

## MAXPRO-Net Server

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### VIDEO MANAGEMENT SERVER

The MAXPRO-Net Server is the center of Honeywell's premium level video and audio management system. It is a Windows-based, full-featured server specifically designed for security and surveillance professionals. It provides increased flexibility that leverages the analog video matrix with current and future digital networking video recorders and other security control solutions such as access control, fire, building management, intercom and perimeter systems.

The MAXPRO-Net software offers flexibility and customization through an extremely powerful macro language and supports up to 10,000 inputs and 256 outputs on a single node. Ethernet connectivity allows for TCP/IP connection to peripheral devices such as network nodes and controllers. A suite of software applications allows remote administration over LAN/WAN for live updates, live system diagnostics, keyboard emulation, input/output control, and message logs review. Configuration data is SQL-based, allowing for Enterprise management.

The MAXPRO-Net Server is rack-mount ready and ships complete with an 8 port serial card, keyboard, mouse and MAXPRO-Net system software. A MegaPIT auto changeover device allows for server redundancy and seamless switchover from one server to a backup.

#### Market Opportunities

The MAXPRO-Net CPU server and software is ideal for any new or retrofit security surveillance application ranging from small video matrix switch environments to the complete networked integrated systems found in casinos, retail stores, healthcare facilities, correctional facilities, airports and other locations that require multiple security components. MAXPRO-Net is designed to meet the challenges of today's growing security business needs.

#### Features

- Intuitive installation wizards for simple and fast basic setup
- Controls both legacy MAX-1000 and VideoBloX matrix switching hardware
- Can import MAX-1000 configuration files for easy upgrade
- Centralized management console through Setmax and MaxMon applications
- Configuration updates done without a reboot
- UltraKey support over Ethernet
- Flexible, powerful macro language incorporates access to system variables, Boolean logic, and storage arrays
- Ethernet remote control to satellite matrix switches
- High-level interface available for integration with third party switchers, digital recording equipment, access control and alarm management systems
- PTZ Call selects the nearest PTZ dome when logged to a fixed camera
- PTZ Flashback recalls the last pre-shot position observed. Pre-shots can be toggled between last two
- Recorder Management enables automatic transfer to standby recording media upon detection of a failure
- Control of NVR from a keyboard or MAX Net Graphics Platforms
- Logical Camera Selection allows operators to select cameras and recorders by location



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## SOFTWARE SPECIFICATIONS

### Setmax Application

Windows configuration application based as a client connecting to the MAXPRO-Net service (Server).

Importing/exporting of legacy MAX-1000 files is available as well as importing/exporting of system files to Excel. Traditional cut/paste and fill options for editing and an Auto Save feature are available.

### System Wizards

A New System Wizard sets up a basic new system configuration. An Add System Wizard adds to an existing configuration.

### Input Table

Configuration of system inputs, input titles, hardware configuration, device numbering, input type, alternate camera, PTZ configuration and input partitioning (source grouping).

- Source flags allow individual input flagging for use with macros.
- Start and finish macros allow for macro execution based on an input alarm condition (e.g., video loss).

### Output Table

Configuration of system outputs, output titles and attributes, hardware configuration, device numbering, output type, default camera and sequence configuration.

- Control of source groups (inputs), alarm groups and keyboard configuration.
- Macro flag configuration allows differentiation between outputs for use with macros.

### Sequence Table

Storage arrays are used for storing scans (sequence), tours and index tables. A total of 1999 separate scan sequences can be created in the system, each of which can contain 99 entries. There are three kinds of sequence types available:

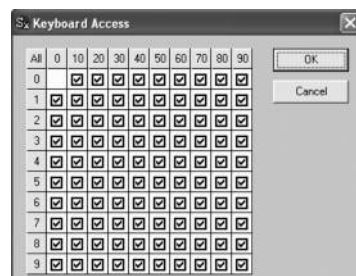
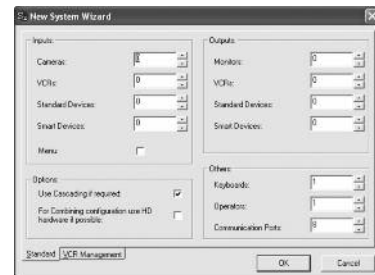
- Scan: A generic sequence that may be run on any output video channel. During a scan sequence operation, camera selection entries are wrapped around when the end of the scan sequence is reached. This mode of operation continues until the scan sequence is halted. Individual dwell times can be assigned per scan.
- Tour: Similar to a scan except the sequence is stepped through only once.
- Index: For this field, it indicates that the table is used to hold information for macro programming. Entries can be written, read, pushed and popped from the table through macro operations.

### CCTV Keyboards

Configuration of system keyboards, default monitor/operator, audible status and LCD display format. A post event flag field allows for selecting the type of events that will trigger a macro. Macros can be triggered each time a monitor, input, NVR or PTZ is selected or controlled.

### Intercept Keyboard Keys

Each key press and release from a keyboard can be intercepted and replaced with a macro or alternate function. Keyboard access to these key codes can be set.



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#### Keyboard Operators

The software has the ability to configure operators, pin numbers, priority, access to keyboards, inputs and alarms. Operator privileges can be set for system access and control. Examples of privileges are swap PTZ up/down, camera preset setting, PTZ control, NVR control, etc. The system allows operator priority to determine the over-riding operator if multiple operators are attempting to access the same function.

#### External Alarm Inputs

Configuration of external alarm input sensor devices including enabling/disabling alarms, normally open/ normally closed states, and latching or toggling the inputs.

#### Auxiliary Control Outputs

Auxiliary control output configuration allows the administrator to active or de-active relay outputs.

#### System Macro Library

The location for entering system macro execution sequences. The MAXPRO-Net programming language (MPL) supports several common programming functions such as:

- Conditional statements (e.g., if...then...else)
- Variables and strings can be used as well as accessing system variable.
- Go to sub routine, jump and call functions are available and multiple timers can be set.
- Do loops and for next functions are available to the programmer.

#### Special Parameters

Configuration of global system parameters

#### Serial Ports

Configuration of serial port type and format

#### Error Log

Logging of system errors and system events

#### Logical Camera Selection

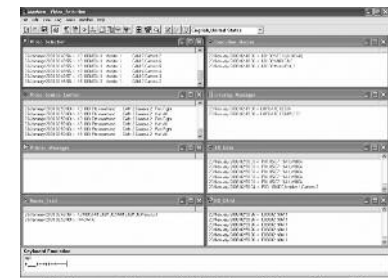
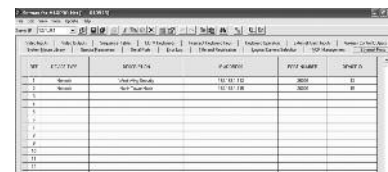
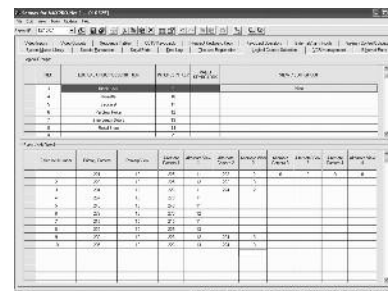
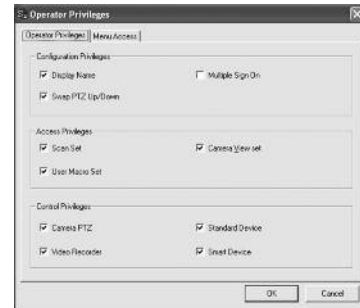
Allows operators to select cameras and recorders by location and eliminates the need for operators to memorize camera numbers. Operators can easily step through the camera list for each group of system components by using the up/down arrow keys or the UltraKey jog shuttle.

#### Ethernet Ports

The MAXPRO-Net Software configures the IP addresses and port numbers which allow the MAXPRO-Net Server to communicate with other MAXPRO-Net nodes through Ethernet ports over LAN/WAN.

#### MaxMon Application

MaxMon is a powerful diagnostic tool that allows monitoring of system activity. Eight test windows are viewable on one screen: video selection, video source control, printer messages, macro trail, execution macros, error log messages, TX data and RX data. Live system status information is also viewable.



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#### Chassis with Video Input, Output Modules and Chassis Interlinking Modules

Designed specifically to reduce the space required for a matrix switch, the chassis has a high density, low profile format. It will mount in an industry standard 19 inch rack and has a depth of less than 10 inches. The compact design reduces rack size, saves space, limits the amount of interconnection cabling, produces less heat and is easier to install – all of which add up to lower installation and maintenance costs. System chassis are available in 2U, 4U, 8U and 12U sizes and all except the 2U support 64 output channels.

Modules in the chassis are hot swappable and position-independent. Removal of any input/output or interlinking modules is done without disconnecting cables by using the rear termination panels. This greatly reduces maintenance time and interruption of the system.

Multiple chassis can be interlinked, providing the system designer with the flexibility of distributing the system throughout the site or even to remote sites with the appropriate communications network. The chassis includes an internal power supply module (except 2U), which connects to the main power supply. A secondary power supply of 24 VDC can be connected to the chassis and powered from a separate main circuit for power supply redundancy.

#### Video Input/Output Modules

Composite video is received into the chassis through the 16 channel BNC rear termination panel or, in the case of the UTP input board, through four RJ45s. Three versions of video input boards switch video from the 16 inputs to any one of 16, 32 or 64 output bus channels. Each video input board performs video loss detection and incorporates its own processor and power regulation for true distributed processor architecture.

Each Input card has power and communications LED and the UTP card has LEDs for each video input. UTP input modules have a range selection for 0-1500' and 1500-3000' as well as a gain potentiometer for each input.

Additional versions of rear termination allow video to be looped out of the chassis, either using BNCs or an IDC style mini coax cable to a remote rackmount BNC panel.

Video output modules connect 16 of the available 64 output bus channels to monitors or other video receivers. The rear termination consists of 16 BNCs. Video output modules overlay system titling in an 18 line by 44 character array with changeable fonts and multi-language character support. The video output module contains a web browser that allows the system firmware to be upgraded remotely.

#### Alarm Input/Output, PTZ Data and DVR Control GPIO Module

The GPIO module fits in the VideoBloX chassis and occupies 1/2U. It has 4 PTZ data ports that are individually selectable between 3 Honeywell and 5 other manufacturer PTZ protocols. The GPIO also has a unique "user defined protocol" that allows the end user to program a protocol that the GPIO may not support.

The GPIO supports 24 (N/O, N/C or EOL) alarm inputs and four relay outputs. The module has an Ethernet port for firmware upgrading and local board configuration. One of the PTZ ports can be configured to control third party devices. This requires the serial control protocol of that device to be added to the NetCPU devices database.



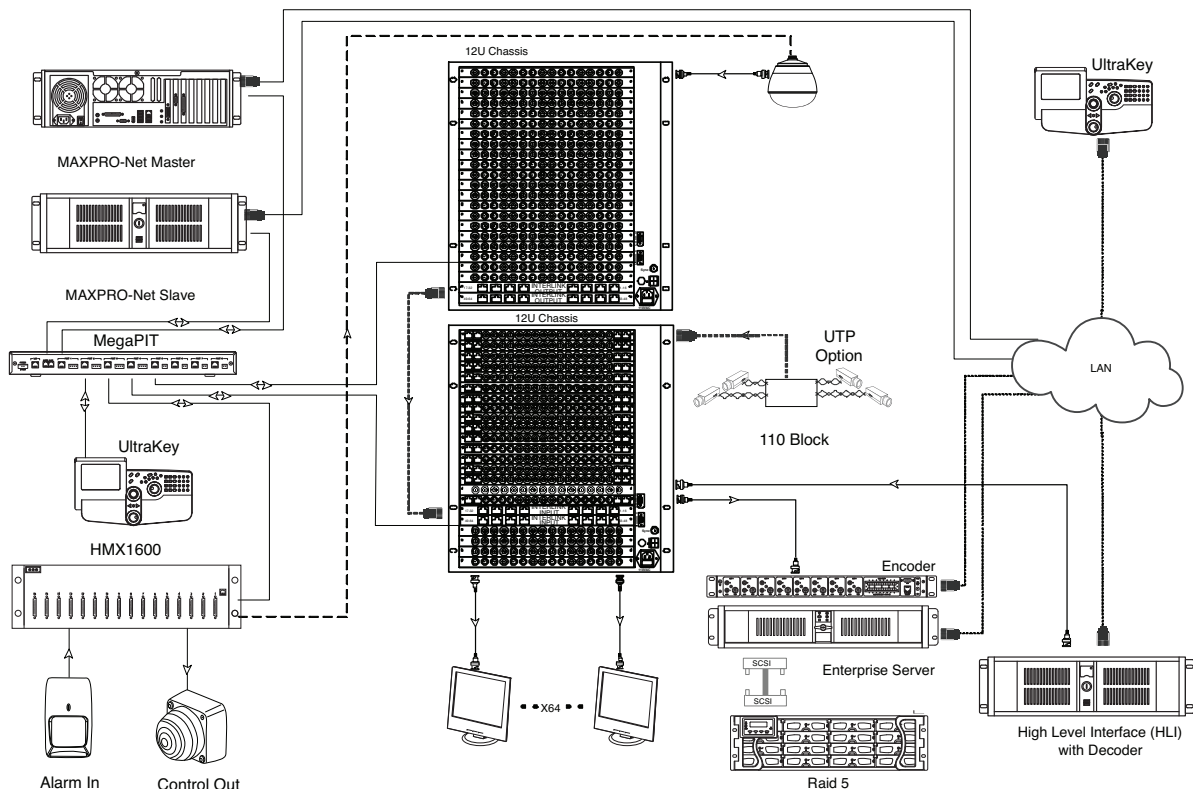
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### SPECIFICATIONS

Operational Server	
Motherboard	Intel Pentium Dual Core 3.2 GHz, 2 GB, XP OS, 250 GB Hard Drive
Ethernet	Port 1 10/100 RJ-45
Serial	Moxa 8 Port x RS232 DB9 (PCI) 1 x RS232 DB9 on board
Software	
Database	Microsoft SQL Desktop Engine
Supported Video Input	Fixed and PTZ Cameras, VCR/NVR, Smart and Standard Devices, Trunk Video Inputs (Networked System), Black Source
Supported Video Outputs	Monitors, VCR/NVR, Smart and Standard Devices, Trunk Video Inputs (Networked System), Black Source
Input Descriptors	18-character description
Source Groups	99, used for partitioning
Video Fail Detection	Each input
Operator Priority Levels	Up to 99
Operators	Up to 99
Keyboards	Up to 99
Inputs	10,000
Pseudo digits	4 digit
Outputs	256 per node
Nodes	99
Alarm Inputs	30,000
Alarm Outputs	10,000

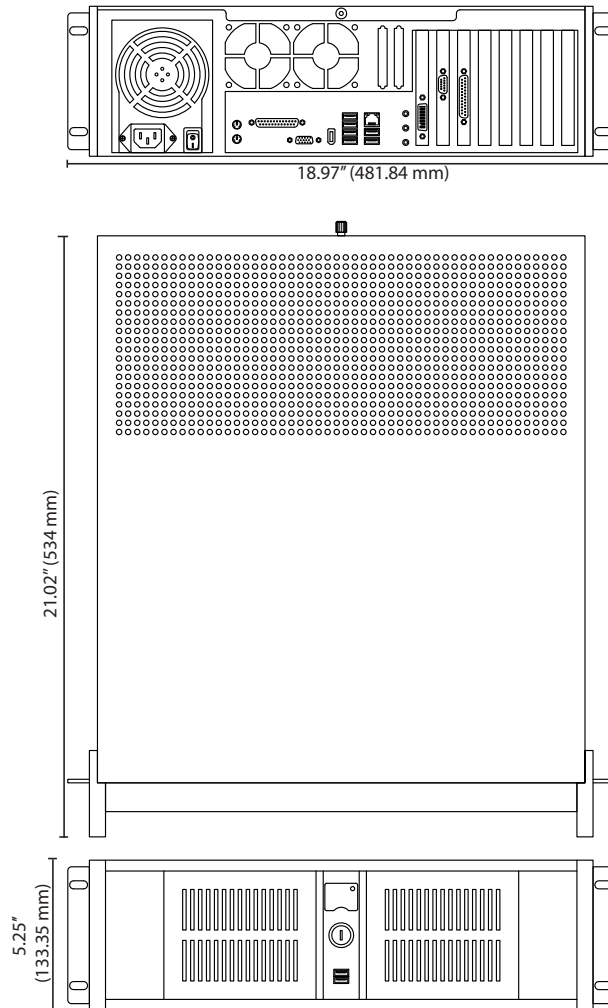
Electrical	
Input Voltage	110/220 VAC 50/60 Hz
Power Consumption	400 VA
Mechanical	
Dimensions (WxHxD)	18.97" x 5.25" x 21.02" (481.84 mm x 133.35 mm x 534 mm)
Weight	45 lbs (20.4 Kg)
Construction	Steel, Black
Environmental	
Temperature	32°F to 104°F (0°C to 40°C)
Relative Humidity	5 – 95% non-condensing



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## ORDERING



Ordering	
MAXPRONET	MAXPRO-Net server and system software - 8 Serial Ports
MAXPRONETSW	MAXPRO-Net Software only

**NOTE:** Honeywell reserves the right, without notification, to make changes in product design or specifications.

### Automation and Control Solutions

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