

HUS-VMS

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ENTERPRISE IP SOLUTION MANAGEMENT SERVER

The HUS-VMS is an all-inclusive enterprise IP solution management server developed by Honeywell. IP Surveillance System is an essential component for enterprises to perform professional security monitoring and recording to protect their properties. Using IP network for data transmission eliminates the need of proprietary boxes resulting in cost reduction in system deployment and management. Honeywell IP Surveillance Solution allows local and remote control on any surveillance monitoring site from mid-range applications with several hundreds of cameras, to even the large scale ones equipped with more than ten thousand. Designed to escalate surveillance mobility and flexibility, video data can be shared and transferred to different sites. To extend a complete IP-based and centralized security system, the HUS-VMS can be integrated with various Honeywell security products including high definition IP cameras, network video recorder (HUS-NVR), video streaming server supporting with Network Failure Recovery (HVR-9000), reputable worldwide access control systems Pro-Watch® and WIN-PAK®, as well as intrusion system VISTA.

Reasons for adopting Honeywell IP Surveillance applications are clear to any organization who is looking for professional security solutions. By applying with other Honeywell IP surveillance products such as HUS-NVR, HUS-Client, network keyboard HJC5000 and HUS-D4 decoder, the HUS-VMS gives additional benefits of surveillance functions that include:

- Compliance with ONVIF™ Global Standard
- High Reliability by Hot Redundancy and Standby
- 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

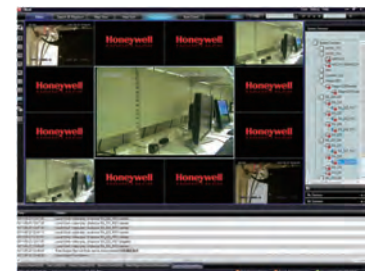
The HUS-VMS server operates based on Windows® server operating system which composes of full HUS management software and hardware.

Market Opportunities

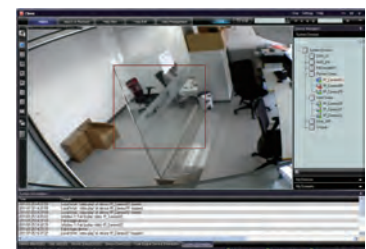
Deploying the HUS-VMS IP Surveillance Solution is an ideal application for facilities that require critical infrastructure protection such as city surveillance, airports, seaports, large multi-site commercial buildings and other high-end facilities. It is also a perfect video management solution for locations that require centralized management of both digital and analog systems with access control and intrusion system integration.



Alternative view



Surround video



Digital zoom



Playback digital zoom

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BENEFITS

Powerful Emergency Response

- Quickly locate emergency sites with icon flashing on E-Map
- Rules Engine drives proper response to various threaten situations
- Powerful management system to link video, intrusion and access information for actions across the entire security system when emergency happens

Superb Integration Capability

- 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

Utmost Efficiency

- Immediate access to live and playback video on any screen upon needed
- Quick and effective alarm / event notification and verification process
- Automatic live video pop up on E-map when alarm / event trigger

High Reliability

- 24/7/365 stable system operation
- Hardware and software are strictly qualified and verified by Honeywell
- Honeywell network designed for recommendation

High Availability

- Hot standby redundancy for HUS-VMS management server
- Core service module support with N+1 hot backup
- Encoder network failure recovery available (NFR with HVR-9000)

Full Scalability

- Support unlimited number of cameras, clients and devices
- Support 256 level privileges definition for different users
- Support multi-level / multi-site / multi-database connection

Low Cost Ownership

- Compliance with ONVIF global standardization for IP devices interoperability
- High profile H.264 to make the best use of network and storage resources
- Optimized network resources usage with levels of video service, multicast and dual streaming

Simple Operation

- CCTV IP keyboard for full range control of live view and PTZ tracking
- Unified client operation interface to ease users' every access in need
- Intuitive and clear multi-window display for processing at the first time

Easy Management

- Web accessible configuration provides unified access to all devices in the system
- Devices classified and status monitoring in groups for easy management
- Ready-to-use product with system software pre-installed

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FEATURES

As the central management of Honeywell IP Solution, the HUS-VMS accelerates the primary security processes of event detection, verification and investigation adaptable to different tasks through an integrated bundle of functions.

Video Management

- Manage live video from IP cameras and video encoders to display on any client or video wall
- Manage video streaming from IP cameras and video encoders to NVR / IP SAN
- Record searching by time, camera number, event, devices or complex conditions
- Archive evidence at local storage / central storage / remote site
- Virtual matrix operation with CCTV IP keyboards or client workstations
- Live view, record and playback video synchronized with audio
- Surrounding view supports one camera as key view and 12 related cameras as supplementary
- Alternative view to bind two cameras together to be backup view for each other
- Digital zoom in/out support with both live view and historical video record view
- Instant playback historical video record for past 30 seconds from live view window directly
- Different playback mode: 8 / 16 / 32 / 64x, frame by frame, backward playback
- Accelerate investigation with agile replay controls: play & pause & shuttle
- Snapshot video image for immediate action output files
- Configurable tours and patrols on workstation monitors or video walls

Intrusion and Access System Integration

- Uniform interface to configure and manage video, intrusion and access systems
- Standard processing events and interactions across video, intrusion and access systems
- Monitor device status icon and live video pop up when alarm/event trigger

Event Management

- Events classified by types and security levels for easy searching
- Events can be managed according to status to ensure proper handling
- Event notifications at different security levels can be easily identified by different colors

Rules Engine Management

- Build the most complicated preplans according to customers' different needs
- Drive workflow and enable operator to confirm critical tasks by automatic checklist display
- Automatically execute corresponding response at different situations e.g. email notification

E-Map System

- Allocate event accurately on the map with video verification
- Navigate complex sites to get video live view rapidly wherever needed
- Support GIS, BMP, JPEG, Common Image and Auto CAD format map import
- Support multi-layer E-map navigation and nesting application
- Alarm / event trigger up to 4 live videos for verification

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FEATURES

User Management

- Access privilege to system resources can be controlled individually by user or user group
- Manage user privileges one at a time or through common profiles
- Customized user preferences interface and restore last scenario when user log in
- Allow or block camera viewing, searching, replay and data export
- Actions from log-in to different operations can be audited and reported to enable high level security management

System Configuration and Maintenance

- Maintain database of system functions including error, alarms, user actions and reporting
- Support device discovery for searching undefined devices and configuring into HUS
- Continuously monitor system health status of key system components: Servers, NVRs, encoders, decoders, IP cameras, sub-systems and databases with notification to users immediately when abnormal situation is detected.

SPECIFICATIONS

Model	HUS-VMS-MAS	HUS-VMS-SLA	HUS-VMS-RPK
System Capacity			
Server	Dell PowerEdge Server		Dell PowerEdge Server x 2
Processor	Quad-Core Intel Xeon 3400 Series Processors		
Memory	4GB		
Operating System	Windows Server 2008 Standard 64 bit, SQL Server 2005 Standard	Windows Server 2008 Standard 64 bit	Windows Server 2008 Enterprise 64 bit, SQL Server 2005 Enterprise
Hard Disk	3.5" SATA (7200 RPM):250GB		Storage disk array with 2 SAS RAID controller
Network	2 Gigabit Ethernet RJ-45 Ports		
Front Side Bus	Up to 1333MHz		
Cache	Up to 8MB		
Drive Bays	Up to 4 x 3.5" hot-swappable SAS or SATA drives		
Dimensions			
W x H x D (mm)	434 x42.4 x 610 (1U)		2 servers (2U) + 1 disk array (3U)
Weight	15 kg		54 kg (total)
Power			
Power Input	100~240VAC, 50/60Hz		
Power Consumption	350 W		1200W (total)
Environmental			
Temperature	Operating 10°C ~ 35°C, Storage -40°C ~ 65°C		
Relative Humidity	Operating 10% ~ 85%, Storage 10% ~ 95% , non-condensing		
Regulatory			
Certification	CE, FCC, UL, CCC		

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ORDERING

Central Management Hardware	
HUS-VMS-MAS	HUS XPRO Central Management Master Server: Includes PC server, operating system, database, HUS XPRO software. License covers 300 video channels and 20 clients
HUS-VMS-SLA	HUS XPRO Central Management Slave Server: Includes PC server, operating system, HUS XPRO software. License covers 300 video channels and 20 clients
HUS-VMS-RPK	HUS XPRO Central Management Server Redundancy Package: Includes 2 PC servers, Windows server enterprise, SQL server enterprise, SAS card and disk array
Optional License Software Package	
HUS-VMS-VEX	HUS XPRO Video Extension Package: IP video channel extension package, each package supports additional 100 channels IP video
HUS-VMS-INT	HUS XPRO Intrusion Extension Package: Intrusion zone extension package, each package supports additional 128 alarm zones
HUS-VMS-ACS	HUS XPRO Access Extension Package: Access control reader extension package, each package supports additional 64 readers
HUS-CLIENT	HUS XPRO Client Extension Package: Client extension package, each package supports 5 additional client licenses
HUS-VMS-IVA	HUS XPRO Intelligent Video Analysis Package: Intelligent video analytics extension package, each package supports additional 10 channels video analytics (hardware devices excluded)
HUS-NVR-RDN	HUS-NVR N+1 Redundancy Package: HUS-NVR N+1 hot standby redundancy license (hardware devices excluded)

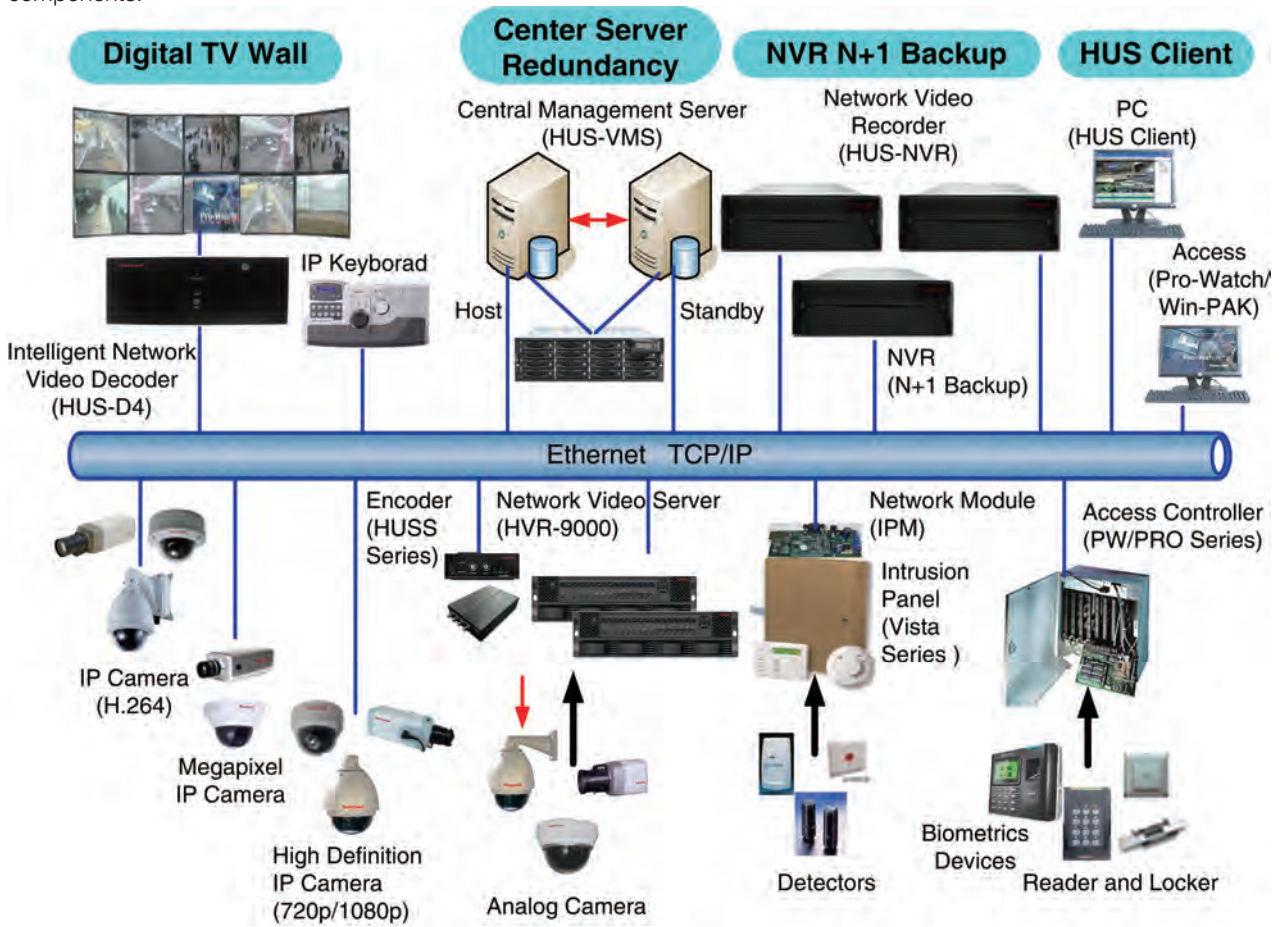
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SYSTEM DIAGRAM

The following diagram illustrates the Honeywell IP Surveillance System architecture built with the HUS-VMS and associated components.



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