

Honeywell Total IP Security Solution



HUS – The Smart Choice of IP Security Management

Honeywell

Honeywell Universal Surveillance

The Smart Platform for IP Security Solution

Powerful. Flexible. Efficient. Honeywell Universal Surveillance (HUS) is Honeywell's latest innovation on IP-based security system featuring numerous user-friendly functions and easy-to-operate design. HUS is not only for video surveillance, it can also integrate with access control systems, such as Pro-Watch® and WIN-PAK, and intrusion alarm panels VISTA, offering a one-stop IP surveillance solution to protect your valuable assets all year round.



why HUS?

HUS has Everything for Your System

Let it be front-end equipment such as 3M, 2M, 1080P, 720P IP cameras, or back-end devices such as central management server, NVR, DVR, IP SAN storage, encoder and decoder, Honeywell Security has the right solutions that best fit your requirements.

HUS Improves Operation & Management Efficiency

Video Surveillance, Access Control, Intrusion Alarm can all be integrated into HUS. You manage everything in one single system instead of having everything separately. This saves you operation time and management costs.

HUS Gives You Full Control

With great flexibility and easy-to-operate design, you can design plan rules, emergency commands, event notifications etc according to your needs.

HUS Saves Your Investment Costs

You can enjoy full IP surveillance from HUS, but it can also build a hybrid solution (ie IP + Analog) that utilize your initial investments on analog cameras.

HUS Fits Every Industry

Whether it is a large application – banks, commercial buildings, railways, airports, stadiums, government facilities, city surveillance; or mid-scale project – retail chains, shopping centres, schools, offices, HUS is the ideal solution for advanced IP security installations.

You can choose the following system for your applications:

{ HUS XPRO
HUS XACT }

for mid to large-scale multi-site applications with over 128 video channels.

for mid-scale applications. Available in 32/64/128 video channels.

HUS - the Smart Choice of IP Security Management

why IP?

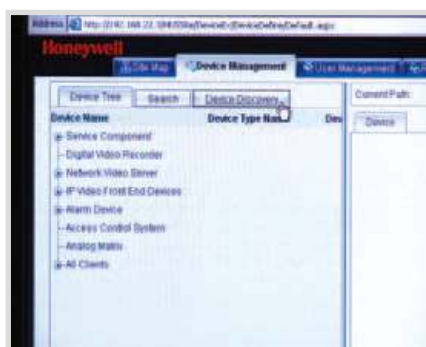
- Opens a world of possibilities like the ability to view high-quality, full-frame-rate video
- Provides cost efficiencies and the convenience of leveraging existing network infrastructure
- Maximizes your existing investment in analog components by integrating them with digital technologies
- Installs quickly and easily with auto-discovery tools
- Offers system scalability – add one camera at a time or hundreds; use a single client workstation/server configuration or expand to multiple client workstations and servers

Beginning a migration to IP-based systems is a necessary way to future-proof an organization and prepare for the day when IP will be the dominant architecture of video surveillance systems.

Don't be left behind!



Surrounding View



Device Discovery



Alternative View



H.264



E-map



Rules Engine



Instant Playback

High Interoperability - HUS and 3rd Party Platform Integration

HUS is flexible and user-friendly. By supporting ONVIF, BACnet protocols, and providing HUS SDK (software development kit) and HUS COM (communication protocol) for ASCII, HUS is capable of integrating into 3rd party systems with high efficiency.

ONVIF

For 3rd Party IP Cameras Integration

Honeywell plays an important role in ONVIF, a non-profit organization driving the development of IP-based security products and solutions via global standard open interface. Honeywell Security Group is a Full Member of ONVIF, as well as a member of ONVIF Communication Committee. All HUS front-end and back-end devices are ONVIF compatible, providing high interoperability of IP security products between 3rd party brands and HUS.



BACnet

For 3rd Party IBMS / Honeywell EBI Integration

BACnet is a data communication protocol for building automation and control networks which is a common protocol in Asia Pacific, Europe and Americas. By applying the HUS BACnet gateway HUS-BN1000, HUS will be able to communicate directly with integrated building management systems (IBMS) and Honeywell Enterprise Building Integrator (EBI) for highly efficient security and IBMS management.



Honeywell Experion® Process Knowledge System Integration

By Honeywell Process Solutions

The HUS is compatible with the Honeywell Experion Process Knowledge System (PKS) version 4.1 or later. PKS is a distributed control system (DCS) that has been widely used in industrial sector such as bio fuels, marine, chemical, oil and gas, power plants and so on. HUS and PKS integration brings additional convenience to PKS users that they can now:

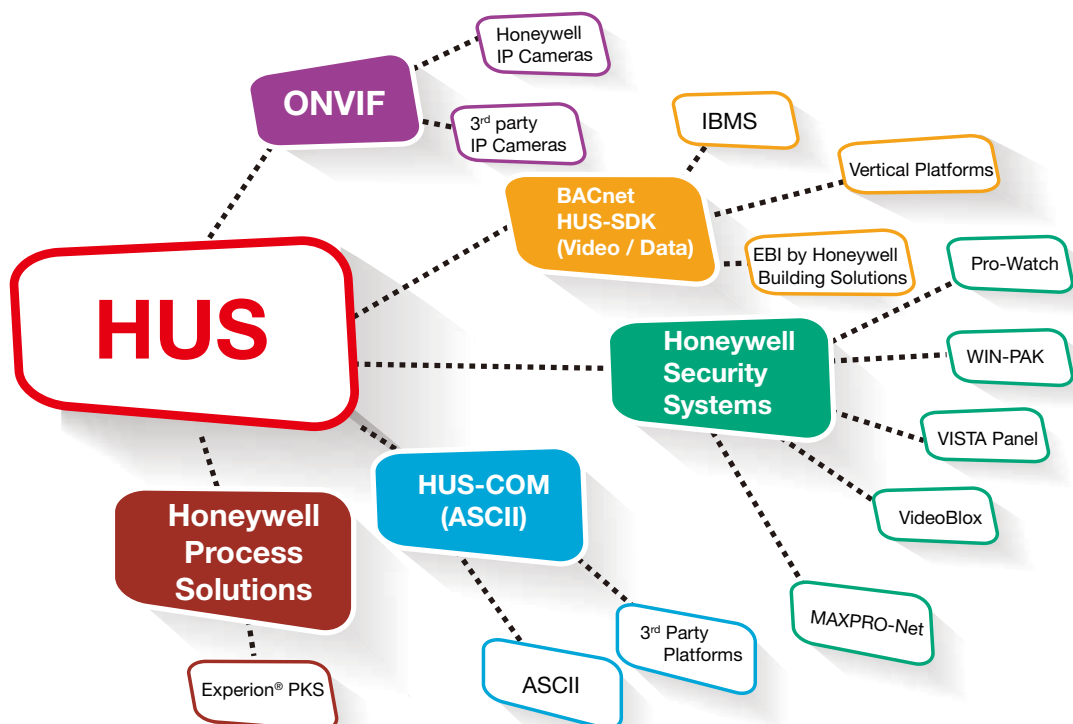
- View HUS live videos at PKS
- Control PTZ of HUS cameras at PKS
- Receive HUS alarm events at PKS



BACnet allows communication for different applications, including security systems. By applying HUS BACnet gateway, IBMS and EBI will be able to:

- receive alarms and their information from HUS
- set alarm filter to tailor the type of alarms to receive
- appoint devices that receive alarms and define device alarm settings
- send predefined device control commands to HUS (e.g. PTZ control)

HUS – a Powerful System with Infinite Potential



IP is the Key Driver

The following 6 components are the key drivers for a powerful, competent and dynamic HUS XPRO IP Surveillance Solution:

(1) Full range of front-end and back-end IP devices

- High definition IP cameras (1080P, 720P)
- Megapixel IP cameras (1MP, 2MP, 3MP)
- Network decoding for digital display screen
- High-end integration platform
- NVR / IP SAN video storage
- Intelligent video analytics
- Standard IP camera (D1)
- Network design support
- Video streamers
- DVRs



(2) Optimized network design and technical services

Through rigorous testing and validation, HUS sets a new standard on IP Surveillance to deliver the most stable, reliable and efficient performance to commercial and industrial applications.



(3) Flexible storage options

Storage is the most critical factor in IP surveillance. From front-end video server local storage to centralized storage, Honeywell provides a series of flexible storage options suited to various requirements. HUS supports the following mainstream storage structures:

- IP SAN network storage
- NAS network connection
- NVR storage



(4) Easy-to-use monitoring display solution

Users can monitor, store and manage the HUS via server. HUS is also capable of delivering high definition / standard definition images to video wall via HD digital decoder. The network keyboard is designed with user-friendly features for smooth, efficient and time-saving operation of the entire system.



(5) Unified and integrated security platform

HUS seamlessly integrates video surveillance system with Honeywell Pro-Watch® and WIN-PAK® access control, VISTA intrusion alarm and other solutions, to develop a comprehensive solution that enables and effective and efficient emergency response.



(6) Advanced intelligent video analysis

Want a more proactive surveillance approach? Integrate Honeywell Video Analytics in HUS and the system will stay actively alert. Rich set of detectable events and behaviors enhance the performance of HUS in terms of event prediction, analysis and triggering.



HUS XPRO

A One-Stop Smart IP Security Solution

HUS XPRO is an end-to-end high definition IP surveillance solution that has been developed through rigorous testing and validation to deliver exceptional benefits to users in terms of security system performance, flexibility, compatibility and stability.

From front-end / back-end devices to sales and technical services, Honeywell strives to deliver a complete and easy-to-operate IP security solution for different verticals to address their high standard requirements for advanced surveillance.

Full IP Surveillance Solution

As an industry pioneer, Honeywell offers everything you need to develop a powerful full IP surveillance solution. Honeywell HUS IP surveillance portfolio includes VMS server, NVR, IP SAN, Decoder and an extensive range of IP megapixel / high definition cameras. By combining all these components, Honeywell HUS XPRO brings a high performance and reliable IP security platform beyond your expectation.

Hybrid (Analog + IP) Surveillance Solution

Yes You Can! By integrating the latest IP technologies with traditional analog components, you can save installation time, better control operational costs and maximize initial investments in surveillance equipments. Simply connect your analog cameras in HUS encoders or DVR, and you can enjoy the power of HUS XPRO.

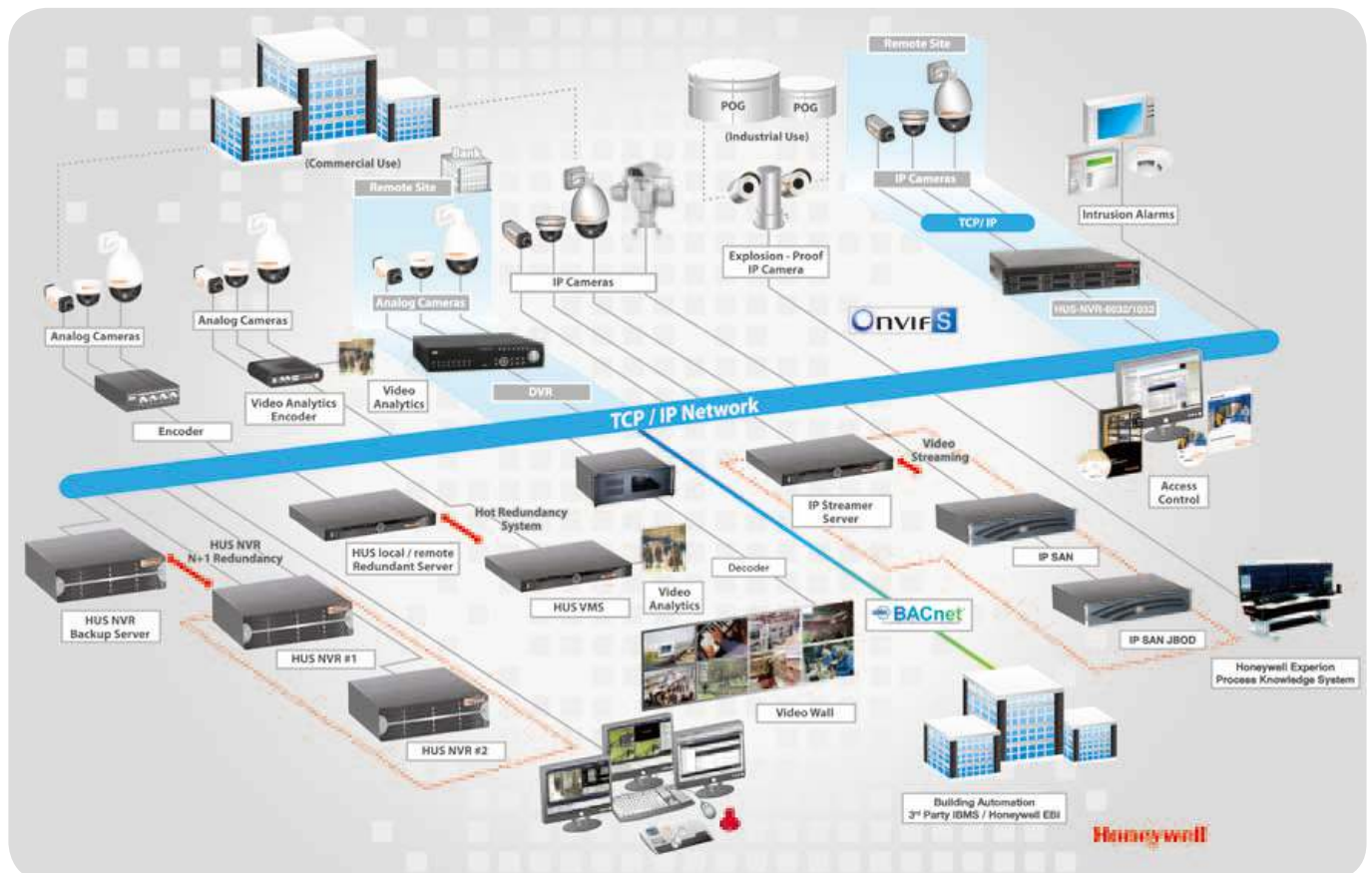
Integration with Access Control and Intrusion Alarms

HUS XPRO is not just for video surveillance – it can also integrate with Pro-Watch® / WIN-PAK access control system as well as VISTA burglary alarm panels. You can control everything in ONE single system – saves time, saves operational costs.

Intelligent Video Analytics

For more advanced security, Honeywell's video analytics software Active Alert and crowd analytics can be applied in the HUS XPRO with either the HUS-NVR-7200A-E, HUS-NVR-5100A-E or HUS-IPS-STM-E or standalone PC server to detect and track different self-defined behaviors. For hybrid solution users, the video analytics encoder is also an option to perform real-time tracking and share videos with back-end devices.

System Diagram



HUS XPRO

High Definition IP Solution for Large-Scale Multi-Site Applications

HUS XPRO IP Security Solution Product Family

Central Management

HUS-XPRO Management Server

Central Management Server

Database Management/Event & Control/
Video Streaming Server/Rules Engine
One server supports up to 300 channels IP video management.
**Model: HUS-XPRO-MAS-E, HUS-XPRO-SLA-E,
HUS-XPRO-RPK-E, HUS-XPRO-RDB-E**



Access Control

Pro-Watch®
WIN-PAK



Intrusion

Vista Panel with
IPM Module



Network Video Recording

HUS-NVR Storage Unit
HUS-NVR Extension Chassis
HUS IP SAN

Network Video Recording System

Supports 128 channels recording @ D1 resolution at real time;
40 channels video playback/relay @ D1 resolution at real time;
Model: HUS-NVR-5100A-E
Supports 256 channels recording @ D1 resolution at real time;
40 channels video playback/relay @ D1 resolution at real time;
Model: HUS-NVR-7200A-E



DVR/NVR/Encoder/Decoder

HUS-NVR-1032/6032
HD-NVR-106/116 Boxed NVR
HD-DVR-7016
HUS / HVAE Network Video Encoder
HUS-D Decoder

32-ch NVR

4ch 3M, 8-ch 1080P, 16-ch 720P, 32-ch D1
Hardware RAID 0, 1, 5, 6, 10
H.264, MJPEG
Hot swap, 32TB, 2 e-SATA 64TB
Model: HUS-NVR-6032



16-ch DVR

H.264 dual-stream
16 analog inputs
8 HDDs, max 24TB
HDMI / VGA / TV / BNC
Model: HD-DVR-7016



Video Encoder

1 or 4-ch HDMI output
H.264 / MPEG-4
Model: HUS-D1X / HUS-D4X



IP Camera

Megapixel IP Camera
720P / 1080P IP Camera
D1 IP Camera
IP PTZ Speed Dome

2M / 3M

H.264, include box, vandalproof IR dome,
IR dome



720P / 1080P

H.264, 60 fps, 25/30 fps, fixed dome,
vandalproof IR dome, IR dome, PTZ



D1

H.264, include box, fixed dome,
vandalproof dome, PTZ



HUS-XPRO Servers

Central IP Video Management Server



An all-inclusive enterprise IP solution management server for HUS XPRO. Key functions include:

Superb Integration Capability

- ONVIF 1.0.1, 1.0.2, Profile S compliant
- Support BACnet protocol to communicate with integrated building management solutions (IBMS) and Honeywell Enterprise Buildings Integrator (EBI)
- Support Honeywell Experion PKS to view live video
- HUS-SDK to communicate with 3rd party systems to send / receive video and alarm singles
- HUS-COM to communicate with 3rd party subsystems to send / receive alarm singles
- Support GB/T28181-2011 (for China only)
- Integration with HUS-NVR-1032
- Integration with Pro-Watch, WIN-PAK access management system providing superior access control with alarm / event monitoring
- Integration with VISTA series intrusion system providing proactive alarm management
- Integration with analog MAXPRO-Net and VideoBloX matrix
- Integration with MX8000 intrusion system

Reliable and Flexible

- High Reliability by Hot Redundancy and Standby
- Support Video Analytics
- Various storage options available - NVR, IP SAN, DVR and client storage. Minimize video loss with Network Failure Recovery function

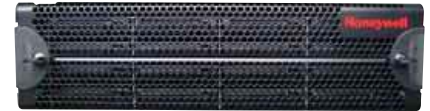
Well-Designed Features

- Multi-layer platform with high interoperability for easy communications and operations
- Live Video Display with Different Layouts
- Surrounding / Alternative View and Digital Zoom In/Out
- Recording and Playback on Customization
- Instant Playback from live view window
- Alarm / Event / Status / Log Management
- Digital Virtual Matrix (thousands x thousands)
- E-map support with GIS / AutoCAD / Common Image
- Rules Engine Driving for Emergency Processing
- HUS-D4-E-Pro supports playback, including NVR, IP SAN, DVR recording playback

Product Model	HUS-XPRO-MAS-E	HUS-XPRO-SLA-E	HUS-XPRO-RPK-E	HUS-XPRO-RDB-E
	HUS Central Management Server	HUS Central Management Slave Server	HUS Central Management Local Site Redundancy Package Kit	HUS Central Management Remote Sites Redundancy Database Package
System Capacity				
Server	Dell PowerEdge Server x 1		Dell PowerEdge Server x 2	Dell PowerEdge Server x 2
Processor	Quad-Core Intel E5-2403 Series Processors			
Cache	10MB			
Memory	8 GB ,1333 MHz			
Network	2 Gigabit Ethernet RJ-45 Ports			Two disaster site established between private network and bandwidth more than 10Mbps
Hard Disk	3.5" SATA (7200 RPM): 500GB		Storage disk array with 2 SAS RAID controller	3.5" SATA (7200 RPM): 250GB
Drive Bays	Up to 4 x 3.5" hot-swappable SAS or SATA drives		Storage disk array with 2 SAS RAID controller	3.5" SATA (7200 RPM): 250GB
Operating System	Windows Server 2008 Standard 64 bit		Windows Server 2008 Enterprise 64 bit	Windows Server 2008 Standard 64 bit
Database	SQL Server 2008 Standard	n/a	SQL Server 2008 Standard	SQL Server 2008 Standard
Operation				
W x H x D (mm)	434 x42.4 x 610 (1U)		2 servers (2U) + 1 disk array (3U)	2 servers (2U)
Weight	15kg		54kg (total)	30kg (total)
Power Input	100 - 240VAC, 50/60Hz			
Power Consumption	350W		1200W (total)	700W (total of 2 units)
Operating Temperature	10°C to 35°C			
Storage Temperature	-40°C to 65°C			
Relative Humidity	10% to 85% , non-condensing			
Regulatory				
Certification	CCC, CE, FCC, UL			

HUS-NVR-7200A-E

256-Channel Integrated Network Video Recorder



A powerful storage system for HUS XPRO. 700Mbps data throughput. Supports full frame rate, D1 resolution of recording with up to 256 channels simultaneously, and playback/relay at the same time to up to 40 video streams. Storage expansion with 16 bay hard disk.

Key features include

- Video recording
- Video storage
- Streaming relay
- Streaming playback
- Multi front end solution
- Alarm triggered recording
- Video record search
- Hot swappable hard disk
- Easy maintenance, high availability

Product	HUS-NVR-7200A-E IP video storage system
System Capacity	
System Throughput Capacity	Support 700 Mbps bandwidth throughput capacity. Max. 256 channels real-time recording. Total 40 channels for history video playback and streaming video forwarding (D1 resolution / full real time / 2 Mbps)
Processor	Intel quad-core processor 3.1 GHz, 8MB Cache
Memory	8 GB
Hard Disk	Enterprise class hard disk 1TB, 3.5" 7200 RPM, SATA, 32 MB Cache
Network	2 x 1Gbps Ethernet RJ-45 Ports
RAID controller	Enterprise LSI MegaRAID SAS 9260 (6Gb/s per port)
Operating System	Windows Server 2008 64bit
IOPS	140,000 (Input/Outputs Per Second)
Condition Monitoring	Fault/error/overload and alarm (including disk / RAID / power / fan / temperature / IO performance)
Hardware Redundancy	Power supply and fan module redundancy (2 x PFC)

Product	HUS-NVR-7200A-E IP video storage system
Video Storage	
Video Input	IP mode access
Video Compression	H.264, MPEG4, MPEG2, MJPEG
Video Resolution	1080P / 720P / Megapixel / D1 / 4CIF / VGA / CIF
Frame Rate	At most 25 fps (PAL) / 30 fps (NTSC). Support set variable code flow storage
Recording Mode	Time and events, alarm, manual trigger, continuous video
Recording Inquires	Date, equipment name and channel numbers, alarm and event type, video trigger mode
Audio	G.711
Storage	
Hard Disk	HUS-HDD-4TB, HUS-HDD-3TB, HUS-HDD-2TB, HUS-HDD-1TB
Slot number	Support 16 x 3.5" enterprise hard disk (SAS/SATA)
Storage Extension	One system can install maximum 64 x 3.5" enterprise hard disks (SAS/SATA), and support 3 units of video storage expansion array (HUS-NVR-EC16-E)
Hard Disk Hot Plug	Support
Expansion Interface	Mini SAS (6Gb/s)
RAID Level	RAID 0, 1, 5, 6, 10, 50, 60
RAID Management	Based on the Web browser mode, GUI configuration and management
RAID Performance	RAID banding change Settings and RAID flash SAS/SATA hard disk mixed management mode Roll online flash and disk hot backup mechanism Disk medium detection and hard disk bad area isolation Data Snapshot copy function: Snapshot Different alarm information means: SNMP/Email
General	
Dimensions	433 (W) x 132.5 (H) x 660 (D)mm (3U)
Weight	20kg±5% (exclude hard disk)
Power Input	100 - 240VAC, 50/60Hz
Power Consumption	2 x 550W
Operating Temperature	10°C to 35°C
Storage Temperature	-40°C to 65°C
Relative Humidity	8% to 90% , non-condensing
Certification	CCC, CE, FCC



HUS-NVR-5100A-E

128-Channel Integrated Network Video Recorder



A powerful storage system for HUS XPRO. 340Mbps data throughput. Supports full frame rate, D1 resolution of recording with up to 128 channels simultaneously, and playback/relay at the same time to up to 40 video streams. Storage expansion with 16 bay harddisk.

Key features include

- Video recording
- Video storage
- Streaming relay
- Streaming playback
- Multi front end solution
- Alarm triggered recording
- Video record search
- Hot swappable hard disk
- Easy maintenance, high availability

HUS-NVR-5100A-E

System Capacity

System throughput capacity	Support 340 Mbps bandwidth throughput capacity. Max. 128 channels real-time recording. Total 40 channels for history video playback and streaming video forwarding (D1 resolution / full real time / 2 Mbps)
Processor	Intel dual-core processor 3.2GHz 3M Cache
Memory	4 GB
Hard Disk	Enterprise LSI MegaRAID SAS 9260 (6Gb/s per port)
Network	2 x 1Gbps Ethernet RJ-45 Ports
RAID controller	LSI MegaRAID SAS 9260 (6Gb/s per port)
Operating System	Windows Server 2008 Standard 64bit
IOPS	140,000 (Input/Outputs Per Second)
Condition Monitoring	Fault/error/overload and alarm (including disk/RAID/power/fan/temperature/IO performance)
Hardware Redundancy	Power supply and fan module redundancy (2 x PFC)
Video Storage	
Video Input	IP mode access
Video Compression	H.264, MPEG4, MPEG2, MJPEG
Video Resolution	1080P / 720P / Megapixel / D1 / 4CIF / VGA / CIF

HUS-NVR-5100A-E

Frame Rate	At most 25 fps (PAL) / 30 fps (NTSC). Support set variable code flow storage
Recording Mode	Time and events, alarm, manual trigger, continuous video
Recording Inquires	Date, equipment name and channel numbers, alarm and event type, video trigger mode
Audio	G.711
Storage	
Hard Disk	HUS-HDD-4TB, HUS-HDD-3TB, HUS-HDD-2TB, HUS-HDD-1TB
Slot number	Support 16 x 3.5" enterprise hard disk (SAS/SATA)
Storage Extension	Single set of system maximum support installed 48 x 3.5" enterprise hard disk (SAS/SATA), support two video storage extended array (HUS-NVR-EC16-E)
Hard disk hot plug	Support
Expansion Interface	Mini SAS (6Gb/s)
RAID level	RAID 0, 1, 5, 6, 10, 50, 60
RAID management	Based on the Web browser mode, GUI configuration and management
RAID performance	RAID banding change Settings and RAID flash SAS/SATA hard disk mixed management mode Roll online flash and disk hot backup mechanism Disk medium detection and hard disk bad area isolation Data Snapshot copy function: Snapshot Different alarm information means: SNMP/Email
General	
Dimensions	433 (W) x 132.5 (H) x 660(D) mm (3U)
Weight	20kg±5% (exclude HDD)
Power Input	100 - 240VAC, 50/60Hz
Power Consumption	2 x 550W
Operating Temperature	10°C to 35°C
Storage Temperature	-40°C to 65°C
Relative Humidity	8% to 90% , non-condensing
Certification	CCC, CE, FCC

HUS-NVR-6032

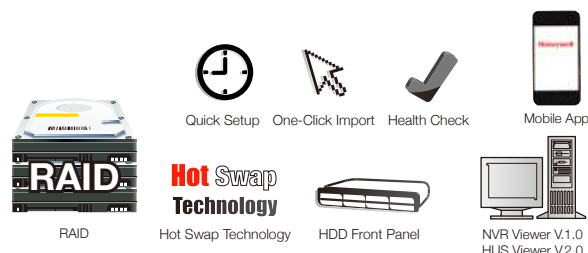
8-Ch 1080P / 16-Ch 720P Network Video Recorder with Hardware RAID



With advanced RAID data protection, numerous user-friendly features, and high quality recording resolutions, the HUS-NVR-6032 is ideal for mid- to large-scale installations in commercial buildings, banks, hospitals, shopping centers and so on.

- 4 channels @ 3M, 8 channels @ 1080P, 16 channels @ 720P, 32 channels @ D1 recording
- Hardware RAID 0, 1, 5, 6, 10 to protect video data efficiently against disk failure and unrecoverable read errors
- Dual power supplies to ensure stable operation
- Dual gigabit network for enhanced network data transmission stability

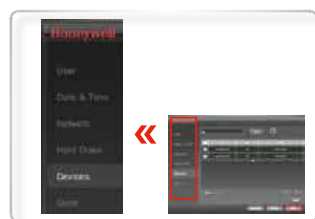
Model	HUS-NVR-6032
Operating System	LINUX
Processor	High-performance dual-core microprocessor
ONVIF Compliance	ONVIF Profile S
Video Input	32 channels @ D1 / 16 channels @ 720P / 8 channels @ 1080P / 4 channels @ 3M
Monitor Output	1 HDMI (1920 x 1080, 1280 x 1024), 1 VGA (1920 x 1080, 1280 x 1024), 1 BNC (800 x 600)
Video Standard	PAL or NTSC
Video Codec	H.264, MJPEG
Video Recording	32 channels @ D1 / 16 channels @ 720P / 8 channels @ 1080P / 4 channels @ 3M real-time
Multi-screen layout	1 / 4 / 6 / 8 / 9 / 16 / 32-channel display mode
Audio Input	Audio input with video streams
Motion Detection	Support
Alarm Event	Recording, PTZ preset, Alarm, Buzzer, Screen tips and Email
Alarm Input	16 alarm inputs (rear panel), 32-ch alarm inputs (IP camera)
Alarm Output	4 outputs
HDD	Hot swap, 8 SATA HDD, up to 32TB storage. 2 e-SATA up to 64TB
Backup	USB storage device, Network download



- Virtual disk for more flexible disk management
- Hot Swap technology for quick and easy HDD replacement without shutdown
- Setup Wizard and One-Click Import for fast installation
- ONVIF player certification to protect the watermark for the privacy of backup files
- Support ONVIF Profile S, HTTPS
- Mobile app HonView Touch available for high mobility monitoring
- Compatible with NVR Viewer v.1.0 and HUS Viewer v.2.0 for multi-NVR central management

Model	HUS-NVR-6032
HDD Management	HDD, quote, virtual disk, HDD faulty alarm
RAID	Hardware RAID 0, 1, 5, 6, 10
Recording Mode	Manual, Schedule, Motion detection trigger and Alarm trigger
Search Mode	Date/Time, Event (Alarm, Motion detection), Accurate search (to second), Log link
Playback	1/4 channel simultaneous playback (Forward / Reverse, Fast playback, Slow playback, Freeze, Full screen, Shuffle, Backup selection) .Up to 4 channel Instant Playback for 30s duration.
Digital Zoom	Digital zoom in live view and playback
Protocol Support	HTTP/HTTPS, TCP/IP, RTSP, UDP, NTP, DHCP, IPC Search
Remote Control Function	Monitor, PTZ control, Playback, Configuration, File download, Log information, firmware upgrade
Watermark	Support
User	32 users simultaneously
Network Interface	2 RJ-45 port (10/100M/1000M)
USB Interface	3 USB 2.0 ports
Serial Interface	1 RS-232
PTZ Control Interface	1 RS-485
OSD	English, Simplified Chinese, Traditional Chinese, Korean

Easy Setup



Setup Wizard

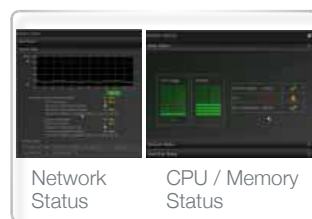


One-Click Import

Easy Maintenance



Hot-Swap Technology



System Status

HUS-NVR-1032 v.2.0

8-Ch 1080P / 16-Ch 720P Network Video Recorder



Feature-rich. Simply Easy. The latest HUS-NVR-1032 is designed with a number of user-friendly functions that enhance operation efficiency and video management experience.

- 4 channels @ 3M, 8 channels @ 1080P, 16 channels @ 720P, 32 channels @ D1 recording
- Step-by-Step setup by Setup Wizard
- Import devices at once by One-Click Import
- Control with ease via the intuitive user interface – with function buttons such as playback, live, views, patrol, alarm log and more

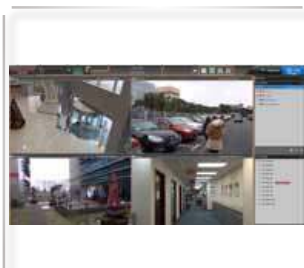
Model	HUS-NVR-1032 V.2.0
Operating System	LINUX
Processor	High-performance dual-core microprocessor
ONVIF Compliance	Support ONVIF
Video Input	32 channel @D1 / 16 channel @720P / 8 channel @1080P
Monitor Output	1 HDMI (1920 x 1080, 1280 x 1024), 1 VGA (1920 x 1080, 1280 x 1024), 1 BNC (800 x 600)
Video Standard	PAL or NTSC
Video Codec	H.264, MJPEG
Video Recording	32 channels @ D1 / 16 channels @ 720P / 8 channels @ 1080P real-time
Multi-screen layout	1 / 4 / 6 / 8 / 9 / 16-channel display mode
Audio Input	Audio input with video streams
Motion Detection	Supported
Alarm Event	Recording, PTZ preset, Alarm, Buzzer and Screen tips
Alarm Input	16 alarm inputs (rear panel), 32-ch alarm inputs (IP camera)
Alarm Output	4 outputs
HDD	Hot swap, 8 SATA HDD, up to 24TB storage



- Search desired videos by Timeline and export them to USB by Export Video Clips
- User-defined video quality for different
- Hot Swap technology for quick and easy HDD replacement without shutdown
- Check status of CPU, memory, network and HDD in System Status
- Mobile app HonView Touch available for high mobility monitoring
- Compatible with NVR Viewer v.1.0 and HUS Viewer v.2.0 for multi-NVR central management

Model	HUS-NVR-1032 V.2.0
Backup	USB storage device, Network download
HDD Management	HDD faulty alarm
Recording Mode	Manual, Schedule, Motion detection trigger and Alarm trigger
Search Mode	Date/Time, Event (Alarm, Motion detection), Accurate search (to second), Log link
Playback	1/4 channel simultaneous playback (Forward / Reverse, Fast playback, Slow playback, Freeze, Full screen, Shuffle, Backup selection)
Digital Zoom	Digital zoom in live view and playback
Protocol Support	HTTP, TCP/IP, RTSP, UDP, NTP, DHCP, IP Search
Remote Control Function	Monitor, PTZ control, Playback, Configuration, File download, Log information, firmware upgrade
User	32 users simultaneously
Network Interface	2 RJ-45 port (10/100M/1000M)
USB Interface	3 USB 2.0 ports
Serial Interface	1 RS-232
PTZ Control Interface	1 RS-485
OSD	English, Simplified Chinese, Traditional Chinese, Korean

Easy Operation

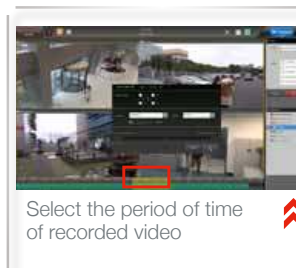


Intuitive User Interface



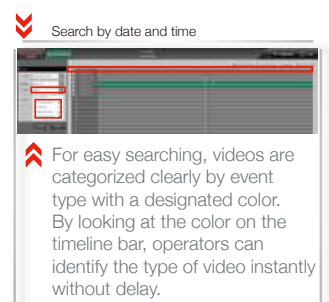
Panic button is on the GUI and the NVR chassis for easy access anytime

Panic Button



Select the period of time of recorded video

Export Video Clips



For easy searching, videos are categorized clearly by event type with a designated color. By looking at the color on the timeline bar, operators can identify the type of video instantly without delay.

Intuitive Timeline

HD-NVR-108/116

8/16 Channel Network Video Recorder



This NVR also functions as an IP storage device. It can be used to setup a standalone IP security system, or, it can be used as a component of a larger system.

- H.264 / MPEG-4 dual codec decoding
- All channels support simultaneous playback
- Intelligent event triggering recording and alarm linkage
- Remote network camera set up and image adjustment
- Automatic IP search for network cameras
- 8 SATA HDDs, up to 32TB storage
- Support ONVIF Profile S
- Be compatible with HDCS and HonView Touch (mobile phone surveillance app)

Model	HD-NVR-108	HD-NVR-116
Operating System	Embedded LINUX	
Video Input	8 channels @D1/ 4 channels @720P/ 2 channels @1080P	16 channels @D1/ 8 channels @720P/ 4 channels @1080P
Video Output	1 HDMI (video and audio), 1 VGA	
Video Standard	PAL or NTSC	
Compression	H.264 / MPEG4	
Video Recording	Up to 200/240fps @ D1 Up to 100/120fps @ 720P Up to 50/60fps @ 1080P	Up to 400/480fps @ D1 Up to 200/240fps @ 720P Up to 100/120fps @ 1080P
Multi-screen Channels	1, 4, 8, 9 Channels	1, 4, 8, 9 and 16 Channels
Resolution	1920x1080, 1280x1024, 1280x720, 1024x768	
Alarm Input	8 alarm inputs are from IP Cameras	16 alarm inputs are from IP Cameras
Alarm Output	6 outputs	
Internal HDD	8 SATA ports, 32TB storage supported	
Backup	Flash drive, USB HDD, USB CD or DVD-RW, eSATA, Network download	
HDD Management	HDD Group, HDD hibernation technology, HDD faulty alarm	
Playback	1/4/8 Channel simultaneously playback (forward / reverse, fast playback, slow playback, freeze, next file, previous file, next camera, previous camera, full screen, repeat, shuffle, backup selection)	1 / 4 / 8 / 16 Channel simultaneously playback (forward / reverse, fast playback, slow playback, freeze, next file, previous file, next camera, previous camera, full screen, repeat, shuffle, backup selection)
Digital Zoom	Any size digital zoom in live view and playback	
Protocol Support	HTTP, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, IP Search	
Compatible Protocol	ONVIF Profile S	

HD-DVR-7016

16-Channel D1 DVR



For hybrid applications. Supports up to 16 analog channels and D1 resolution recording.

- H.264 dual-stream video compression
- Up to 16 channels with 1080P real-time live view
- All-channel simultaneous real-time playback and smart search
- Dual encoding streams; mobile phone monitoring
- HDMI / VGA / TV / Spot (BNC) synchronous video output
- Support 8 SATA HDDs, up to 24TB storage
- USB device and eSATA port for backup
- Be compatible with HDCS and HonView Touch (mobile phone surveillance app)

Model	HD-DVR-7016
Operating System	Embedded LINUX
Processor	High performance dual-core embedded microprocessor
Video Input	16 composite video 1.0Vpp, 75Ω, BNC
Video Output	1 composite video output, 1.0Vpp, 75Ω BNC; 1 VGA; 1 HDMI, 16-ch loop output
Video Standard	PAL or NTSC
Compression	H.264
Video Recording	Dual encoding streams: D1/HD1/2CIF/CIF @ 25/30fps (real time) & CIF/QCIF @ 25/30fps (real time)
Multi-screen Channel	1, 4, 8, 9 and 16
Audio Input	16 line in
Audio Output	1 line out
Alarm Event	Trigger recording, PTZ control, Alarm output, E-mail, Tour, FTP, Spot, Buzzer, Screen tips
Alarm Input	16 inputs configurable NO/NC
Alarm Output	6 outputs, 30VDC, 1A, NO/NC
Internal HDD	Up to 8 SATA hard disks, 24TB storage supported
External Backup	eSATA, Flash drive, USB HDD, USB CD-RW or DVD-RW, Network
HDD Management	HDD Group, HDD hibernation technology, HDD faulty alarm
Recording Mode	Manual, continuous, video alarm trigger (motion detection, video loss and blank) and alarm trigger
Pre-alarm Recording	1 to 120 minutes (default: 60 minutes) interval file, 16 channels for pre-recording up to 30 seconds, post-recording up to 5 minutes per channel
Playback	1/2/4/16 channels simultaneous playback (forward / reverse, fast playback, slow playback, freeze, next file, previous file, next camera, previous camera, full screen, repeat shuffle, backup selection)
Digital Zoom	Any size digital zoom in live view and playback.
Protocol Support	HTTP, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP
PTZ Protocol	Pelco-D, Pelco-P, Scandome, KD6, etc.

HUS-D1X/HUS-D4X

1-/4-Channel High Definition Network Video Decoder



For medium to large scale monitoring systems. It bridges DVRs, digital video streamers and IP cameras to video wall. Available in 1 or 4 channels of HDMI / BNC / VGA video output.

- H.264 / MPEG-4 dual codec video decoding
- Support multiple devices: IP camera, DVR, NVR, digital video streamer
- Up to 4-channel 1080P display output at 25/30fps
- VGA, HDMI and BNC output
- Various display-split modes
- Auto-connect activates when the network is disconnected or power failure occurs
- ONVIF Profile S
- Built-in web browser
- Compatible with HUS 4.3, HUS Viewer and HDCS

Model	HUS-D1X	HUS-D4X
Operating System	Embedded LINUX	
Processor	High performance industry embedded micro processor	
Video Input	16 channel @ D1, 8 channel @ 720P, 4 channel @ 1080P	
Compatible Protocol	ONVIF Profile S	
Video Output	1 HDMI, 1 BNC, 1 VGA	4 HDMI, 4 BNC, 4 VGA
Video Standard	PAL / NTSC	
Video Frame Rate	1~25f/s or 1~30f/s	
Video Split	1/4/9/16	1/4
Compression	H.264 / MPEG4	
Decode display resolution	QCIF / CIF / 2CIF / HD1 / D1 / 720P / 1080P	
Network Interface	1 RJ-45 port (10/100M/1000M)	
Serial Interface	1 RS-232	
PTZ Control Interface	2 RS-485	

HUS-D4-E-Pro

Intelligent Network Video Decoder



Enabling various IP front end devices to be managed in the same system and displayed on the same video wall. Supports up to 16 channels at D1 resolution and full frame rate streams decoding.

- Decode high definition (1080P / 720P), Megapixel and standard resolution video streams
- Drive 4 high definition monitors from one unit simultaneously
- Split-screen display for up to 16 images per screen
- H.264, MPEG4, MPEG2 and MJPEG compression
- Simultaneously decode up to 4 streams at D1 resolution with real time on each port

HUS-D4-E-Pro	
Processor	Intel Core i3 3220, 3.3 GHz, 4 Threads, 3MB Cache
Memory	4GB
Network	1 Gigabit Ethernet RJ-45 Port
Input Device	High-definition / Megapixel / Standard resolution IP camera, Encoder, DVR
Video Compression	H.264, MPEG4, MPEG2, MJPEG
Video Splitter	Full Screen, 2x2, 3x3, 4x4, 6, 8, 9, 13, 16 split screen
Display Resolution	1080P / 720P / Megapixel / D1 / 4CIF / VGA / CIF
Video Output	4 x HDMI ports to digital display screen

HVAE-0100/0400

1-/4-Channel D1 Resolution Digital Video Analytics Encoder



For hybrid applications – for bridging analog cameras to the TCP/IP network. With built-in video analytics detection functions including:

- Intrusion
- Tripwire
- Fence climbing
- Moving route
- Loitering
- Unattended baggage
- Illegal vehicle parking
- Object removal
- Independent PTZ tracking

HUSS-E4V

4-Channel Dual D1 Video Encoder



For hybrid applications – for bridging analog cameras to the TCP/IP network. Equipped with a powerful dual-core chipset. Capable of compressing single video input into 2 streams at up to D1 resolution each.

- H.264 main profile compression
- Dual D1 at full frame rate streams for each channel
- Flexible alarm trigger: Motion Detection, Video loss and Alarm input
- Full web browser control via IE

HUSS-E2X/E4X/E8X

2-/4-/8-Channel Full D1 Digital Video Encoder

For hybrid applications – for bridging analog cameras to the TCP/IP network. Performing high definition images with full D1 real-time main stream and extra stream.

- H.264 dual-stream video compression
- Dual-core CPU ensures powerful preview and network performance
- Up to 2 / 4 / 8 cameras with 1080P real-time preview
- HDMI / VGA / TV / Spot (BNC) synchronous video output
- All-channel simultaneous real-time playback, GRID interface
- Dual Core Encoding Full channel @ D1 (4CIF) real-time recording (main stream and extra stream)



Model	HVAE-0100/0400	HUSS-E2X/E4X/E8X	HUSS-E4V
Operating System	---	Embedded LINUX	Embedded LINUX
Operation	---	Front panel, USB mouse, IR remote controller, Network	IE browser
Channel	1 / 4 video channels. Video analyzed	2 / 4 / 9 video channels	4 video channels
Auto Tracking PTZ Cameras	Honeywell HSD-261P-AT, HSD-261PW-AT, HSD-361PW-AT	---	---
Video Input	1 composite video, 1.0Vp-p, 75Ohm, BNC	2-/4-/8-channel composite video 1.0Vp-p, 75Ohm, BNC	4 Channel composite videos ,1.0Vp-p, 75Ohm, BNC
Video Standard	PAL	PAL or NTSC	PAL / NTSC
Compression	MPEG-4 SP, M-JPEG	H.264	H.264
Resolution	4CIF max.	D1 / HD1 / 2CIF / CIF / QCIF, 25/30fps (real-time). Dual Encoding Stream	D1 / 2CIF / CIF / QCIF / VGA / QVGA 25/30fps (real-time) dual stream
Alarm Input	4 or 8 inputs (from Dry Contacts)	4 / 8 / 16 inputs	4 inputs

HUS-IPS-5100S(D)-E

IP SAN Unified Video Storage System



Honeywell's HUS-IPS-5100S(D)-E is a controller-based IP SAN unified storage appliance. Designed for centralized mass data storage, this IP SAN solution can be used with the high performance streaming server HUS-IPS-STM-E to stream videos at D1 resolution. Single storage controller and dual active controller model available. Its streaming server HUS-IPS-STM-E supports 128-channel video streaming at D1 resolution and 2 Mbps bit rate and with real-time forwarding capability. It also supports N+1 hot redundancy (with IP SAN JBOD).

- 320-channel of real-time recording at D1 resolution and 2Mbps bit rate
- 64-channel of real-time forwarding at D1 resolution and 2Mbps bit rate

Streaming Server	
Model	HUS-IPS-STM-E
Server	Dell PowerEdge Server x 1
Processor	Quad-Core Intel E5-2403 Series Processors
Cache	10MB
Memory	8 GB , 1333 MHz
Network	2 Gigabit Ethernet RJ-45 Ports
Hard Disk	3.5" SATA (7200 RPM): 500GB
Drive Bays	Up to 4 x 3.5" hot-swappable SAS or SATA drives
Operating System	Windows Server 2008 Standard 64 bit

IP SAN JBOD	
Model	HUS-IPS-EC16S(D)-E
Form Factor	3U16Bay, Rack-mountable
Max. No. of Drives per Enclosure	16
Max. JBOD Units	3

- HUS-IPS-5100S-E supports 4 x 1Gb/s iSCSI host channel
- HUS-IPS-5100D-E supports 8 x 1Gb/s iSCSI host channel
- Optimized I/O designed for simultaneous storage of mass data
- Power failure protection and 72-hour battery backup to prevent data loss
- Hot swappable hard disk
- RAID0/1/5/6/10 and global hot backup or free disk hot backup
- Intelligent Video Analytics – 6 channels at D1, 4 channels at 720P / 1080P

IP SAN		
Model	HUS-IPS-5100S-E	HUS-IPS-5100D-E
Form Factor	3U16Bay, Rack-mountable	
Controller	Single controller	Dual active-active controllers
Memory	Standard 2GB, Max 4GB	Standard 4GB, Max 8GB
RAID Level	0,1,5,6,10	
Host Channel	4 x 1Gb/s iSCSI	8 x 1Gb/s iSCSI
Network Port	4 x 1Gb Ethernet	8 x 1Gb Ethernet
OS	MS Windows, Linux, Mac OS	
Max. No. of Drives per Enclosure	16	
JBOD	HUS-IPS-EC16S-E	HUS-IPS-EC16D-E
Max. No. of Drives per System	64	
HDD	HUS-HDD-1TB, HUS-HDD-2TB, HUS-HDD-3TB and HUS-HDD-4TB	
Device Management	Device management software, support for SNMP, Email alerts	
Storage Management	Fast performance optimization techniques; Active Data Stream Stabilization; Multi-MAID; Multiple RAID levels; Local hot spare and global hot spare; Online disk transfer and array roaming; HDD SMART	

HJC-5000

Network Joystick Keyboard



An easy-to-operate network keyboard for HUS XPRO, providing a real-time intuitive method of control for operators.

- Touch wheel for DVR/NVR control
- Multiple connectivity options (RS232/422/485 and TCP/IP)
- Keys are backlit with pleasant adjustable blue LED
- Power over Ethernet
- Web browser for easy upgrading and configuring

HJC-5000	
Baud Rates	1200, 4800, 9600, 19200, 57600
Operating Distance	RS232: 50' (15.2m) / RS422: 4000' (1219m) LAN: 328' (100m)
Joystick	3-axis proportional control
Keys	Laser cut with blue backlight
Touch Wheel	Both Modes: DVR/NVR control VideoBloX: Camera selection
Standard Keys	0-9, Clr, Ent, Cam, Mon, Mux, Device, Alarm, Seq, Login
Camera Function	View, Tour, PTZ Call, Alt, Undo, Set, Iris, (2) Focus, MonA, MonB
Keys	Rec/Stop, Play Fwd, Play Rev, Review, Search, Touch Pad and Ring for FF, REW, Step FWD, REV
DVR/NVR Keys	MAX Mode: (18) F1-9, F10+F1-9 VideoBloX: (20) F1-10, Alt+F1-F10
Function Keys	STN, Positive image, 122 x 32 Dots, Blue White
LCD	backlight

HUS XACT

A Plug-and-Play IP Security Platform for Mid Scale Applications

Are you looking for

- An IP security platform for mid range installation with less than 128 video channels?
- An IP security platform that is capable to integrate video, intrusion and access control systems together?
- An IP security platform that is easy-to-operate?
- An IP security platform that can be installed in just a few steps?

HUS XACT

...is the solution for what you are looking for !

One for All

HUS XACT smart IP security solution is ideal for different types of IP security deployment, including existing analog system to digital expansion, analog to digital migration, full digital system development, or integrated security development with access control and intrusion systems.

Plug-and-Play

HUS XACT is engineered with a simple and compact architecture. Also with ONVIF interface, auto device search function and one-click default configuration, installation can be done within an hour!

Less is More

HUS XACT seamlessly integrates IP video security, Honeywell VISTA intrusion panels and WIN-PAK access control system into one single, unified, feature-rich GUI.

Powerful and Easy Management

- Fast and effective event notification, validation and processing
- High profile H.264 to make the best use of network and storage resources
- Optimize network resources, multicast, unicast forwarding and dual-stream

Powerful Integration

- Integrate video surveillance, access control and intrusion into one system for high operation efficiency and to save operation costs

Effective Emergency Response and Powerful Integration Capacity

- Multilayer E-map helps locate alarm scenes quickly
- Preprogramming for quick response to various emergencies
- Integration with VISTA series intrusion system providing proactive alarm event management
- Integration with WIN-PAK® access control management system

High Reliability

- Stable operation 24/7/365
- Hardware and software are qualified strictly by Honeywell

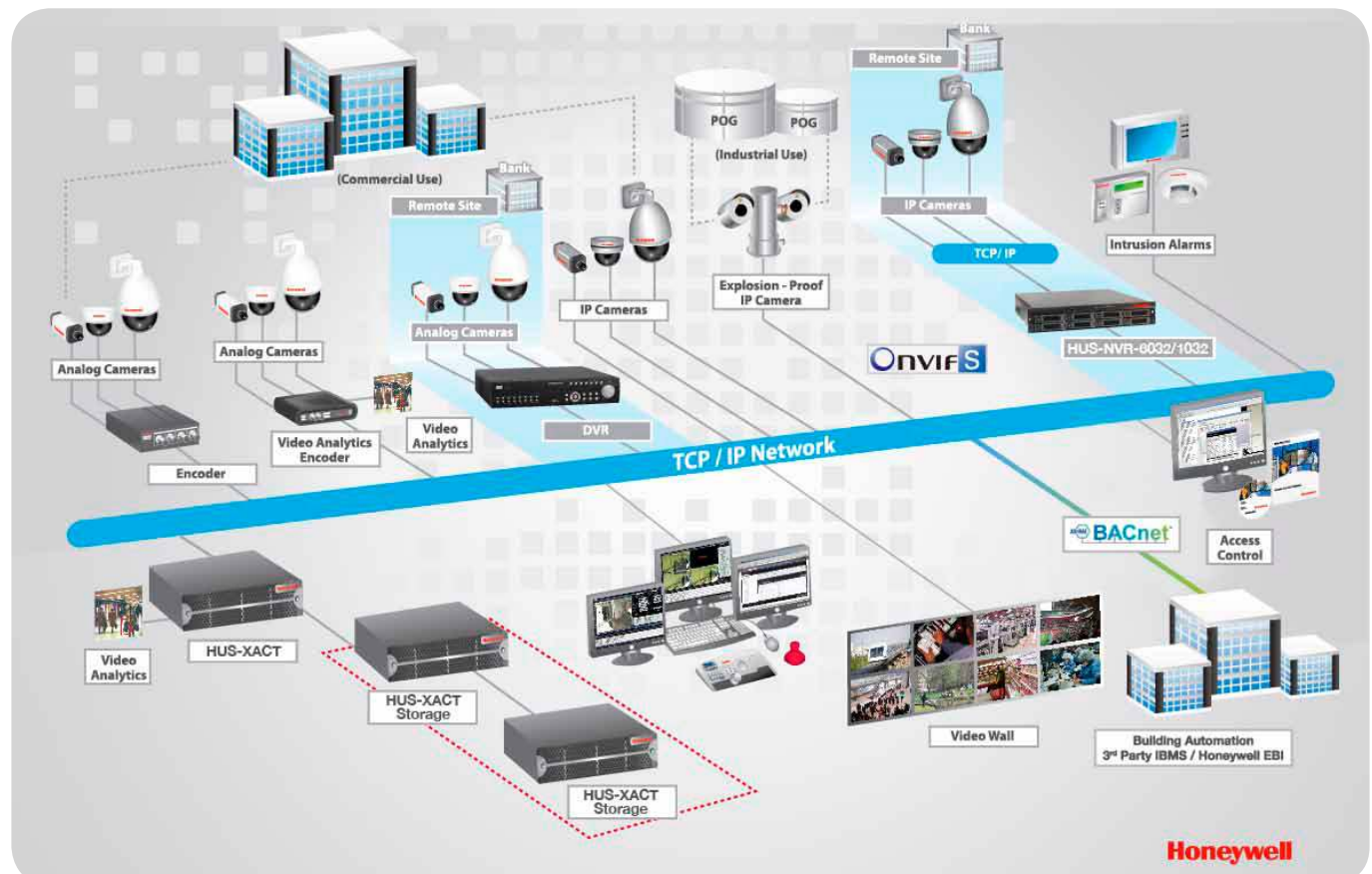
Simple Operation

- CCTV keyboard for full control of live view and PTZ
- Unified client operation interface for easy access

Flexible System Deployment

- Automatic discovery of IP devices, simplifying installation and commissioning work
- One click system configuration with default setting

Enjoy the Powerful Integration Power from HUS XACT!



HUS-XACT100P-E

For medium to large-scale applications in single site or multiple sites



It can be integrated with the HUS central management master server HUS-XPRO-MAS-E to perform video monitoring, access control and intrusion functions for multiple sites.

- Supports 128 channels video management, 5 clients
- Maximum 128 channels D1 resolution image at real-time storage
- Each client supports 16 channels video playback (D1 resolution/full real time)
- H.264, MPEG4 and other audio/video codec
- Internal storage up to 16 enterprise hard disks; external storage up to 48 hard disks
- Unified interface for easy configuration, video management, alarm and entrance guard system
- Integrate video, alarm and access control information for quick response and event handling
- Support Honeywell Video Analytics features
- Accurate event allocation on the map with video verification by E-Map
- SQL Server 2008 Standard. No database size limit
- Support integration with HUS-XPRO server HUS-XPRO-MAS-E to deploy a powerful multi-site system

HUS XACT-S Series

HUS-XACT100S-E & HUS-XACT050S-E

For medium-scale applications in single site



Available in 64 or 128 channels, this series is engineered for standalone surveillance systems and/or video, access control, intrusion integrated security installations. Its high scalability feature makes it flexible for system expansion in future.

- Supports 128 channels (or 64 channels) video management, 5 clients
- Maximum 128 channels (or 64channels) D1 resolution image at real-time storage
- Each client supports 16 channels video playback (D1 resolution/full real time)
- H.264, MPEG4 and other audio/video codec
- Internal storage up to 16 enterprise hard disks; external storage up to 48 hard disks
- Unified interface for easy configuration, video management, alarm and entrance guard system
- Integrate video, alarm and access control information for quick response and event handling
- Support Honeywell Video Analytics features
- Accurate event allocation on the map with video verification by E-Map
- SQL Server 2008 Express

HUS XACT032S-E-08




For 32-channel or below single site surveillance deployment



It is a cost-effective yet reliable solution for medium-scale security systems that require integration of video, access control and intrusion in one single site.

- Support 32 channels video management, 5 clients
- Maximum 32 channels D1 or 720P or 1080P resolution image at real-time storage
- Supports 10 channels video forward and/or playback (D1 or 720P or 1080P resolution/full real time)
- H.264, MPEG4 and other audio/video codec

- Internal storage up to 8 enterprise hard disks
- Unified interface for easy configuration, video management, alarm and entrance guard system
- Integrate video, alarm and access control information for quick response and event handling
- Support Honeywell Video Analytics features
- Accurate event allocation on the map with video verification by E-Map
- SQL Server 2008 Express
- Windows® 7 operating system

Model	HUS-XACT100P-E	HUS-XACT100S-E	HUS-XACT050S-E	HUS-XACT032S-E-08
	Enhanced version of HUS XACT. Ideal for mid-scale integration in multiple sites. 	Standard Version of HUS XACT. Ideal for mid-scale installations in single site. 		Standalone Version of HUS XACT. Ideal for standard installations with 32 channels or less in single site. 
System				
System access points	128 video channels, 128 alarm defense zones, 128 card readers, 5 clients	128 video channels, 128 alarm defense zones, 128 card readers, 5 clients	64 video channels, 64 alarm defense zones, 64 card readers, 5 clients	32 video channels, 32 alarm defense zones, 32 card readers, 5 clients
System Throughput Capacity	Support 340 Mbps bandwidth throughput capacity			
Configuration Parameters (D1/25fps/2Mbps)	128 channels real-time recording video + 20 channels history video playback + 20 channels streaming video forward	128 channels real-time recording video + 20 channels history video playback + 20 channels streaming video forward	64 channels real-time recording video + 10 channels history video playback + 10 channels streaming video forward	32-ch real-time recording video + 5-ch history video playback + 5-ch streaming video forward
Processor (CPU)	Intel quad-core processor 3.1 GHz, 8MB Cache	Intel quad-core processor 3.1 GHz, 8MB Cache		Intel E3-1230 3.2GHz, 64-bit, 4 Threads, 8 MB Cache
Memory	8 GB			
Hard Disk	Enterprise class hard disk 1TB, 3.5" 7200 RPM, SATA, 32MB Cache	Enterprise class hard disk 1TB, 3.5" 7200 RPM, SATA, 32MB Cache		Enterprise class hard disk 1TB, 3.5" 7200 RPM, SATA, 16 MB Cache
Network	2 x 1Gbps Ethernet RJ-45 Ports			
RAID controller	Enterprise LSI MegaRAID SAS 9260 (6Gb/s per port)			IBM M5015 (6Gb/s per port)
Operating System	Windows Server 2008 Standard 64 bit			Windows 7 Professional Edition 64-bit
Database	SQL Server 2008 Standard	SQL Server 2008 Express		SQL Server 2008 Express
IOPS	140,000 (Input/Outputs Per Second)			
Condition Monitoring	Fault/error/overload and alarm (including disk/RAID/power/fan/temperature/IO performance)			
Hardware Redundancy	Power supply and fan module redundancy (2 x PFC)			
Video / Audio				
Video Input	IP mode access			
Compression	H.264, MPEG4, MPEG2, MJPEG			
Resolution	1080P, 720P, Megapixel, D1, 4CIF, VGA, CIF			
Frame Rate	Max. 25 FPS (PAL) / 30 FPS (NTSC), support set variable code flow storage			
Recording Mode	Time and events, alarm, manual trigger, continuous video			
Recording Inquires	Date, device name and channel numbers, alarm and event type, video trigger mode			
Audio Codec	G.711			
Storage Performance				
Hard Disk	HUS-HDD-4TB, HUS-HDD-3TB, HUS-HDD-2TB, HUS-HDD-1TB			
Slot Number	16 x 3.5" enterprise hard disk (SAS/SATA)			8 x 3.5" enterprise hard disk (SAS/SATA)
Storage Extension Number	Single set of system supports maximum 48 x 3.5" enterprise hard disk (SAS/SATA), support two video storage extended array HUS-XACT-EC16-E			n/a
Hard Disk Hot Plug	Support hard disk hot plug			
Expansion Interface	Mini SAS (6Gb/s)			n/a
RAID level	RAID 0, 1, 5, 6, 10, 50, 60			RAID 0, 1, 5
RAID management	Based on the Web browser mode, GUI configuration and management			
RAID performance	RAID banding change Settings and RAID flash SAS/SATA hard disk mixed management mode Roll online flash and disk hot backup mechanism Disk medium detection and hard disk bad area isolation Data Snapshot copy function: Snapshot Different alarm information means: SNMP/Email			

Intelligent Video Analytics

Advanced Detection for Advanced Security Surveillance

Honeywell's suite of video analytics products enables enhanced security and surveillance solutions by automatically monitoring video for specific people, vehicles, objects and their associated behavior within a camera view. Honeywell HUS Video Analytics packages provide real time alarms based on user-defined rules to detect abnormal or suspicious behavior accurately without the need for human supervision.

Whether it is a manned or unmanned operation, with 24/7 detection, HUS Video Analytics enhances monitoring accuracy, increases operation efficiency and optimizes the use of current personnel resources.

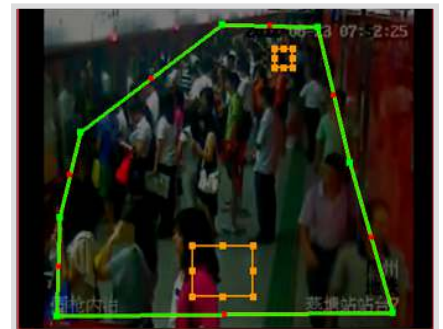
HUS Video Analytics software is available in 3 levels – Base, Standard and Premium. Each of these enables a different set of detectable behaviors. You can also choose standalone People Counting and Smart Impressions package if you only need counting data of people and vehicles entering or exiting a camera scene.



Honeywell Video Analytics



Illegal U-turn



Crowd Analytics



Fence Climbing



Trespass



Illegal Vehicle Parking

HUS Video Analytics Functions

Event	Base	Standard	Premium	People Counting	Smart Impressions
People Events					
Person entered restricted zone	✓	✓	✓		
Person exited restricted zone	✓	✓	✓		
Person loitering in restricted zone		✓	✓		
Person started moving in wrong direction	✓	✓	✓	✓	
Person stopped moving in wrong direction	✓	✓	✓		
Person on fence line		✓	✓		
Person started running			✓		
Person stopped running			✓		
People converged		✓	✓		
People passed by		✓	✓		
Person trespassing - tripwire	✓	✓	✓		
Person running in wrong direction			✓		
Person in sterile zone		✓	✓		
Car traffic events					
Car started moving in wrong direction	✓	✓	✓		
Car stopped moving in wrong direction	✓	✓	✓		
Car entered restricted zone	✓	✓	✓		
Car parked in restricted zone		✓	✓		
Car speeding			✓		
Car made illegal u-turn		✓	✓		
Car parked in handicapped zone		✓	✓		
Car pulled off channels		✓	✓		
Car needs assistance		✓	✓		
Car exited restricted zone	✓	✓	✓		
Car trespassing - tripwire	✓	✓	✓		
Car in sterile zone		✓	✓		
Video/Camera Events					
Video signal lost	✓	✓	✓	✓	✓
Video signal restored	✓	✓	✓	✓	✓
Counting Events					
Person counted as entering		✓	✓	✓	✓
Person counted as exiting		✓	✓	✓	✓
Car entered lot		✓	✓		✓
Car exited lot		✓	✓		✓
Car counted in lane			✓		✓
Premium Events					
Object left unattended			✓		
Object removed			✓		
Possible theft			✓		
Smart Impressions					
Entering target zone					✓
Staying in target zone					✓

Note:

1. Base, standard and Premium package is a mutually exclusive relationship, can only choose one of them.
2. If only people counting feature is required, you may select the "People Counting" package only.
3. If only vehicle access counting and traffic statistics are required, you may select the "Smart Impressions" package only.
4. People Counting package is free-of-charge with purchase of Base Package or Standard Package or Premium package.
5. Smart Impressions package is free-of-charge with purchase of Base Package or Standard Package or Premium package.

Honeywell IP Cameras





Your First Choice for High Definition Images

From 3-megapixel, to 1080P, 720P high definition resolution, Honeywell Security offers you a comprehensive selection of IP fixed dome, box, IR and speed dome cameras to deliver high quality images for your digital surveillance monitoring. By applying H.264 compression format, Power over Ethernet (PoE) and ONVIF interface, Honeywell IP Cameras capture sharp and clear images to protect your valuable assets 24/7 all year round.

3M IP Camera

Model	HICC-P-3100	HICC-P-3100IRV	HIDC-P-3100V	HIDC-P-3100IRV	HIVDC-P-3100IRV
					
Image Sensor	1/2.8" Exmor 3.4M CMOS	1/2.8" Exmor 3.4M CMOS	1/2.8" Exmor 3.4M CMOS	1/2.8" Exmor 3.4M CMOS	1/2.8" Exmor 3.4M CMOS
Effective Pixels	2096 x 1561 pixels	2096 x 1561 pixels	2096 x 1561 pixels	2096 x 1561 pixels	2096 x 1561 pixels
Lens	C/CS mount	3 - 9mm vari-focal	3 - 9mm vari-focal	3 - 9mm vari-focal	3 - 9mm vari-focal
Min Illumination	0.5 Lux	0 Lux (IR ON)	0.5 Lux	0 Lux (IR ON)	0 Lux (IR ON)
Resolution	Up to 25/30fps in all resolutions	Up to 25/30fps in all resolutions	Up to 25/30fps in all resolutions	Up to 25/30fps in all resolutions	Up to 25/30fps in all resolutions
Day/Night	TDN	TDN	TDN	TDN	TDN
IR Distance	-	20 - 25m	-	10 - 15m	15m
Video Encoder	H.264 (high/main/baseline), MJPEG	H.264 (high/main/baseline), MJPEG	H.264 (high/main/baseline), MJPEG	H.264 (high/main/baseline), MJPEG	H.264 (high/main/baseline), MJPEG
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
PoE	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
Protection Class	-	IP66	-	-	IP66

1080P @ 60fps Cameras

Model	HICC-P-2100X	HICC-P-2100XIRV	HIDC-P-2100XV	HIDC-P-2100XIRV	HIVDC-P-2100XIRV
					
Image Sensor	1/2.8" Exmor CMOS	1/2.8" Exmor CMOS	1/2.8" Exmor CMOS	1/2.8" Exmor CMOS	1/2.8" Exmor CMOS
Effective Pixels	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Resolution	2M / 1080P	2M / 1080P	2M / 1080P	2M / 1080P	2M / 1080P
Frame Rate	2M / 1080P: 60fps mode - 60fps WDR mode - 30fps	2M / 1080P: 60fps mode - 60fps WDR mode - 30fps	2M / 1080P: 60fps mode - 60fps WDR mode - 30fps	2M / 1080P: 60fps mode - 60fps WDR mode - 30fps	2M / 1080P: 60fps mode - 60fps WDR mode - 30fps
Lens	CS mount	Vari-focal 3x zoom lens	Vari-focal 3x zoom lens	Vari-focal 3x zoom lens	Vari-focal 3x zoom lens
Iris	P-iris	P-iris	P-iris	P-iris	P-iris
Back Focus	Remote back focus	Auto Back Focus	Auto Back Focus	Auto back focus	Auto back focus
Min Illumination	0.01 Lux	0 Lux (IR ON)	0 Lux (IR ON)	0.01 Lux	0 Lux (IR ON)
Day/Night	TDN	TDN	TDN	TDN	TDN
WDR	WDR	WDR	WDR	WDR	WDR
IR Beam Distance	--	20m	20m	--	20m
Video Encoder	H.264 (HP, MP, BL), MJPEG	H.264 (HP, MP, BL), MJPEG	H.264 (HP, MP, BL), MJPEG	H.264 (HP, MP, BL), MJPEG	H.264 (HP, MP, BL), MJPEG
Detection	Object, motion, audio, face, tampering	Object, audio, face, tampering, tripwire	Object, audio, face, tampering, tripwire	Object, audio, face, tampering, tripwire	Object, audio, face, tampering, tripwire
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
PoE	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
Protection Class	--	IP66	--	--	IP66, IK-10

1080P

Model	HICC-2600T	HICC-2600TVI	HIDC-2600TV	HIDC-2600TVI	HIVDC-2600TVI	HICC-2300	HICC-2300T	HIDC-2300V	HIVDC-2300V
Image Sensor	1/2.9" Exmor CMOS	1/2.9" Exmor CMOS	1/2.9" Exmor CMOS	1/2.9" Exmor CMOS	1/2.9" Exmor CMOS	1/3" Megapixel CMOS	1/3" Megapixel CMOS	1/3" Megapixel CMOS	1/3" Megapixel CMOS
Effective Pixels	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Lens	CS/C	2.8 - 12mm 3M	2.8 - 12mm 3M	2.8 - 12mm 3M	2.8 - 12mm 3M	DC Iris	DC Iris	2.8 - 12mm vari-focal	2.8 - 12mm vari-focal
Min Illumination	Color: 0.02 Lux B/W: 0.005 Lux	Color: 0.02 Lux B/W: 0 Lux (IR ON)	Color: 0.02 Lux B/W: 0.005 Lux	Color: 0.02 Lux B/W: 0 Lux (IR ON)	Color: 0.02 Lux B/W: 0 Lux (IR ON)	Color: 0.1 Lux, B/W: 0.005 Lux	Color: 0.1 Lux, B/W: 0.005 Lux	Color: 0.1 Lux, B/W: 0.001 Lux	Color: 0.1 Lux, B/W: 0.001 Lux
Resolution	1920 x 1080, 1280 x 720, 960 x 544 @ 25/30fps					1920 x 1080, 640 x 480, 320x240, 160x112 @ 25/30fps			
Day/Night	TDN	TDN	TDN	TDN	TDN	SDN	TDN	SDN	SDN
WDR	WDR	WDR	WDR	WDR	WDR	-	-	-	-
IR Distance	-	30 - 40m	-	10 - 20m	15m	-	-	-	-
Video Encoder	H.264 HP, MJPEG	H.264 HP, MJPEG	H.264 HP, MJPEG	H.264 HP, MJPEG	H.264 HP, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
PoE	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
Protection Class	-	IP66	-	-	IP66, IK-10	-	-	-	IP65

Model	HICC-P-2100	HICC-P-2100IRV	HIDC-P-2100V	HIDC-P-2100IRV	HIVDC-P-2100IRV	H2S2P6(X)
Image Sensor	1/2.7" 2M CMOS	1/2.7" 2M Exmor CMOS	1/2.7" 2M CMOS	1/2.7" 2M CMOS	1/2.7" 2M CMOS	1/2.7" CMOS
Effective Pixels	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Lens	C/CS mount	3.3 - 12mm	3.3 - 12mm	3.3 - 12mm	3.3 - 12mm	4mm
Min Illumination	Color: 0.5 Lux B/W: 0.08 Lux	Color: 0.5 Lux B/W: 0 Lux (IR ON)	Color: 0.5 Lux B/W: 0.08 Lux	Color: 0.5 Lux B/W: 0 Lux (IR ON)	Color: 0.5 Lux B/W: 0 Lux (IR ON)	Color: 0.4 Lux
Resolution	2M Mode: 1920 x 1080, 912 x 1080, 1280 x 720, 640 x 360, 320 x 180 @ 25/30fps 1080P + D1 Mode: 1920 x 1080, 704 x 576, 352 x 288 @ 25/30fps					1920 x 1080, 1280 x 1024 @ 25/30fps
Day/Night	TDN	TDN	TDN	TDN	TDN	--
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	WDR
IR Distance	-	15m	-	15m	15m	--
Video Encoder	H.264 (HP, MP, BL)*, MJPEG	H.264 (HP, MP, BL)*, MJPEG	H.264 (HP, MP, BL)*, MJPEG	H.264 (HP, MP, BL)*, MJPEG	H.264 (HP, MP, BL)*, MJPEG	H.264 (x3), H.264/MJPEG
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
PoE	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
Protection Class	-	IP66	-	-	IP66	--

720P @ 60fps Cameras

Model	HICC-P-1100E	HICC-P-1100EIRV	HIDC-P-1100EV	HIDC-P-1100EIRV	HIVDC-P-1100EIRV
Image Sensor	1/3" Exmor CMOS	1/3" Exmor CMOS	1/3" Exmor CMOS	1/3" Exmor CMOS	1/3" Exmor CMOS
Effective Pixels	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
Resolution	720P / 1.3M	720P / 1.3M	720P / 1.3M	720P / 1.3M	720P / 1.3M
Frame Rate	720P - 60fps 1.3M - 25/30fps	720P - 60fps 1.3M - 25/30fps	720P - 60fps 1.3M - 25/30fps	720P - 60fps 1.3M - 25/30fps	720P - 60fps 1.3M - 25/30fps
Lens	CS mount	3.3 - 12mm	3.3 - 12mm	3.3 - 12mm	3.3 - 12mm
Back Focus	Manual	-	-	-	-
Min Illumination	Color: 0.2 Lux B/W: 0.08 Lux	Color: 0.2 Lux B/W: 0 Lux (IR ON)	Color: 0.2 Lux B/W: 0 Lux (IR ON)	Color: 0.2 Lux B/W: 0.08 Lux	Color: 0.5 Lux B/W: 0 Lux (IR ON)
Day/Night	TDN	TDN	TDN	TDN	TDN
WDR	WDR	WDR	WDR	WDR	WDR
IR Beam Distance	-	20m	-	15m	15m
Video Encoder	H.264 (HP, MP, BL), MPEG4, MJPEG	H.264 (HP, MP, BL), MPEG4, MJPEG	H.264 (HP, MP, BL), MPEG4, MJPEG	H.264 (HP, MP, BL), MPEG4, MJPEG	H.264 (HP, MP, BL), MPEG4, MJPEG
Detection	Motion, audio, tampering	Motion, audio, tampering	Motion, audio, tampering	Motion, audio, tampering	Motion, audio, tampering
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
PoE	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
Protection Class	-	IP66	-	-	IP66, IK-10

*H.264 high profile, main profile, baseline

720P Cameras


Model	HICC-1600T	HICC-1600TVI	HIDC-1600TV	HIDC-1600TVI	HIVDC-1600TVI	H2S1P6(X)
						
Image Sensor	1/3" Exmor CMOS	1/3" Exmor CMOS	1/3" Exmor CMOS	1/3" Exmor CMOS	1/3" Exmor CMOS	1/2.7" CMOS
Effective Pixels	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720
Lens	CS/C	2.8 - 12mm 2M	2.8 - 12mm 2M	2.8 - 12mm 2M	2.8 - 12mm 2M	4mm
Min Illumination	Color: 0.01 Lux B/W: 0.001 Lux	Color: 0.01 Lux B/W: 0 Lux (IR ON)	Color: 0.01 Lux B/W: 0.001 Lux	Color: 0.01 Lux B/W: 0 Lux (IR ON)	Color: 0.01 Lux B/W: 0 Lux (IR ON)	Color: 0.4 Lux
Resolution	1280 x 720, 960 x 544 @ 25/30fps					1280 x 720, 1024 x 768, 800 x 600, 720 x 480, 640 x 480, 352 x 240 @ 25/30fps
Day/Night	TDN	TDN	TDN	TDN	TDN	--
WDR	WDR	WDR	WDR	WDR	WDR	WDR
IR Distance	-	30 - 40m	-	10 - 20m	15m	--
Video Encoder	H.264 HP, MJPEG	H.264 HP, MJPEG	H.264 HP, MJPEG	H.264 HP, MJPEG	H.264 HP, MJPEG	H.264 (x3), H.264/MJPEG
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
PoE	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af	IEEE 802.3af
Protection Class	-	IP66	-	-	IP66, IK10	--

Model	HICC-1300W	HIDC-1300V	HIDC-1300W	HIVDC-1300W	HITC-P-2100	HITC-P-2100W
						
Image Sensor	1/3" Progressive Scan Megapixel CMOS Sensor	1/3" Megapixel CMOS	1/3" Megapixel CMOS	1/3" Megapixel CMOS	Sony 2M Exmor	
Effective Pixels	1280 x 720 pixels	1280 x 720 pixels	1280 x 720 pixels	1280 x 720 pixels	607 x 1080 or 1080 x 1920 pixels	
Lens		2.8 - 12mm vari-focal	2.8 - 12mm vari-focal	2.8 - 12mm vari-focal	4.2mm	
Min Illumination	0.05 Lux	0.5 Lux	0.05 Lux	0.05 Lux	0 Lux (IR ON)	
Resolution	Main stream: 1280x720 @ 25fps Extra stream: 640x480; 320x240; 160x112 @ 25 fps				2 Megapixel mode: 1600 x 1200 @ 15fps 720P HD mode: 1280 x 720 @ 25fps	
Day/Night	SDN	-	SDN	SDN	TDN	TDN
WDR	On/Off	-	On/Off	On/Off	-	-
IR Distance	-	-	-	-	IR LED	IR LED
Video Encoder	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MPEG-4, MJPEG	
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF	ONVIF
PoE	-	IEEE 802.3af	-	IEEE 802.3af	IEEE 802.3af	-
Protection Class	-	IP66	-	IP65	-	-




IP Speed Dome - 1080P

Model	HISD-2201WE	HISD-2201WE-IR	HISD-2201W	All-in-One Cameras	
				HIPTZ-2201W	HIPTZ-2201W-IR
					
Image Sensor	1/3" CMOS	1/3" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective Pixels	1920 x 1080	1920 x 1080	1920 x 1080	2096 x 1097	2096 x 1097
Min Illumination	"Color: 0.15 Lux B/W: 0.01 Lux"	"Color: 0.15 Lux B/W: 0 Lux (IR ON)"	0.005 Lux	0.04 Lux	0 Lux (IR ON)
Resolution	1920 x 1080	1920 x 1080	1920x1080, 1280x720, 640x480, 320x240, 160x112 @ 25/30fps	1920x1080, 1280x720, 640x480, 320x240, 160x112 @ 25/30fps	1920x1080, 1280x720, 640x480, 320x240, 160x112 @ 25/30fps
Day/Night	SDN	SDN	TDN	TDN	TDN
WDR	WDR	WDR	On/Off	On/Off	On/Off
Video Encoder	H.264 (HP, MP, BL), MJPEG	H.264 (HP, MP, BL), MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Pan	0 - 360° continuous 0.1° - 300°/s	0 - 360° continuous 0.1° - 150°/s	0 - 360° continuous 0.1 - 300°/sec	0 - 360° continuous 0.5° - 80°/sec	0 - 360° continuous 0.5° - 100°/sec
Tilt	0 - 90°	0 - 90°	0 - 90°; 0.1 - 120°/sec	-60° to 45°; 0.5° - 60°/sec	-90° to 40° at 0.5° - 60°/sec
Zoom	20X	20X	20x	20x	20x
IR Distance	---	100m	-	-	200m
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Protection Class	IP66, IK-10	IP66	IP66	IP66	IP67



IP Speed Dome - 720P

Model	HISD-1301WE	HISD-1301WE-IR	HISD-1181W	All-in-One Cameras	
				HIPTZ-1181W	HIPTZ-1181W-IR
					
Image Sensor	1/4", PS CMOS	1/4", PS CMOS	1/3" CCD	1/3" CCD	1/3" CCD
Effective Pixels	1329 x 1049	1329 x 1049	1280 x 720	1280 x 720	1280 x 720
Min Illumination	Color: 0.15 Lux B/W: 0.01 Lux	Color: 0.15 Lux B/W: 0 Lux (IR ON)	0.005 Lux	0.02 Lux	0 Lux (IR ON)
Resolution	1.3M / 720P	1.3M / 720P	1280x720 @ 25fps, 640x480, 320x240, 160x112 @ 25fps	1280x720, 640x480, 320x240, 160x112 @ 25/30fps	1280x720, 640x480, 320x240, 160x112 @ 25/30fps
Day/Night	SDN	SDN	TDN	TDN	TDN
WDR	WDR	WDR	On/Off	On/Off	On/Off
Video Encoder	H.264 (HP, MP, BL), MJPEG	H.264 (HP, MP, BL), MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Pan	0 - 360° continuous 0.1° - 300°/s	0 - 360° continuous 0.1° - 150°/s	0 - 360° continuous 0.1 - 300°/sec	0 - 360° continuous 0.5° - 80°/sec	0 - 360° continuous 0.5° - 100°/sec
Tilt	0 - 90°	0 - 90°	0 - 90°; 0.1 - 120°/sec	-60° to 45°; 0.5° - 60°/sec	-90° to 40° at 0.5° - 60°/sec
Zoom	30X	30X	18x	18x	18x
IR Distance	---	100m	-	-	200m
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Protection Class	IP66, IK-10	IP66	IP66	IP66	IP67

IP Speed Dome - D1

Model	HSD-261P-NET	HSD-361PW-NET	All-in-One Cameras
			HIPTZ-0361W
			
Image Sensor	1/4" Ex-view HAD CCD	1/4" Ex-view HAD CCD	1/4" CCD
Effective Pixels	704 x 576	704 x 582	704 x 576
Min Illumination	0.01 Lux	0.01 Lux	0.01 Lux
Resolution	704 x 576, 352 x 288, 176 x 144 @ 25fps	704 x 576, 352 x 288, 176 x 144 @ 25fps	704x576, 640x480, 320x240, 160x112 @ 25/30fps
Day/Night	TDN	TDN	TDN
WDR	-	-	On/Off
Video Encoder	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Pan	0 - 360° continuous 0.1 - 300°/sec	0 - 360° continuous 0.1 - 300°/sec	0 - 360° continuous 0.5° - 80°/sec
Tilt	0 - 90°; 0.1 - 120°/sec	0 - 90°; 0.1 - 120°/sec	-60° to 45°; 0.5° - 60°/sec
Zoom	26x	36x	36x
IR Distance	-	-	-
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Protection Class	IP66	IP66	IP66

Explosion-Proof Cameras - 1080P

Model	HEICC-2301T	HEIPTZ-2201W-IR	
			
Certification	ATEX II 2 GD; Exd IIC T6 Gb, Ex t IIIC T80°C Db	ATEX II 2 GD; Exd IIC T6 Gb, Ex t IIIC T80°C Db	
Construction	Stainless steel 316L	Stainless steel 316L	
Viewing Window	High intensity filming tempered glass	Double-sided Nano filming tempered glass	
Protection Class	IP68 waterproof	IP68 waterproof	
Operating Temp	-40°C - 60°C	-40°C - 60°C	
Image Sensor	1/3" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	
Effective Pixels	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	
Min. Illumination	Color: 0.1 Lux B/W: 0.001 Lux	Color: 0.1 Lux B/W: 0.005 Lux; 0 Lux (B/W, IR on)	
Resolution	1920x1080 @ 25/30fps	1920 x 1080 @ 25/30fps	
Day/Night	TDN	TDN	
WDR	-	On/Off	
Video Encoder	H.264, MJPEG	H.264, MJPEG	
Pan	-	0 - 360° continuous; 0.01° to 30°/sec	
Tilt	-	-90° - 90°; 0.01° to 30°/sec	
Zoom	-	20X	
IR	-	80m reachable	
ONVIF	ONVIF Profile S	ONVIF Profile S	

Note: Honeywell reserves the right, without notification, to make changes in product designs and specifications.

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