Hanbang Technology with stably progressing is universally recognized both by insiders and outsiders of the industry. It is shortlisted for China security top 10 brands successively for years and shortlisted for safe city recommended brands several times; it was shortlisted for 2009 Forbes China Up&Comers and shortlisted for pilot innovative enterprises at national innovation model zhongguancun area; besides it is one of 2010 national torch program key high-tech enterprises, and its embedded DVRs win the title of National Key New Product.

Based on technology and being market-oriented, Hanbang expects to develop together with China security industry.



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5MP/3MP

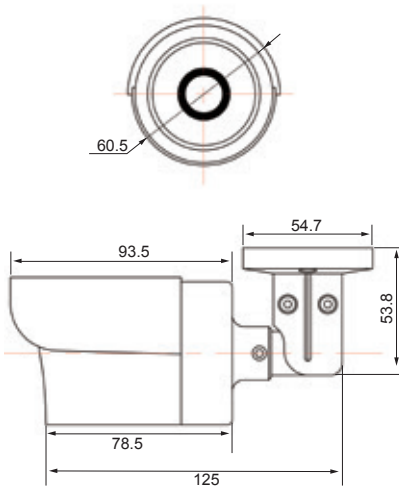
IR Mini Bullet Network Camera



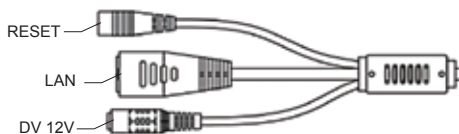
Key Features:

- ▶ Up to 5 Megapixel resolution (2592 x 1920)
- ▶ H.264 & MJPEG dual-stream encoding
- ▶ Day/Night(ICR) & 3D DNR & AWB & AGC & BLC
- ▶ Lens (2.8~12mm), IR range (5~30m)
- ▶ POE function
- ▶ IP66 rating

Dimensions:



Cable:

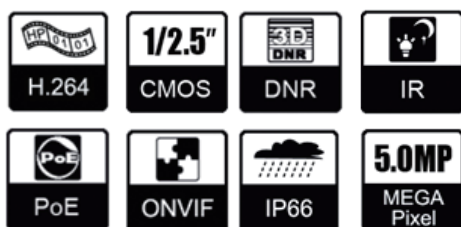


Product Parameters

Model	HW-A13TL	HW-A15TL
Media Processor	High-performance TI DaVinci DSP	High-performance TI DaVinci DSP
Image Sensor	1/2.5" progressive scan CMOS	1/2.5" progressive scan CMOS
Shuttle time	1/5s to 1/50,000s	1/5s to 1/50,000s
Lens	3.6mm/6mm optional	4mm/6mm optional
IR Range	Up to 15m	Up to 15m
Day&Night	IR cut filter with auto switch	IR cut filter with auto switch
Compression		
Video Compression	H.264/MJPEG	H.264/MJPEG
H.264 coding standard	H.264 Baseline/MainProfile/HighProfile	H.264 Baseline/MainProfile/HighProfile
Audio Compression	G.711a/G.711u/RAW_PCM	G.711a/G.711u/RAW_PCM
Audio Bit Rate	G.711a(8kbps)/G.711u(8kbps)/RAW_PCM(16kbps)	G.711a(8kbps)/G.711u(8kbps)/RAW_PCM(16kbps)
Image		
Max Image Resolution	2048(H)×1536(V)	2592(H)×1920(V)
Stream	Dual-stream	Dual-stream
Frame Rate	Main Stream : 50Hz:18fps (2048 × 1536), 25fps (1920 × 1080); 60Hz:18fps (2048 × 1536), 30fps (1920 × 1080); Sub-stream : 50Hz: 25fps(640 × 480); 60Hz: 30fps (640 × 480);	Main Stream: 50Hz: 8fps (2592 × 1920), 18fps (2048 × 1536), 25fps (1920 × 1080); 60Hz: 8fps (2532 × 1920), 18fps (2048 × 1536), 30fps (1920 × 1080); Sub-stream : 50Hz: 25fps(640 × 480); 60Hz: 30fps (640 × 480);
Network		
Alarm Trigger	Motion detection, tampering alarm, network disconnect, storage exception	Motion detection, tampering alarm, network disconnect, storage exception
Protocols	IPv4/IPv6, RTSP/RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS, FTP, DDNS, PPPoE, SMTP, SNMP, HTTPS, Onvif V2.4.1	IPv4/IPv6, RTSP/RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS, FTP, DDNS, PPPoE, SMTP, SNMP, HTTPS, Onvif V2.4.1
Onvif	V2.4.1	V2.4.1
Interface		
Network	1 RJ45 10M/100M adaptive Ethernet port	1 RJ45 10M/100M adaptive Ethernet port
Reset	A reset button (press and hold 3 seconds valid)	A reset button (press and hold 3 seconds valid)
General Specifications		
Operating Conditions	-30°C~ 60°C,humidty less than 95%	-30°C ~ 60°C,humidty less than 95%
Power Supply	DC12V±10%, PoE (802.3af)	DC12V±10%, PoE (802.3af)
Power Consumption	4.5W	4.5W
Weather proof rating	IP66	IP66
Dimensions(mm)	163.1×63.6×62.3	163.1×63.6×62.3
Weight(kg)	0.4	0.4

5MP/3MP

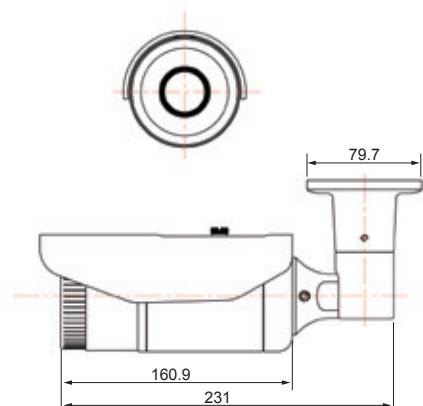
IR Bullet Network Camera



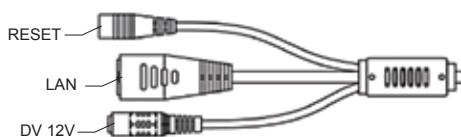
Key Features:

- ▶ Up to 5 Megapixel resolution (2592 x 1920)
- ▶ H.264 & MJPEG dual-stream encoding
- ▶ Day/Night(ICR) & 3D DNR & AWB & AGC & BLC
- ▶ Lens (2.8~12mm), IR range (5~30m)
- ▶ POE function
- ▶ IP66 rating

Dimensions:

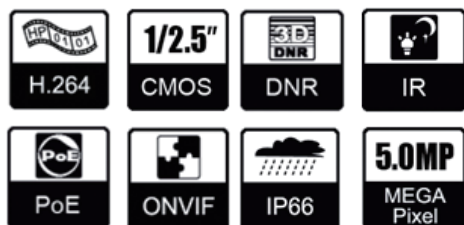


Cable:



Product Parameters

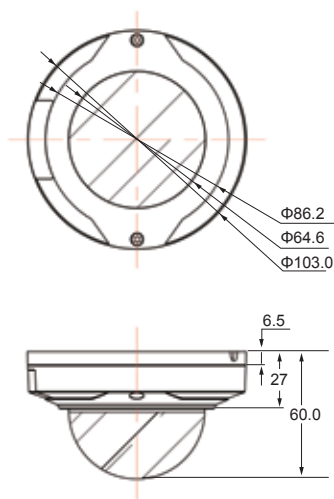
Model	HW-A13T	HW-A15T
Media Processor	High-performance TI DaVinci DSP	High-performance TI DaVinci DSP
Image Sensor	1/2.5" progressive scan CMOS	1/2.5" progressive scan CMOS
Shuttle time	1/5s to 1/50,000s	1/5s to 1/50,000s
Lens	2.8~12mm	3.3~10.5mm
IR Range	Up to 30m	Up to 30m
Day&Night	IR cut filter with auto switch	IR cut filter with auto switch
Compression		
Video Compression	H.264/MJPEG	H.264/MJPEG
H.264 coding standard	H.264 Baseline/MainProfile/HighProfile	H.264 Baseline/MainProfile/HighProfile
Audio Compression	G.711a/G.711u/RAW_PCM	G.711a/G.711u/RAW_PCM
Audio Bit Rate	G.711a(8kbps)/G.711u(8kbps)/RAW_PCM(16kbps)	G.711a(8kbps)/G.711u(8kbps)/RAW_PCM(16kbps)
Image		
Max Image Resolution	2048(H)×1536(V)	2592(H)×1920(V)
Stream	Dual-stream	Dual-stream
Frame Rate	Main Stream: 50Hz:18fps (2048 × 1536), 25fps (1920 × 1080); 60Hz:18fps (2048 × 1536), 30fps (1920 × 1080); Sub-stream : 50Hz: 25fps(640 × 480); 60Hz: 30fps (640 × 480);	Main Stream: 50Hz: 8fps (2592 × 1920), 18fps (2048 × 1536), 25fps (1920 × 1080); 60Hz: 8fps (2532 × 1920), 18fps (2048 × 1536), 30fps (1920 × 1080); Sub-stream : 50Hz: 25fps(640 × 480); 60Hz: 30fps (640 × 480);
Network		
Alarm Trigger	Motion detection, tampering alarm, network disconnect, storage exception	Motion detection, tampering alarm, network disconnect, storage exception
Protocols	IPv4/IPv6, RTSP/RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS, FTP, DDNS, PPPoE, SMTP, SNMP, HTTPS, Onvif V2.4.1	IPv4/IPv6, RTSP/RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS, FTP, DDNS, PPPoE, SMTP, SNMP, HTTPS, Onvif V2.4.1
Onvif	V2.4.1	V2.4.1
Interface		
Network	1 RJ45 10M/100M adaptive Ethernet port	1 RJ45 10M/100M adaptive Ethernet port
Reset	A reset button (press and hold 3 seconds valid)	A reset button (press and hold 3 seconds valid)
General Specifications		
Operating Conditions	-40°C ~ 60°C, humidity less than 95%	-40°C ~ 60°C, humidity less than 95%
Power Supply	DC12V±10%, PoE (802.3af)	DC12V±10%, PoE (802.3af)
Power Consumption	7W	7W
Weather proof rating	IP66	IP66
Dimensions(mm)	310×75×90	310×75×90
Weight(kg)	1.021	1.021



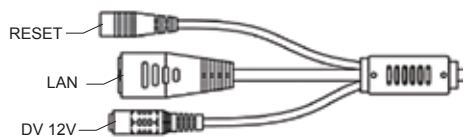
Key Features:

- ▶ Up to 5 Megapixel resolution (2592 x 1920)
- ▶ H.264 & MJPEG dual-stream encoding
- ▶ Day/Night(ICR) & 3D DNR & AWB & AGC & BLC
- ▶ Lens (4~6mm), IR range (5~15m)
- ▶ POE function
- ▶ IP66 rating

Dimensions:



Cable:

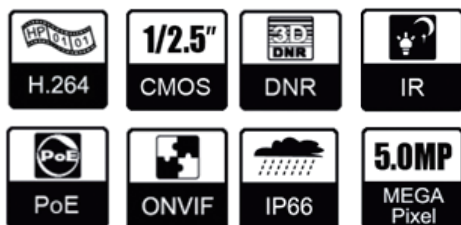


Product Parameters

Model	HW-C13TL	HW-C15TL
Media Processor	High-performance TI DaVinci DSP	High-performance TI DaVinci DSP
Image Sensor	1/2.5" progressive scan CMOS	1/2.5" progressive scan CMOS
Shuttle time	1/5s to 1/50,000s	1/5s to 1/50,000s
Lens	3.6mm	4mm/6mm optional
IR Range	Up to 15m	Up to 15m
Day&Night	IR cut filter with auto switch	IR cut filter with auto switch
Compression		
Video Compression	H.264/MJPEG	H.264/MJPEG
H.264 coding standard	H.264 Baseline/MainProfile/HighProfile	H.264 Baseline/MainProfile/HighProfile
Audio Compression	G.711a/G.711u/RAW_PCM	G.711a/G.711u/RAW_PCM
Audio Bit Rate	G.711a(8kbps)/G.711u(8kbps)/RAW_PCM(16kbps)	G.711a(8kbps)/G.711u(8kbps)/RAW_PCM(16kbps)
Image		
Max Image Resolution	2048(H)×1536(V)	2592(H)×1920(V)
Stream	Dual-stream	Dual-stream
Frame Rate	Main Stream : 50Hz: 18fps (2048 × 1536), 25fps (1920 × 1080); 60Hz: 18fps (2048 × 1536), 30fps (1920 × 1080); Sub-stream : 50Hz: 25fps(640 × 480); 60Hz: 30fps (640 × 480);	Main Stream: 50Hz: 8fps (2592 × 1920), 18fps (2048 × 1536), 25fps (1920 × 1080); 60Hz: 8fps (2532 × 1920), 18fps (2048 × 1536), 30fps (1920 × 1080); Sub-stream : 50Hz: 25fps(640 × 480); 60Hz: 30fps (640 × 480);
Network		
Alarm Trigger	Motion detection, tampering alarm, network disconnect, storage exception	Motion detection, tampering alarm, network disconnect, storage exception
Protocols	IPv4/IPv6, RTSP/RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS, FTP, DDNS, PPPoE, SMTP, SNMP, HTTPS, Onvif V2.4.1	IPv4/IPv6, RTSP/RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS, FTP, DDNS, PPPoE, SMTP, SNMP, HTTPS, Onvif V2.4.1
Onvif	V2.4.1	V2.4.1
Interface		
Network	1 RJ45 10M/100M adaptive Ethernet port	1 RJ45 10M/100M adaptive Ethernet port
Reset	A reset button (press and hold 3 seconds valid)	A reset button (press and hold 3 seconds valid)
General Specifications		
Operating Conditions	-30°C ~ 60°C, humidity less than 95%	-30°C ~ 60°C, humidity less than 95%
Power Supply	DC12V±10%, PoE (802.3af)	DC12V±10%, PoE (802.3af)
Power Consumption	4.5W	4.5W
Weather proof rating	IP66	IP66
Dimensions(mm)	103×103×60	103×103×60
Weight(kg)	0.3	0.3

5MP/3MP

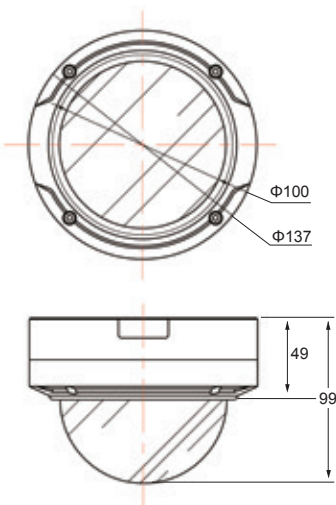
IR Dome Network Camera



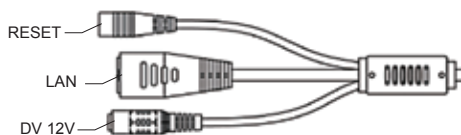
Key Features:

- ▶ Up to 5 Megapixel resolution (2592 x 1920)
- ▶ H.264 & MJPEG dual-stream encoding
- ▶ Day/Night(ICR) & 3D DNR & AWB & AGC & BLC
- ▶ Lens (3.3~10.5mm), IR range (5~20m)
- ▶ Alarm&Audio&RS485 interface&BNC
- ▶ Support SD card, up to 64G
- ▶ Vandal-Proof
- ▶ POE function
- ▶ IP66 rating

Dimensions:



Cable:



Product Parameters

Model	HW-C13T	HW-C15T
Media Processor	High-performance TI DaVinci DSP	High-performance TI DaVinci DSP
Image Sensor	1/2.5" progressive scan CMOS	1/2.5" progressive scan CMOS
Shuttle time	1/5s to 1/50,000s	1/5s to 1/50,000s
Lens	2.8~12mm	3.3~10.5mm
IR Range	Up to 20m	Up to 20m
Day&Night	IR cut filter with auto switch	IR cut filter with auto switch
Compression		
Video Compression	H.264/MJPEG	H.264/MJPEG
H.264 coding standard	H.264 Baseline/MainProfile/HighProfile	H.264 Baseline/MainProfile/HighProfile
Audio Compression	G.711a/G.711u/RAW_PCM	G.711a/G.711u/RAW_PCM
Audio Bit Rate	G.711a(8kbps)/G.711u(8kbps)/RAW_PCM(16kbps)	G.711a(8kbps)/G.711u(8kbps)/RAW_PCM(16kbps)
Image		
Max Image Resolution	2048(H)×1536(V)	2592(H)×1920(V)
Stream	Dual-stream	Dual-stream
Frame Rate	Main Stream: 50Hz:18fps (2048 × 1536), 25fps (1920 × 1080); 60Hz:18fps (2048 × 1536), 30fps (1920 × 1080); Sub-stream : 50Hz: 25fps(640 × 480); 60Hz: 30fps (640 × 480);	Main Stream: 50Hz: 8fps (2592 × 1920), 18fps (2048 × 1536), 25fps (1920 × 1080); 60Hz: 8fps (2532 × 1920), 18fps (2048 × 1536), 30fps (1920 × 1080); Sub-stream : 50Hz: 25fps(640 × 480); 60Hz: 30fps (640 × 480);
Network		
Alarm Trigger	Motion detection, tampering alarm, network disconnect, storage exception	Motion detection, tampering alarm, network disconnect, storage exception
Protocols	IPv4/IPv6, RTSP/RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS, FTP, DDNS, PPPoE, SMTP, SNMP, HTTPS, Onvif V2.4.1	IPv4/IPv6, RTSP/RTP/RTCP, TCP/UDP, HTTP, DHCP, DNS, FTP, DDNS, PPPoE, SMTP, SNMP, HTTPS, Onvif V2.4.1
Onvif	V2.4.1	V2.4.1
Interface		
SD Card	Up to 64GB	Up to 64GB
Audio In	1-channel 3.5mm audio interface MIC IN/Line IN	1-channel 3.5mm audio interface MIC IN/Line IN
Audio Out	1-channel 3.5mm audio interface (line level,600Ω)	1-channel 3.5mm audio interface (line level,600Ω)
RS485	Yes (half duplex)	Yes (half duplex)
Alarm	1 In/1 Out	1 In/1 Out
Network	1 RJ45 10M/100M adaptive Ethernet port	1 RJ45 10M/100M adaptive Ethernet port
Reset	A reset button (press and hold 3 seconds valid)	A reset button (press and hold 3 seconds valid)
General Specifications		
Operating Conditions	-40°C ~ 60°C, humidity less than 95%	-40°C ~ 60°C, humidity less than 95%
Power Supply	DC12V±10%, PoE (802.3af)	DC12V±10%, PoE (802.3af)
Power Consumption	6W	6W
Weather proof rating	IP66	IP66
Dimensions(mm)	137x137x99	137x137x99
Weight(kg)	0.8	0.8

Key Features:

- ▶ Up to 2 Megapixel resolution (1920 x 1080)
- ▶ H.264 Compression
- ▶ ICR & 3D DNR
- ▶ Support Dual stream
- ▶ POE function (optional)
- ▶ ONVIF

Product Parameters

Model	HW-A00A	HW-A00A-P	HW-A01S	HW-A01S-P	HW-A02S	HW-A02S-P
Picture						
Image Sensor	1.0 Megapixel 1/4" Progressive Scan CMOS		1.4 Megapixel 1/3" SONY Progressive Scan CMOS		2.0 Megapixel 1/2.8" SONY Progressive Scan CMOS	
Effective Pixels	1280(H)×720(V)		1280(H)×1024(V)		1920(H)×1080(V)	
Dual Stream	1280×720@30fps+768×432@30fps		1280×1024@30fps+640×368@30fps		1080P@30fps+640×368@30fps	
Maximum Frame Rate	50Hz:25fps; 60Hz:30fps		50Hz:25fps; 60Hz:30fps		50H:25fps; 60Hz:30fps	
Video Output Rate	128Kbps – 4Mbps		128Kbps – 4Mbps		32Kbps – 4Mbps	
Compression	H.264 Main Profile		H.264 Main Profile		H.264 Main Profile	
Minimal illumination	0.05Lux(Color) 0Lux(White)"		0.05Lux(Color) 0Lux(White)"		0.05Lux(Color) 0.01Lux(IR mode)	
Electronic Shutter	Auto/Manual(1/25s ~ 1/8000s)		Auto/Manual(1/25s ~ 1/8000s)		Auto/Manual(1/25s ~ 1/8000s)	
White Balance	Auto		Auto		Auto	
Gain Control	Auto/Manual(0dB ~ +36dB)		Auto/Manual(0dB ~ +36dB)		Auto/Manual(0dB ~ +36dB)	
Exposure Control	Auto		Auto		Auto	
SNR	> 50dB		> 50dB		> 50dB	
IR parameters	Array IR, 30 meters		Array IR, 30 meters		Array IR, 50 meters	
Lens Parameters	M12 interface		M12 interface		M12 interface	
	3.6/6/8mm optional		4/6/8mm optional		3.6/6/8mm optional	
Day to Night	ICR		ICR		ICR	
Network Protocol	TCP/IP, HTTP, DHCP, DNS, NTP, SNMP, DDNS, SMTP, RTP/RTSP		TCP/IP, HTTP, DHCP, DNS, NTP, SNMP, DDNS, SMTP, RTP/RTSP		TCP/IP, HTTP, DHCP, DNS, NTP, SNMP, DDNS, SMTP, RTP/RTSP	
Security Function	Password, Multi-level user management		Password, Multi-level user management		Password, Multi-level user management	
Network Interface	RJ45*1, 10M/100M Auto adaptive		RJ45*1, 10M/100M Auto adaptive		RJ45*1, 10M/100M Auto adaptive	
Working Environment	Humidity<90% (no condensation), -15°C ~ +50°C		Humidity<90% (no condensation), -15°C ~ +50°C		Humidity<90% (no condensation), -20°C ~ +60°C	
Backward Recorder	PC, PDVR, NVR, Hybrid DVR		PC, PDVR, NVR, Hybrid DVR		PC, PDVR, NVR, Hybrid DVR	
ONVIF	2.4.1		2.4.1		2.4.1	
POE	/	Y	/	Y	/	Y
Power	DC12V ±10%		DC12V ±10%		DC12V ±10%	

Key Features:

- ▶ Up to 2 Megapixel resolution (1920 x 1080)
- ▶ H.264 Compression
- ▶ ICR & 3D DNR
- ▶ Support Dual stream
- ▶ POE function (optional)
- ▶ ONVIF

Product Parameters

Model	HW-B01S	HW-C00A	HW-C01S	HW-C02S	HW-C02S-P
Picture					
Image Sensor	1.4 Megapixel 1/3" SONY Progressive Scan CMOS	1.0 Megapixel 1/4" Progressive Scan CMOS	1.4 Megapixel 1/3" SONY Progressive Scan CMOS	2.0 Megapixel 1/2.8" SONY Progressive Scan CMOS	
Effective Pixels	1280(H)×1024(V)	1280(H)×720(V)	1280(H)×1024(V)	1920(H)×1080(V)	
Dual Stream	1280×1024@30fps+640×368@30fps	1280×720@30fps+768×432@30fps	1280×1024@30fps+640×368@30fps	1080P@30fps+640×368@30fps	
Maximum Frame Rate	50Hz: 25fps; 60Hz: 30fps	50Hz:25fps; 60Hz:30fps	50Hz:25fps; 60Hz:30fps	50Hz:25fps; 60Hz:30fps	
Video Output Rate	32Kbps – 4Mbps	128Kbps – 4Mbps	128Kbps – 4Mbps	32Kbps – 4Mbps	
Compression	H.264 Main Profile	H.264 Main Profile	H.264 Main Profile	H.264 Main Profile	
Minimal illumination	0.05Lux(Color) 0 Lux (White)	0.05Lux(Color) 0 Lux (White)	0.05Lux(Color) 0 Lux (White)	0.05Lux(Color) 0.01Lux(IR mode)	
Electronic Shutter	Auto/Manual(1/25s ~ 1/8000s)	Auto/Manual(1/25s ~ 1/8000s)	Auto/Manual(1/25s ~ 1/8000s)	Auto/Manual(1/25s ~ 1/8000s)	
White Balance	Auto	Auto	Auto	Auto	
Gain Control	Auto/Manual(0dB ~ +36dB)	Auto/Manual(0dB ~ +36dB)	Auto/Manual(0dB ~ +36dB)	Auto/Manual(0dB ~ +36dB)	
Exposure Control	Auto	Auto	Auto	Auto	
SNR	> 50dB	> 50dB	> 50dB	> 50dB	
IR parameters	/	Array IR, 20 meters	Array IR, 20 meters	Array IR, 20 meters	
Lens Parameters	M12 interface,	M12 interface	M12 interface	M12 interface	
	2.8mm	2.8/3.6/6mm optional	3.6/6mm optional	3.6/6mm optional	
Day to Night	ICR	ICR	ICR	ICR	
Network Protocol	TCP/IP, HTTP, DHCP, DNS, NTP, SNMP, DDNS, SMTP, RTP/RTSP	TCP/IP, HTTP, DHCP, DNS, NTP, SNMP, DDNS, SMTP, RTP/RTSP	TCP/IP, HTTP, DHCP, DNS, NTP, SNMP, DDNS, SMTP, RTP/RTSP	TCP/IP, HTTP, DHCP, DNS, NTP, SNMP, DDNS, SMTP, RTP/RTSP	
Security Function	Password, Multi-level user management	Password, Multi-level user management	Password, Multi-level user management	Password, Multi-level user management	
Network Interface	RJ45*1, 10M/100M adaptive Ethernet port	RJ45*1, 10M/100M Auto adaptive	RJ45*1, 10M/100M Auto adaptive	RJ45*1, 10M/100M Auto adaptive	
Working Environment	Humidity <90%(no condensation), -20°C ~ +60°C	Humidity <90%(no condensation), -15°C ~ +50°C	Humidity <90%(no condensation), -15°C ~ +50°C	Humidity <90%(no condensation), -20°C ~ +60°C	
Backward Recorder	PC, PDVR, NVR, Hybrid DVR	PC, PDVR, NVR, Hybrid DVR	PC, PDVR, NVR, Hybrid DVR	PC, PDVR, NVR, Hybrid DVR	
ONVIF	2.4.1	2.4.1	2.4.1	2.4.1	
POE	/	/	/	/	Y
Power	DC12V ±10%	DC12V ±10%	DC12V ±10%	DC12V ±10%	

Key Features:

- ▶ Smart Discover & Access IP Cameras
- ▶ ONVIF 2.4.1 supported
- ▶ Up to 2MP resolution recording for each channel
- ▶ 6/9ch realtime recording and playback
- ▶ Free plug in browsers, full compatibility Windows, Linux, Mac OS
- ▶ Plug & Play with 8 independent POE network interfaces(-P models)
- ▶ SATA 3.0, HDD interface up to 6TB

Product Parameters

Product Model		HB-NVR2106E	HB-NVR2109E	HB-NVR2106E-P	HB-NVR2109E-P
Picture					
Appearance	Case	Mini 1U		1U	
Video Coding Parameters	Compression	H.264		H.264	
	Live View / Playback Resolution	1080P/UXGA/720P/D1		1080P/UXGA/720P/D1	
	Playback Channel	6 Realtime	9 Realtime	6 Realtime	9 Realtime
	Recording Resolution	6*2MP	9*2MP	6*2MP	9*2MP
	Network video input bandwidth	20Mbps	40Mbps	25Mbps	50Mbps
Video/Audio Input	IP Video Input	6	9	6	9
	IPAudio Input	6	9	6	9
	Audio Input	N/A		1*RCA	
Video/Audio Output	Audio Output	N/A		1*RCA	
	Live View Channel	6	9	6	9
	VGA(DB15)	1		1	
	HDMI	1		1	
Hard Disk	SATA	1		1	
	eSATA	N/A		N/A	
	Capacity	Up to 6TB		Up to 6TB	
External Interface	USB	2		2	
	Network Interface	1 RJ45 100 Mbps		1 RJ45 100 Mbps	
	POE(Output Power)	N/A		Support(≤ 40W)	Support (≤ 80W)
	Network Interface with POE Function	N/A		4*100M (IEEE802.3 AF/AT)	8*100M (IEEE802.3 AF/AT)
	Alarm Input	N/A		2	
	Alarm Output	N/A		1	
	RS485	N/A		N/A	
	12V Alarm Output	N/A		1	
Others	Power Supply	12V DC		48V / 1.25A, Included POE Power	48V / 2A, Included POE Power
	Working temperature	-20 °C ~ +50 °C		-20 °C ~ +50 °C	
	Working humidity	10% ~ 90%		10% ~ 90%	
	Dimensions(W×D×H)	254 x 180.3 x 49.5 mm		324 x 256.8 x 53.7 mm	
	Weight	0.69 ≤ Kg (without hard disk)		1.5 ≤ Kg (without hard disk)	

Key Features:

- ▶ Smart Discover & Access IP Cameras
- ▶ ONVIF 2.4.1 supported
- ▶ Up to 5MP resolution recording for each channel
- ▶ 4/8/16/24/32ch realtime recording and playback
- ▶ Free plug in browsers, full compatibility Windows, Linux, Mac OS
- ▶ Up to 200Mb network incoming bandwidth
- ▶ Plug & Play with 8 independent POE network interfaces(-P models)
- ▶ SATA 3.0, HDD interface up to 6TB each, 1 USB 3.0

Product Parameters

Product Model		HB-NVR2208E	HB-NVR2216E	HB-NVR2224E	HB-NVR2232E	HB-NVR2208E-P	HB-NVR2216E-P	HB-NVR2224E-P	HB-NVR2232E-P
Picture									
Appearance	Case	Metal 1.5U				Metal 1.5U			
Video Coding Parameters	Compression	H.264				H.264			
	Live View / Playback Resolution	5MP/3MP/1080P/UXGA/720P/D1				5MP/3MP/1080P/UXGA/720P/D1			
	Playback Channel	8 Realtime	16 Realtime	24 Realtime	32 Realtime	8 Realtime	16 Realtime	24 Realtime	32 Realtime
	Recording Resolution	8*5MP	16*5MP	24*5MP	32*5MP	8*5MP	16*5MP	24*5MP	32*5MP
	Network video input bandwidth	64Mbps	128Mbps	200Mbps	200Mbps	64Mbps	128Mbps	200Mbps	200Mbps
Video/Audio Input	IP Video Input	8	16	24	32	8	16	24	32
	IPAudio Input	8	16	24	32	8	16	24	32
	Audio Input	N/A				1*RCA			
Video/Audio Output	Audio Output	N/A				1*RCA			
	Live View Channel	8	16	24	32	8	16	24	32
	VGA(DB15)	1				1			
	HDMI	1				1			
Hard Disk	SATA	2				2			
	eSATA	N/A				1			
	Capacity	Up to 6TB for each HDD				Up to 6TB for each HDD			
External Interface	USB	2 (Front USB 2.0 and Rear USB 3.0)				2 (Front USB 2.0 and Rear USB 3.0)			
	Network Interface	1 RJ45 1000 Mbps				1 RJ45 1000 Mbps			
	POE(Output Power)	N/A				Support (≤ 120W)			
	Network Interface with POE Function	N/A				8*100M (IEEE802.3 AF/AT)			
	Alarm Input	N/A				2			
	Alarm Output	N/A				1			
	RS485	N/A				1			
	12V Alarm Output	N/A				1			
Others	Power Supply	12V DC				220V (100~240VAC, 47~63Hz), Included POE Power			
	Working temperature	-20 °C ~ +50 °C				-20 °C ~ +50 °C			
	Working humidity	10% ~ 90%				10% ~ 90%			
	Dimensions(W×D×H)	340 × 217.6 × 77 mm				340 × 217.6 × 77 mm			
	Weight	2.45 ≤ Kg (without hard disk)				2.45 ≤ Kg (without hard disk)			

Key Features:

- ▶ Smart Discover & Access IP Cameras
- ▶ ONVIF 2.4.1 supported
- ▶ Up to 5MP resolution recording for each channel
- ▶ 4/8/16/24/32ch realtime recording and playback
- ▶ Free plug in browsers, full compatibility Windows, Linux, Mac OS
- ▶ Up to 200Mb network incoming bandwidth
- ▶ Plug & Play with 8 independent POE network interfaces(-P models)
- ▶ SATA 3.0, HDD interface up to 6TB each, 1 USB 3.0

Product Parameters

Product Model		HB-NVR2416E	HB-NVR2424E	HB-NVR2432E	HB-NVR2416E-P	HB-NVR2424E-P	HB-NVR2432E-P
Picture							
Appearance	Case	1.5U					
Video Coding Parameters	Compression	H.264					
	Live View / Playback Resolution	5MP/3MP/1080P/UXGA/720P/D1					
	Playback Channel	16 Realtime	24 Realtime	32 Realtime	16 Realtime	24 Realtime	32 Realtime
	Recording Resolution	16*5MP	24*5MP	32*5MP	16*5MP	24*5MP	32*5MP
	Network video input bandwidth	100Mbps	200Mbps	200Mbps	100Mbps	200Mbps	200Mbps
Video/Audio Input	IP Video Input	16	24	32	16	24	32
	IPAudio Input	16	24	32	16	24	32
	Audio Input	N/A			1*RCA		
Video/Audio Output	Audio Output	N/A			1*RCA		
	Live View Channel	16	24	32	16	24	32
	VGA(DB15)	1			1		
	HDMI	1			1		
Hard Disk	SATA	4			4		
	eSATA	1			1		
	Capacity	Up to 6TB for each HDD			Up to 6TB for each HDD		
External Interface	USB	2 (Front USB 2.0 and Rear USB 3.0)			2 (Front USB 2.0 and Rear USB 3.0)		
	Network Interface	1 RJ45 1000 Mbps			1 RJ45 1000 Mbps		
	POE(Output Power)	N/A			Support (≤ 120W)		
	Network Interface with POE Function	N/A			8*100M (IEEE802.3 AF/AT)		
	Alarm Input	4			4		
	Alarm Output	2			2		
	RS485	1			1		
	12V Alarm Output	1			1		
Others	Power Supply	12V DC			220V (100~240VAC, 47~63Hz), Included POE Power		
	Working temperature	-20 °C ~ +50 °C			-20 °C ~ +50 °C		
	Working humidity	10%~ 90%			10%~ 90%		
	Dimensions(W×D×H)	440 × 290 × 64.4 mm			440 × 290 × 64.4 mm		
	Weight	2.9 ≤ Kg (without hard disk)			3.65 ≤ Kg (without hard disk)		

Key Features:

- ▶ Support 720p HD, 960H
- ▶ Full channel record with parameter adjustable
- ▶ Support Intelligence playback and instant full channel playback
- ▶ Support Digital Zoom on preview and playback
- ▶ Support preview/playback/download remotely by CMS, Webpage (Chrome, IE,firefox, etc.) or mobile apps

Product Parameters

Product Model		HB-DVR5104-BH	HB-DVR5108-BH	HB-DVR5116-BH	HB-DVR5216-B
Picture					
	Case	Mini 1U	Mini 1U	1U	1.5U
Video Coding Parameters	Compression	H.264	H.264	H.264	H.264
	Resolution	4*720P@25fps or 4*960H@25fps	8*720P@15fps(Manual) or 6*720@25fps(Auto, Default) or 8*960H@25fps	16*720P@15fps(Manual) or 12*720@25fps(Auto, Default) or 16*960H@25fps	16*720P@15fps(Manual) or 12*720@25fps(Auto, Default) or 16*960H@25fps
	Playback	4*720P@25fps or 4*960H@25fps	8*720P@15fps or 6*720@25fps(Auto, Default) or 8*960H@25fps	16*720P@15fps or 12*720@25fps(Auto, Default) or 16*960H@25fps	16*720P@15fps or 12*720@25fps(Auto, Default) or 16*960H@25fps
Video& Audio Input	Analog HD (AHD)	Support (Two CH in one Group, same 720P or 960H)	Support (Two CH in one Group, same 720P or 960H)	Support (Two CH in one Group, same 720P or 960H)	Support (Two CH in one Group, same 720P or 960H)
	Video Input	4	8	16	16
	Audio Input	2*RCA	2*RCA	2*RCA	2*RCA
Video& Audio Output	Audio Output	1*RCA	1*RCA	1*RCA	1*RCA
	VGA(DB15)	1	1	1	1
	HDMI	1	1	1	1
Hard Drive	Max.storage each HDD	6TB	6TB	6TB	6TB
	Built-in SATA HD	1	1	1	2
Extrenal Interface	Intercom Input	0 (share with audio input line)	0 (share with audio input line)	0 (share with audio input line)	0 (share with audio input line)
	Intercom Output	0 (share with audio input line)	0 (share with audio input line)	0 (share with audio input line)	0 (share with audio input line)
	USB	2 (Rear)	2 (Rear)	2 (Rear)	2 (1 Rear and 1 Front)
	USB External Disc Burner	Support	Support	Support	Support
	RJ45	100M	100M	1000M	1000M
	Alarm Input	4	4	4	4
	Alarm Output	1	1	1	1
	RS485	1 (half-duplex)	1 (half-duplex)	1 (half-duplex)	1 (half-duplex)
General	+12V Output (Alarm used)	1	1	1	1
	Power Supply	DC 12V 24W	DC 12V 24W	DC 12V 24W	DC 12V 40W
	Mouse	√	√	√	√
	Remote Controller	Optional	Optional	Optional	Optional

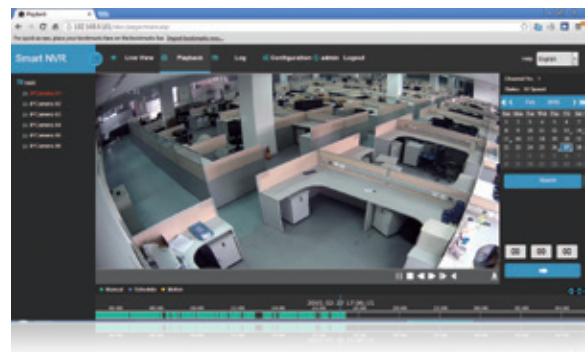
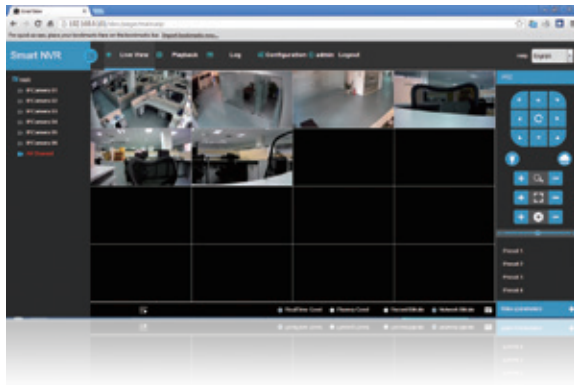
Smart Phone Applications

1. Android/IOS
2. 16/8CH Preview & 1CH Playback
3. VOD



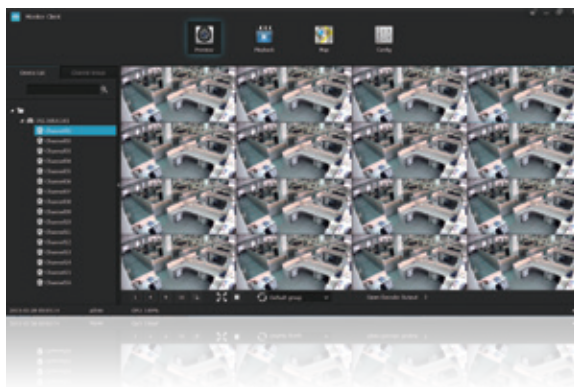
Browser

1. IE/Safari/Firefox/Chrome
2. Max. 42CH Display
3. Fully Configuration



CMS

1. Unlimited CH Manage
2. Central Storage & Management
3. Device Status Notifications



Transportation Industry



Capital Airport



Beijing West Railway Station

Public Place



Zimbabwe gymnasium

Financial Centre



China ABC Bank

Education Industry



Beijing University



Sea-crossing Bridge



Argentina Bank



Yildiz Soray Istanbul Museum

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