MAX-1000™

VIDEO MANAGEMENT SYSTEM OVERVIEW

Ultrak's MAX-1000™ is the most powerful and flexible video management system available to the security and surveillance market. MAX-1000™ installations with upwards of thousands of video inputs can be found in projects ranging from diamond mines in South Africa, prisons in Australia and city centers in the U.K. to airports in China, oil pipelines in Venezuela and casinos in Las Vegas. The modular hardware architecture and flexible configuration software also make MAX-1000™ the ideal solution for any new or retrofit applications.

At the heart of MAX-1000™'s power and flexibility is the SETMAX for Windows® configuration software. SETMAX enables unmatched decision-making, automation and customization, 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, minimized opportunities for human error and collusion, and immediate access to peripheral equipment from a single keyboard or GUI.

- **Customized programmable keyboards**
- **Logical camera selection**
- **Alternate camera selection**
- **PTZ call**
- **Unmatched alarm management scenarios**
- **Software integration with Ultrak's SAFEnet® platform**
- **Large library of protocols for PTZ, multiplexer, VCR, printer and other CCTV peripherals**
- **VCR Management™ (US patented)**
- **HLI (High Level Interfaces) for integration of third party security and non-security systems**
- **Smartext™**
- **Dynamic cable equalization**
- **Mimic panels**
- **Audio/intercom integration**
- **Networking of up to 99 nodes**
- **MGP (MAX Graphics Platform) software GUI with full MAX-1000™ functionality**

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 Ultrak's Integrated Systems Group (ISG) and Field Engineering personnel. Value added services such as system design, CAD drawings, riser diagrams, commissioning, programming, and customized interface development are available through ISG for consultants, integrators and end-users.

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VIDEO MANAGEMENT SYSTEM FEATURES

Custom Keyboard Overlays: Custom Keyboard Overlays enable operators to access logical cameras, peripheral devices and frequently used functions with a single key. Over 100 programmable keys are available for intuitive operation of even the most complex systems. As a result, operator training time and response time is significantly reduced compared to traditional video matrix switchers with fixed key controllers.

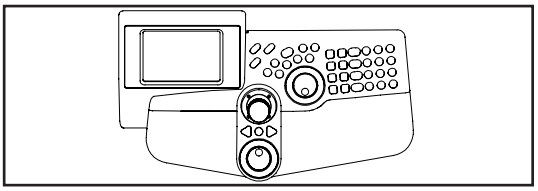


Fig.1 UltraKey Controller

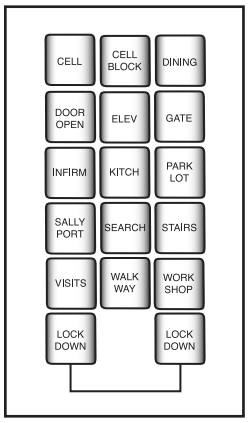


Fig.2 Logical camera groups for prison application

Logical Camera Selection:

Logical camera groups with intuitive titles eliminate the need for operators to memorize camera numbers.

Alternate Camera Selection:

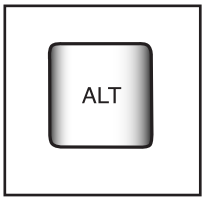


Fig.3 Sample alternate camera key

There is often a need for operators to view a scene from multiple angles and nearby cameras. MAX-1000™ enables operators to toggle between "alternate" cameras with a single key press, significantly reducing operator response time.

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.

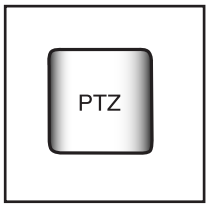


Fig.4 Sample PTZ call key

Alarm Management:

MAX-1000™ allows unmatched alarm management scenarios to be implemented, providing precise information and control to operators in times of crisis and multiple alarm or time initiated events.

High Level Interface (HLI): High level interface allows for integration with third party video matrix switchers, digital recording equipment, access control systems, alarm management systems, intercom systems and other security and non-security systems.

Multiple PTZ Protocols: MAX-1000™ subrack controller cards and PTZ cards have the most common PTZ protocols built in. 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 CCTV 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.

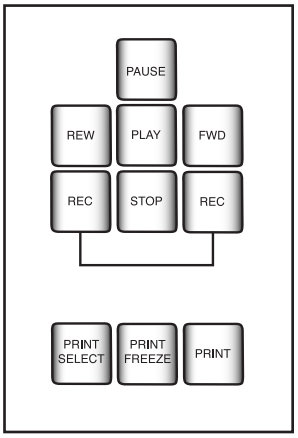


Fig.5 Sample VCR and printer control keys

VCR Management™(patented): MAX-1000™'s patented VCR Management™ feature eliminates lost video concerns. Whether a VCR is stopped because of tape change, VCR review or VCR failure, MAX-1000™ can automatically transfer video inputs to standby VCRs and assure no video recording is lost. VCR Management™ also automate tape changes and enables VCR control directly from operator keyboards.

MAX-1000™

VIDEO MANAGEMENT SYSTEM FEATURES

SAFEnet™ Integration: MAX-1000 can be integrated with Ultrak's SAFEnet™ platform to provide seamless control of security, access control, fire and environmental systems from a single platform.

Smartext™: This unique feature allows text to be concealed and revealed upon command from the keyboard either live or upon tape review. As a result, Smartext™ 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

Dynamic Cable Equalization: This feature provides dynamic equalization of video signals for up to 1000 yards of coaxial cable. The need for expensive amplification or fiber optic equipment is minimized, resulting in significantly reduced the overall installation costs for a system.

Automatic Incident Dubbing: This feature provides fast and simple dubbing of live and recorded incidents while standby VCRs ensure no loss of video.

Camera Failure Detection: Camera failure detection goes beyond simple video loss detection available in some matrix switchers and allows automatic substitution of failed cameras with alternative fixed or PTZ cameras with presets. This ensures continuous viewing or recording of a scene even if the original video source is lost.

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

Networking: MAX-1000™ supports networking of up to 99 nodes for control of up to 10,000 cameras. Prioritized and partitioned access to trunk lines ensures maximum availability of network nodes.

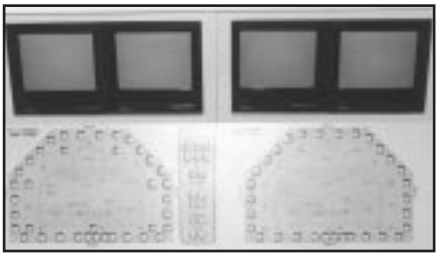


Fig.7 Sample Mimic panel layout

ISG & Field Engineering Support: Ultrak supports MAX-1000™ projects from conception to commissioning through the expert resources of its Integrated Systems Group (ISG) and Field Engineering personnel. These dedicated Ultrak 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 customized interfaces for any application.

MAX-1000™

TECHNICAL SPECIFICATIONS

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 Ohm terminated, BNC connector standard
- Looping optional

VIDEO OUTPUTS:

- From 8 to 256 per network node, 75 Ohm drive for one load, BNC connector standard

TEXT DISPLAY:

- 5 lines of 18 characters, black & white text, Programmable dynamic screen positioning, 18 character camera description, time and date display and operator message prompts

CONTROL KEYBOARDS:

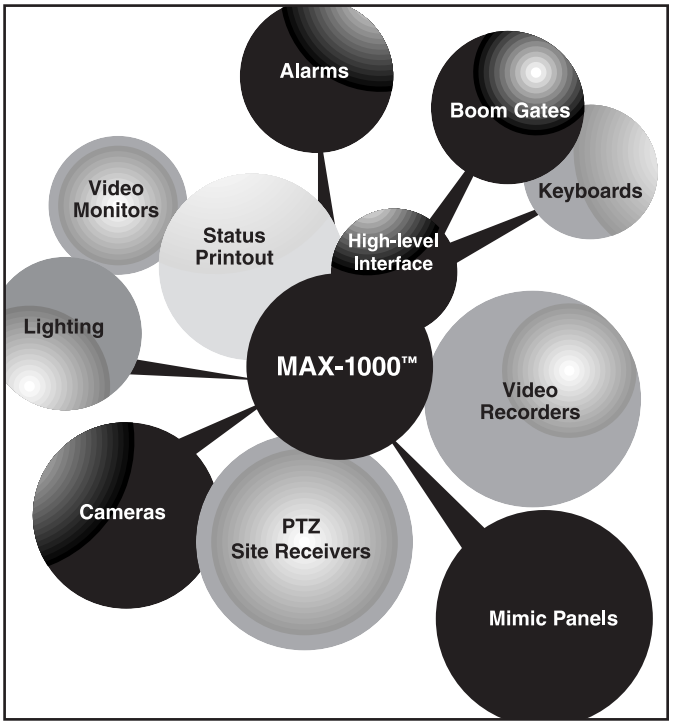
- Keyboards are available with either lexan overlay or LCD touch screen. All keys are fully programmable. Keyboards incorporate variable speed joysticks with integral zoom controls

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 equalization (optional)
- Smartext™ (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



INTEGRATION:

- SAFEnet™
- 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

Design and specifications subject to change without notice.

Conversion: 1" = 25.4mm
Measurement conversions are approximate

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