

## HUS-NVR

### INTEGRATED NETWORK VIDEO RECORDER (NVR)

Honeywell HUS-NVR is a powerful and integrated Network Video Recorder which intelligently satisfies any demanding surveillance requirements. Key features of this multi-functional recorder include video recording, storage, streaming relay and playback. As a comprehensive integrated unit, the HUS-NVR is a more cost-efficient and maintenance-saving security solution compared to other standalone video storage devices on the markets.

The HUS-NVR manages live video recordings efficiently which reduces security protection risk and enhances overall safety to any valuable assets. For higher level security solution, the HUS-NVR can be connected to Honeywell HUS security management platform and a wide range of IP video devices to deliver customers an advanced IP surveillance solution. When using the HUS-NVR with Enterprise IP solution management server (HUS-VMS), real-time security management can be linked directly to any monitoring site in the system for recording and playback video. Equipped with multiple adaptors, the HUS-NVR can be interfaced with Honeywell video encoders, decoders, IP cameras, Megapixel cameras, high definition IP cameras and high definition video servers.

One HUS-NVR unit supports up to 128 channels at full frame rate with D1 resolution recording, as well as playback or relay with up to 40 channels video streaming simultaneously. The storage capability of the HUS-NVR is powerful and flexible. Users can select the storage expansion chassis of HUS-NVR which supports 16 bays hard disk installation. Maximum storage expandable capacity of one HUS-NVR is up to 48 bays with 2 storage expansion chassis.

Advanced video streaming technology is adopted in the HUS-NVR to improve overall price/performance ratio. Optimized video data stream controlling provides smooth video recording even at low bandwidth. The HUS-NVR ensures the best use of network resources to establish a reliable and contemporary surveillance system.

#### Market Opportunities

The IP surveillance market is growing with increased demand moving from standard resolution display to high definition video surveillance solution, and is a fast return on investment to generate incremental revenues in various verticals spread across different regions. Necessity of real time data, costs reduction and flexibility of IP surveillance system are driving more opportunities.

The HUS-NVR effectively provides the scalability and operational power to address the needs of a wide variety of applications, including government and homeland security, telecommunication sites, transportation, industry, large scale city surveillance, energy and environment control field, and other critical infrastructure applications.



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#### FEATURES

- Support up to 340Mbps data throughput, recommend configuration as 128 channels recording and 40 channels playback or relay with D1 resolution at real time simultaneously
- Built-in standalone server with 16 hard disk bays, capable of continuous 24x7 video recording
- Support multi front end solution, including H.264, MPEG-4, MPEG2 and MJPEG formats
- Complete fail-over solution provided by N+1 redundancy system design
- One standard storage unit supports up to 32TB, expansion total storage up to 96TB
- Hot swappable hard disk for easy maintenance and high availability
- Recommend certified enterprise class hard disk for high reliability
- Continuous, scheduled, motion and alarm triggered recording support
- Quick video record search by date, time, alarm event, channel number

#### SPECIFICATIONS

Model	HUS-NVR-5100A	HUS-NVR-EC16
<b>System Capability</b>		
System Unit	340Mbps data throughput, recommend configuration 128 channels recording + 40 channels playback / relay with D1 resolution at real time	
Processor	Intel Dual-Core Processor 2.93GHz	-
Memory	4GB	-
System HDD	Enterprise Class 3.5" SATA 750GB 7200 (RPM) 16MB cache	-
Network	2 Gigabit Ethernet RJ-45 Ports	-
RAID Controller	LSI MegaRAID SAS 8888ELP (3Gb/s per port)	
IOPS	140,000 (Input / Outputs Per Second)	
Health Monitoring	Failure / Error / Overload	
Hardware Redundancy	Redundant Power Supply and Fan Module (2 x PFC)	
<b>Recording</b>		
IP Input Support	Up to 128 channels D1 resolution full frame recording	
Video Compression	H.264, MPEG4, MPEG2, MJPEG	
Video Resolution	1080P / 720P / Megapixel / D1 / 4CIF / CIF	
Frame Rate	Maximum 25 fps (PAL) / 30 fps (NTSC), support variable frame rate setting	
Audio	G.711	
Recording Mode	Schedule / Manual / Event or Alarm Trigger	
<b>Search</b>		
Search Mode	Date and Time / Device Name / Channel / Alarm and Event	

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Model	HUS-NVR-5100A	HUS-NVR-EC16
<b>Storage</b>		
Standard Storage	16 bays	
Storage Expansion	Up to 48 bays with 2 expansion chassis	
RAID Level	RAID 0, 1, 5, 6, 10, 50, 60	
Storage Management	Hot swappable module; Easy for cluster expansion; Multi-tiered architecture; Supports quota management ;Multiple Protocol Support: iSCSI, CIFS, NFS; Mixture of SAS/SATA hard drives in enclosure; Volume Snapshot with rollback and copy; SNMP / Email alert notification	
Expansion interface	Mini SAS, supporting SAS/SATA II Hard Disk	
<b>Dimensions</b>		
W x H x D (mm)	482 x 133 x 700 (3U)	485 x 133 x 457 (3U)
Weight	22 kg (not include HDD)	14 kg (not include HDD)
<b>Power</b>		
Power Input	100~240VAC, 50/60Hz	100~240VAC, 50/60Hz
Power Consumption	2 x 350W	2 x 300W
<b>Environmental</b>		
Temperature	Operating 10°C ~ 35°C, Storage -40°C ~ 65°C	
Relative Humidity	Operating 10% ~ 85%, Storage 10% ~ 95% , non-condensing	
<b>Regulatory</b>		
Certification	CE, FCC, CCC	CE, FCC

### ORDERING

HUS-NVR-5100A	HUS XPRO Network Video Recording System: data throughput up to 340Mbps simultaneity, recommend configuration:128 channels recording and 40 channels playback / relay with D1 resolution at real time, supporting 16 bays hard disk installation. (hard disk excluded)
HUS-NVR-EC16	HUS XPRO Network Video Recording Storage Expansion Chassis, supporting 16 bays hard disk installation. (hard disk excluded)
HUS-HDD-1TB	Enterprise Class Drive Storage Hard disk: 1TB
HUS-HDD-2TB	Enterprise Class Drive Storage Hard disk: 2TB

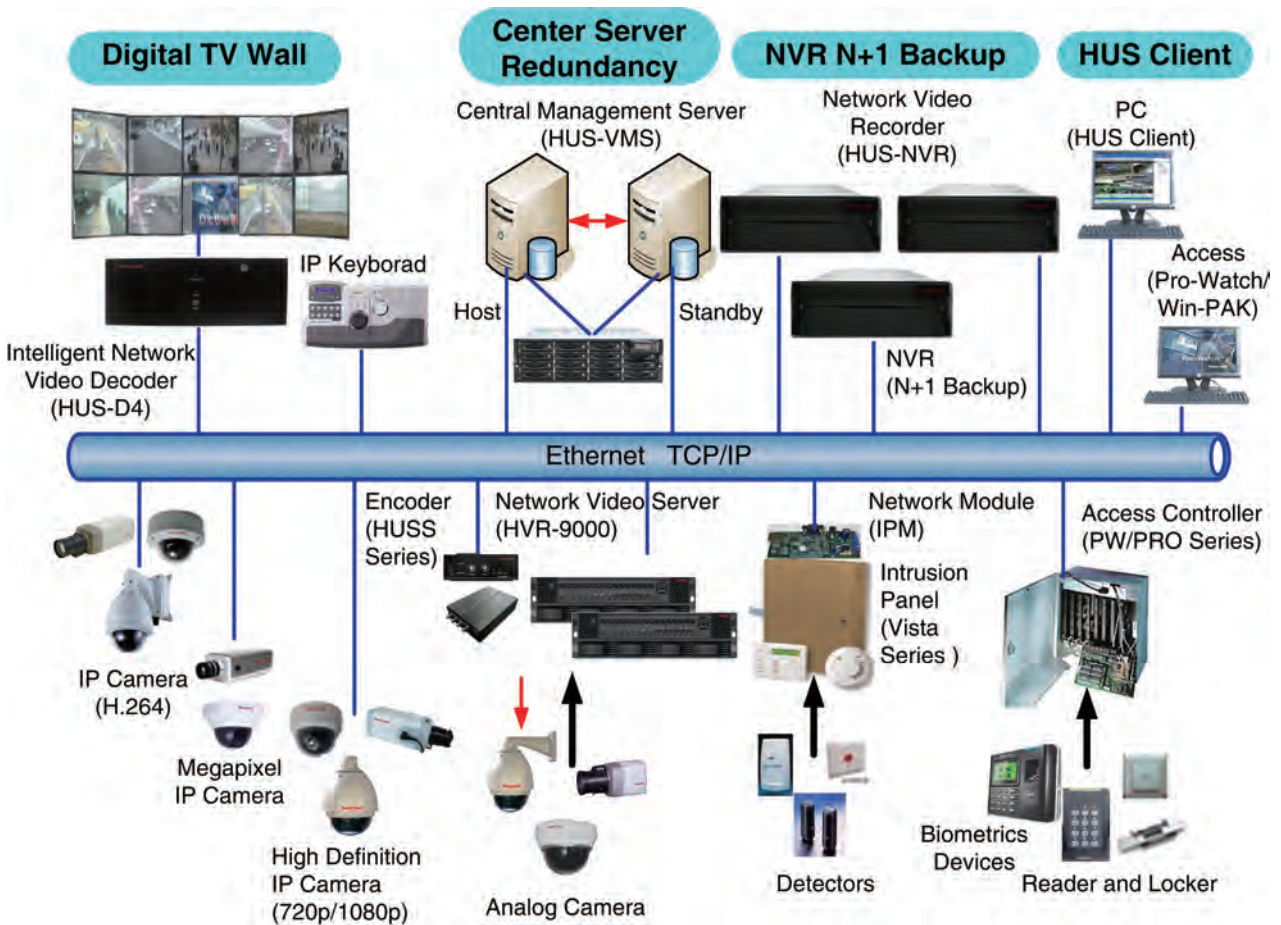
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### SYSTEM DIAGRAM

The HUS-NVR represents the network-based video recording system for the future. It seamlessly integrates with Honeywell security products. When combined with Honeywell's HUS-Client work station and network keyboard HJC5000 and digital decoder HUS-D4, it creates a secure and reliable IP surveillance solution.



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Aug 2011  
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