

Systems and System Accessories

Honeywell understands that large, complex projects require advanced and scalable surveillance systems that are equipped to handle numerous channels of analog and digital video streams. Honeywell's Systems and System Accessories include IP networked video systems and analog matrix switches, as well as keyboards, controllers and graphic user interfaces that help operators manage these systems. As more companies transition to digital video and upgrade their surveillance capabilities, Honeywell is committed to continuing its investment in developing innovative IP and networked technologies.

THIS SECTION INCLUDES:

IP Solutions: Network Video Systems

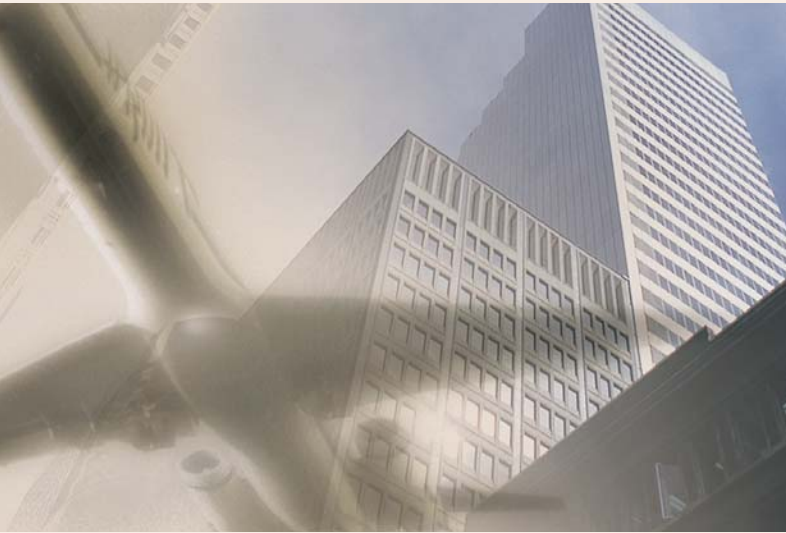
Matrix Switching Systems

Keyboards

Controllers

Accessories

Systems and System Accessories



We understand large projects—like casinos, airports, industrial, correctional facilities, and enterprise corporate sites—and the special challenges they present. Our systems and system accessories provide you with the advanced features, functionality, and flexible configurations that these environments require, while ensuring they are easy-to-install, easy-to-use and cost-effective.

Benefits:

- Enables management and processing of larger environments with numerous cameras and/or with multiple users
- Leverages standard IP networks for system communication
- Modular system, that allow scalability and expandability
- Adds intelligence and processing capabilities



IP SOLUTIONS: NETWORK VIDEO SYSTEMS

Honeywell's IP solutions include a range of software and hardware solutions that enable users to design a robust enterprise class video management system to meet a wide variety of requirements. The IP solutions include Honeywell's Digital Video Manager and Enterprise Network Video Recorders, which are both used in some of the world's largest digital systems.

Digital Video Manager (DVM)

Honeywell's Digital Video Manager is a distributed IP-based video management system leveraging standard IP networks. It is a stand-alone system that is also integrated into Honeywell's Pro-Watch access control software as well as other third party systems.

- Uses commercial off-the-shelf (COTS) Intel and Windows® based PC systems for scalability
- Microsoft SQL server – uses standard database software to enable tracking of all video clips, system events and settings
- Intelligent Recording – allows for scheduled, event, operator initiated, and motion detection triggered recording
- Advanced Video Intelligence Software – enables intelligent outdoor motion detection, object tracking, and object classification
- Scalability – enables 1 to thousands of cameras
- Internet Explorer (IE) Clients – allows any computer with IE to be a client
- Supports a wide range of IP cameras and digital encoders



For ordering information contact Applications Engineering at 1-800-796-2288.

HNVE130A

Single Channel Network Video Encoder

Honeywell's Network Video Encoder (HNVE130A) is the ideal real-time, high resolution digital encoder using MPEG-4 up to full D1 resolution for upgrading existing analog video systems to a networked IP video solution. This is an integral component to Honeywell's Digital Video Manager (DVM).

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HD6 VIP Series

The HD6 VIP Series takes the HD6 PTZ dome and adds a TCP/IP digital video interface. The integration with Honeywell's Digital Video Manager (DVM) permits system-wide digital integration of video from remote locations. This product is perfect for customers looking for a high-quality video PTZ dome with a TCP/IP digital interface.

For more information see PTZ Domes on page 51.



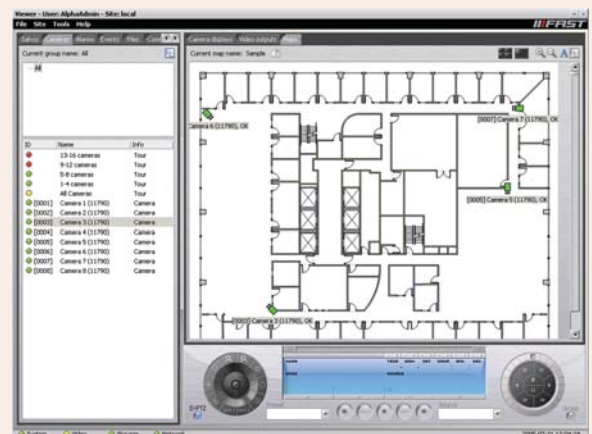
Enterprise NVR Series System

Enterprise Class Digital Recording System

Honeywell's Enterprise Network Video Recording (NVR) Series delivers power and flexibility.

- High Quality Video – MPEG-2 scalable for up to 32 channels of real-time and/or 4CIF digital encoding/video streams
- IP network based video transmission
- Simultaneous live viewing, recording, playback, archiving, and audio recording
- Scalability – enables up to thousands of cameras with high availability of continuous video recordings
- Secure user access and file system to prevent unauthorized access to system and video data
- Intelligent Recording – allows for scheduled, event, operator initiated, and motion detection triggered recording
- Integrates with Honeywell MAXPRO-Net and VideoBloX switches for hybrid systems
- Capability to create virtual digital video switch including alarm handling, mapping and PTZ control
- The Enterprise NVR technology is used in some of the world's largest digital video surveillance systems

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Digital IP Video Recorders Comparison Chart

	Enterprise NVR	DVM
# of Video Channels	1 - Thousands	1 - Thousands
# of Audio Channels	1 Per Video	Up to 1 Per Channel Depending on IP Video Source
Monitor Outputs	Unlimited	Unlimited
IPS Live / Recorded	Up to 30fps/30fps	Up to 30fps/30fps
Recording Resolution	Up to 4CIF	Up to 4CIF
Compression	MPEG-2	MJPEG, MPEG-2, or MPEG-4
Gigabytes	Unlimited	Unlimited
Operating System	Windows® 2000 Professional	Windows® 2000 Professional Windows® 2003 Server
Remote Users / Streams	Unlimited	Unlimited
Alarm Inputs / Outputs	1 Per Video Channel	Dependent on Video Source
Video Analytics	Outdoor Motion Detection	Outdoor Motion Detection Object Tracking and Classification Abandoned Object Detection

MATRIX SWITCHING SYSTEMS

Matrix switches are video managing devices that allow the switching of cameras and other video inputs to outputs, including monitors and recording devices. Switches can be used in large and small applications where numerous cameras, PTZ domes, monitors, DVRs and other CCTV peripherals are managed – whether in various locations and/or by multiple users.

Honeywell is a global leader in matrix switch development and offers two established families of matrix switches: the MAX Series and the VideoBloX Series.



miniMAX **miniMAX Matrix Packages**

Honeywell's *miniMAX* Matrix Series is a smaller scale MAX switch that offers a comprehensive array of competitively priced, pre-packaged video matrices suitable for many small-to-medium sized video applications. For added convenience, every *miniMAX* is shipped with pre-loaded software allowing the user to easily make programming changes from any PC. Logical camera selection simplifies the installation process by eliminating the need to memorize camera numbers.

- Pre-configured packages of 32 to 320 inputs, and 8 to 32 outputs
- Intuitive configuration wizards for easy install and operation
- External CPU with hard drive and 8 serial ports
- ON-screen menu from any system monitor
- Quality text on all outputs
- Multiple PTZ protocols supported without code translators
- Camera fail and video loss detection
- Optional alarm and relay interface
- Optional peripheral device control
- Optional high level interface to digital video recorders
- Supports both Honeywell's HEGS5300 and UltraKey programmable keyboards, plus MAX graphics platform
- Can be expanded into full MAXPRO-Net system

Refer to ordering information on page 129.

Systems & System Accessories

MATRIX
SWITCHING
SYSTEMS

miniMAX

Inputs	Outputs	Chassis	Part Number	Bar Code
32	8	12 RU	HMX0320800T	 7 81410 79225 8
		12 RU, Looping	HMX0320800L	 7 81410 79224 1
48	8	12 RU	HMX0480800T	 7 81410 79227 2
		12 RU, Looping	HMX0480800L	 7 81410 79226 5
64	8	12 RU	HMX0640800T	 7 81410 79229 6
		12 RU, Looping	HMX0640800L	 7 81410 79228 9
96	16	12 RU	HMX0961600T	 7 81410 79231 9
		12 RU, Looping	HMX0961600L	 7 81410 79230 2
128	16	12 RU	HMX1281600T	 7 81410 79234 0
		12 RU, Looping	HMX1281600L	 7 81410 79233 3
192	24	18 RU	HMX1922400T	 7 81410 79239 5
		18 RU, Looping	HMX1922400L	 7 81410 79238 8
256	32	24 RU	HMX2563200T	 7 81410 79242 5
		24 RU, Looping	HMX2563200L	 7 81410 79241 8
320	32	24 RU	HMX3203200T	 7 81410 79244 9
		24 RU, Looping	HMX3203200L	 7 81410 79243 2

MAXPRO-Net

Honeywell's MAXPRO-Net system is an intelligent, highly expandable, closed circuit television (CCTV) management system. With unparalleled flexibility and reliability, the MAXPRO-Net is well suited for analog matrix environments that require interfacing with digital networking video recorders.

- Up to 4,096 inputs and 256 outputs in a single node—up to 10 nodes
- Honeywell UltraKey support over Ethernet
- Remote monitoring and configuration over Ethernet
- Remote control to satellite matrix switches
- Alarm outputs and PTZ control
- Local or remote configuration updates
- High-level interface for integration with third party switchers, digital recording equipment, access control, and alarm management systems
- Modular system allows installation of as much equipment as initially required. System expansion is easily accomplished and initial investment protected.
- MAXPRO-Net CPU controls both MAX and VideoBloX matrix switch hardware and is shipped ready to manage any size system.



For ordering information contact Applications Engineering at 1-800-796-2288.



VideoBloX Lite

The VideoBloX Lite Series is a smaller, pre-configured version of the VideoBloX matrix system offering high quality images and near broadcast performance for up to 96 video inputs and 8 video outputs. Since the entire system is designed on a modular approach, users can configure their systems to suit a wide variety of applications.

- High density design occupies smaller rack space with fewer interconnects
- Embedded CPU controller ensures greater reliability and greater efficiency than PC-based switchers
- Plug and play, hot swappable modules minimize downtime and maintenance
- Durable, high-grade stainless steel construction offers excellent grounding capabilities and noise reduction
- Protocol Interface Translators provide control to Honeywell as well as most other manufacturers' PTZ domes, DVRs, and multiplexers
- Optional Twisted Pair (UTP) input modules channel video signals over greater distances
- Optional high level interface to digital video recorders

Refer to VideoBloX Lite ordering chart on page 132.



VideoBloX

Full Crosspoint Matrix Switch System

VideoBloX is a fully featured, high capacity matrix switch with an embedded CPU control system for video, CCTV peripherals and alarms. VideoBloX fits applications where larger numbers of outputs are needed, and is easy to scale to greater outputs. VideoBloX is also unique in offering a high density, compact design that requires smaller rack space than competitive systems.

- Plug and play, independent modular system
- Create systems as large as 4,080 video inputs and 256 outputs with a single embedded CPU
- Compatible with Honeywell and most manufacturers' PTZ domes, DVRs, and multiplexers
- Stainless steel fabrication provides excellent grounding and heat dissipation

For ordering information contact Applications Engineering at 1-800-796-2288.

VideoBloX Lite Ordering Chart

Inputs	Outputs	Chassis	Part Number	Bar Code
16	8	2U	HVBLT2U16X8	 7 81410 79254 8
		2U, Looping	HVBLT2U16X8L	 7 81410 77793 4
		4U	HVBLT4U16X8	 7 81410 79256 2
		4U, Looping	HVBLT4U16X8L	 7 81410 77794 1
32	8	2U	HVBLT2U32X8	 7 81410 79255 5
		4U	HVBLT4U32X8	 7 81410 79257 9
		4U, Looping	HVBLT4U32X8L	 7 81410 77791 0
48	8	4U	HVBLT4U48X8	 7 81410 77905 1
		4U, Looping	HVBLT4U48X8L	 7 81410 77796 5
64	8	4U	HVBLT4U64X8	 7 81410 77931 0
80	8	4U	HVBLT4U80X8	 7 81410 79258 6
96	8	4U	HVBLT4U96X8	 7 81410 79259 3

Systems & System Accessories

MATRIX SWITCHING SYSTEMS

HSX3208L

Small Scale Looping Matrix Switcher

The HSX3208L is a small-scale looping video matrix for simpler applications, such as convenience stores, small office buildings or schools. The HSX3208L allows a single operator to easily manage a CCTV system consisting of up to 32 video inputs and 8 video outputs. The video inputs can include fixed cameras, dome cameras and pan/tilts. The video outputs can include up to 8 monitors, VCRs, or video alarm accessories.



- 32 looping camera inputs, 8 outputs
- 8 operator profiles
- 32 potential free alarm inputs
- User programmable macros
- Separate logins for operators and master user

ALSO AVAILABLE:

HEGS5000

Controller

Refer to page 135.

ADI Ordering Information



HSX3208L



HEGS5000

HMAX082-US and HMAX162-US

MaxCom Gold Matrix Switcher and Keyboard Controller

The MaxCom Gold Series of matrix switchers and keyboard represents the most cost-effective solution for CCTV systems with up to 16 cameras available. Ease-of-use and comprehensive dome control are just two elements of the system's strengths while delivering exceptional levels of performance into any smaller scale CCTV system.



HMAX162-US



HMAX082-US

- 16 camera inputs, 2 monitor outputs or 8 camera inputs, 2 monitor outputs
- 16 alarm inputs
- Twisted pair and coaxial telemetry control
- 2 operator profiles
- Up to 2 HKJMMTP keyboards



HKJMMTP

KSS08T1U

Video Auto Switcher

The KSS08T1U is a low cost, desktop video auto switcher that allows up to 8 video inputs from cameras, multiplexers or DVRs to be displayed sequentially to a single video output monitor, DVR or other output device.



KSS08T1U



KEYBOARDS

Keyboards are a critical component of the matrix switching system, enabling better control, ease-of-use, and access to all the functionality of the matrix switch systems.

ADI Ordering Information



HEGSA002 UltraKey Matrix System Programmable Keyboard with LCD Touch Screen Display

UltraKey is a fully programmable keyboard controller with touch screen LCD that offers unparalleled control and ease-of-use to reduce training requirements and improves operator efficiency and response times. UltraKey allows operators to fully customize direct control and selection of any function within the CCTV management system.

- Fully programmable with customized menus
- PTZ joystick with integral zoom and jog/shuttle control
- 320x240 backlit LCD touch screen
- RS-422, RS-485 and Ethernet interface options
- MAX and Honeywell NVR compatibility



HEGS5300 Keyboard for MAX and miniMAX Matrix Systems

The HEGS5300 is a fully programmable, keyboard with a three dimensional joystick for MAX-1000 and miniMAX control.

- 101 fully programmable keys
- Three-dimensional, rate-proportional joystick
- 1-99 keyboard IDs available
- RS-232 connection to MAX
- Custom overlays for improved ease-of-use
- LCD display for menu set up and improved control
- Universal power supply and cable included

CONTROLLERS

CCTV peripheral control is managed by intelligent keyboard controllers that interface directly to PTZ domes, DVRs or multiplexers. These devices offer a unified approach interface to manage various CCTV peripherals that are remotely located from the operator.

HJZTP

"All-in-One" Joystick Telemetry Controller

HJZTP represents the latest advancement of telemetry control, designed to give security professionals control of Honeywell HD6 or RapidDome cameras, HRHD Series DVRs or HXCT/HXMT Series multiplexers.

- Complete control of up to 32 multiplexers and/or DVRs in any combination
- Facilitates control up to 128 domes (Diamond and VCC protocol)
- Support for up to 3 additional controllers per system
- Simple installation via RJ type connectors
- Configuration via on board LCD screen
- Power supply and cables included



ADI Ordering Information



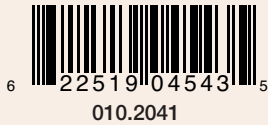
HEGS5000

HSX3208L Keyboard and PTZ, MUX/VCR Control

The HEGS5000 is designed to operate as a keyboard for the HSX3208L matrix switch or as a stand-alone controller for HD6 Series domes, multiplexers and VCRs. All functions of the individual units are supported remotely and intelligently.

- Control of up to 256 domes
- Remote control of up to 16 multiplexers
- Remote control of up to 16 VCRs
- 3 axis rate proportional joystick with integral zoom control
- LCD display with user programmable macros
- Separate logins for operator and supervisor access
- Logical camera selection with HSX3208L





DSyC

System Controller for the HRDV DVRs

DSyC provides advanced, full function control featuring:

- Remote access and control for up to 4 HRDV DVRs, and up to 64 cameras
- Access any camera with single or multiple screen views
- Ability to set-up PTZ camera presets and patterns remotely
- User-friendly keyboard with joystick control
- View system alarm reporting and alarm history
- Program system tours that can start and stop manually, or use daily timing schedules for automatic start/stop

ACCESSORIES



HDCD8TP

8-Way RS485/RS232 to RS485 Bi-Directional Distribution Box

The HDCD8TP code distributor is designed to provide user capability and control to receivers (e.g. PTZ receivers) in a CCTV system. The input can either be RS485 or RS232 and each output is capable of transmitting control data to thirty-two RS485 units.



- Front panel LEDs indicate data transmitted to and from the receivers
- Daisy-chain multiple HDCD8TP units to provide additional outputs for each receiver
- Up to 4,000 feet maximum distance from the output to the last receiver
- Regenerated RS485 signals provide an additional 4,000 feet between controller and receiver