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MAX-1000® Video Management System Overview

The MAX-1000® from Honeywell Security is an intelligent, exponentially expandable, closed circuit television (CCTV) management system. With unparalleled flexibility and reliability, the system is simply the best choice for any surveillance application no matter what the size.

Designed with end-user needs in mind, the modular format of the MAX-1000 provides almost unlimited expansion capabilities.

At the heart of MAX-1000's power and flexibility is the SETMAX for Windows® configuration software. SETMAX enables unmatched decision-making, automation and customisation, providing end-users an expansion path from simple matrix switchers to powerful video management systems as their needs grow. The result is significantly reduced operator training and response time, minimised opportunities for human error and collusion, and immediate access to peripheral equipment from a single keyboard or GUI.

MAX-1000 flexibility is implemented on modular, off-the-shelf hardware architecture consisting of system controllers, keyboards and subracks with video, audio, text and I/O cards. MAX-1000 projects are supported by Honeywell Security Application's Team and Field Engineering personnel. Value added services, such as system design, CAD drawings, riser diagrams, commissioning, programming, and customised interface development, are available for consultants, integrators and end-users.



Control Console Layout with General MIMIC Panel, Alarm MIMIC & Radio Link

Key Features

- Customised programmable keyboards
- Logical camera selection
- Alternate camera selection
- PTZ Call
- Alarm Management
- Large library of protocols for PTZ, multiplexer, VCR, printer and other peripherals
- Recorder Management™ (US patented)
- HLI (High Level Interfaces) for integration of third-party security and non-security systems
- Smarttext™
- Dynamic cable equalisation
- Mimic Panels
- Audio/intercom integration
- Networking of up to 99 nodes
- MGP (MAX Graphics Platform) software GUI with full MAX-1000 functionality
- Automated incident dubbing

Features & Benefits:

Programmable Keyboard:

Programmable keyboards enable operators to access logical cameras, peripheral devices and frequently used functions with a single key. Over 100 programmable keys (KEGS5300) and up to 8000 buttons and 999 key functions (ULTRAKey™) are available for intuitive operation of even the most complex systems. This reduces operator training and response times as compared to fixed key controlled video matrix switcher systems.



Fig. 1
ULTRAKey controller



KEGS5300

Logical Camera Selection:

Allows logical selection of cameras and Recorders by location, eliminating the need for operators to memorise camera numbers. Operators can easily step through the camera list for each logical group by using the up/down arrow keys or the ULTRAKey jog shuttle.



Fig. 2
Logical camera groups for prison application

Alternate Camera Selection:

There is often a need to use more than one camera to cover a specific area. The MAX-1000 allows operators to toggle between multiple "alternate" cameras with a single keystroke.



Fig. 3 **Sample alternate camera key**

PTZ Call:

Dynamic PTZ selection provides single key access to an assigned PTZ camera and preset position to provide easier tracking or greater detail of a fixed camera scene.



Fig. 4 **Sample PTZ call key**

Alarm Management:

Complex alarm management scenarios can be implemented, providing precise information and control to operators in times of crisis.

High Level Interface (HLI):

The MAX-1000 supports integration with many security and non-security systems such as digital recording systems, video transmission systems, access control systems, alarm management systems, intercom systems, public address systems, data and reporting systems.

Multiple PTZ Protocols:

MAX-1000 supports the most common PTZ protocols. The dip switch selection of the protocols allow control of existing PTZs without expensive protocol converter boxes. The large library of PTZ protocols make the modular MAX-1000 architecture an ideal solution for retrofit applications, significantly reducing overall installation costs.

Peripheral Equipment Control:

The flexibility of SETMAX configuration software combined with an extensive library of peripheral CCTV equipment protocols allow operators to control VCRs, multiplexers, digital recorders, video printers and more from a single keyboard.



Fig. 5
Sample VCR and printer control keys

Recorder Management™ (US Patent 5,923,364):

Proprietary Recorder Management technology provides:

- Guaranteed recording during review, media change, DVD or VCR failure – automatically
- Automatic transfer to standby recorders
- Automated VCR tape changes
- Control of recorders direct from operator keyboards and MAX Graphics Platforms

Features:

Smarttext™ :

This unique feature allows text to be concealed and revealed upon command from the keyboard either live or upon tape review. As a result, Smarttext™ eliminates the possibility of the text message obscuring a critical event.

MAX Graphics Platform (MGP):

The MGP software package is a Windows™ based, optional touch screen, graphical interface providing interactive control and display of the MAX-1000 video management system. Live video display, real time status indicators and free form "hot spots" bring all the flexibility and features of the MAX-1000 system on to a PC based software interface.



Fig.6 Sample MGP screen

Automatic Record Quality Check:

Often, the fact that videotape has outlived its effective life, DVR hard drive crash or that a VCR requires servicing will not be discovered until after an event has occurred and the videotape is reviewed. The MAX-1000 protects against this possibility by providing fully automated record quality checking and reporting.

Dynamic Cable Equalisation:

This feature provides dynamic equalisation of video signals for up to 1000 yards of coaxial cable. The need for expensive amplification or fibre optic equipment is minimised, resulting in significantly reduced overall installation costs for a system.

Automatic Incident Dubbing:

Automated incident dubbing provides fast and simple dubbing of recorded incidents.

Dynamic Video Printer Control:

Allows a video printer to be shared between multiple operators. To generate a print, the operator simply selects the desired printer command from the MAX-1000 keyboard. The MAX-1000 automatically directs the currently selected camera to a video printer, and switches the output of the printer to the operator's monitor.

Camera Failure Detection:

Provides automatic substitution of failed cameras with alternative fixed or preset PTZ cameras, ensuring continuous coverage should a video source be lost.

Mimic Panels:

Mimic panels with LED indicators allow control of CCTV and peripheral equipment with customised interfaces while providing real time status of devices and events.

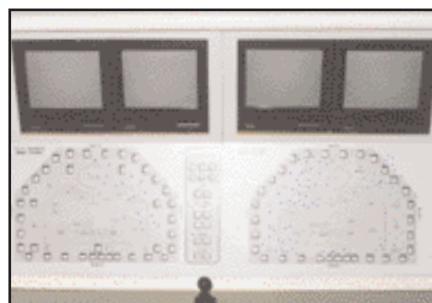


Fig. 7 Sample Mimic panel layout

Networking:

Up to 99 MAX-1000 systems, with a total of 10,000 cameras, may be interconnected in a single video network. Interconnected systems can be contained within the same building or around the world. Full control of all devices is available across the network. The MAX-1000 supports video transmission and control over Ethernet networks.

Integrated Systems & Field Engineering Support:

Honeywell Security supports MAX-1000™ projects from conception to commissioning through the expert resources of its Applications Team and Field Engineering personnel. These dedicated Honeywell Security partners with extensive project management experience ensure that integrators, consultants and end users have access to a variety of services including CAD drawings, riser diagrams, commissioning, programming, and customised interfaces for any application.



MAX-1000® Video Management System Overview

Datasheet

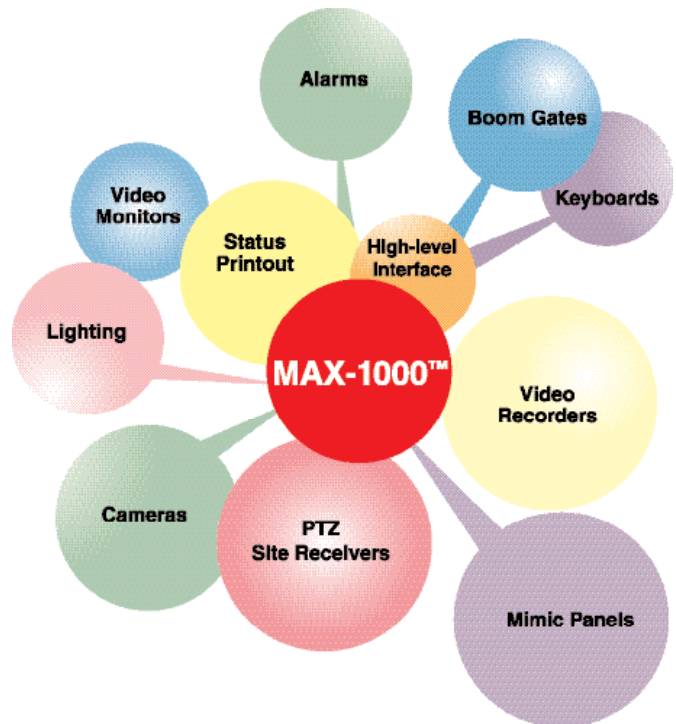
Specifications:

Models

General

CPU-based video switching system
 Controllers – supports 99 keyboards per network node and up to 99 Max Graphics Platform (GUI) and keyboard combinations.
 Real-time CPU clock for up to 100 time initiated events
 9,999 programmable macros (50,000 macro events)
 Alarm inputs – up to 30,000
 Alarm outputs – up to 10,000 relay outputs
 PTZ data transmission – multi-protocol for most major manufacturers

Video Inputs	From 8 to 4096 per network node, 75 Ohms terminated, BNC connector standard Looping optional
Video Outputs	From 8 to 256 per network node, 75 Ohms drive for one load, BNC connector standard
Text Display	5 lines of 18 characters, B&W text, programmable dynamic screen positioning, 18-character camera description, time-and-date display and operator message prompts
Control Keyboards	Keyboards are available with either lexan overlay or LCD touch-screen. All keys are fully programmable. Keyboards incorporate variable speed joysticks with integral zoom controls
Communication Protocols	RS 232 RS 485 RS 422 Infrared
Other Features	99 network nodes supported with up to 10,000 video inputs 99 operator priorities 1999 scan sequences Video loss detection Threshold adjustable low video detection Dynamic cable equalisation (optional) Smarttext (optional) Black pause switching Monitor blanking Keyboard intercepts Keyboard timeouts Alarm management Max Graphics Platform MGP (GUI) Mimic Panels Partitioning for keyboards, users, cameras, monitors and more



MAX-1000 Overview Diagram

Integration

Digital Video Recorders
 PTZs
 VCRs
 Multiplexers
 Quads
 Video Printers
 Matrix switchers
 Access Control Systems
 Intrusion Detection Systems
 Building Management Systems
 Perimeter Detection Systems
 Slot Systems
 Player/Dealer Tracking
 Intercom Systems
 Public Address Systems

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The manufacturer reserves the right to alter the specification of products without prior notice.

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