

ADEMCO
VIDEO



Video BloX

Full Crosspoint Matrix Switch/Control System



The Ultimate in Matrix Switching and Control



Video BloX

VideoBloX is a full featured, high capacity video and audio matrix switcher that has been proven to be easy to install, easy to configure and easy to operate.

With VideoBloX, installing, configuring, operating and maintaining a CCTV control system is child's play. More than just a video matrix switcher, VideoBloX is an integrated control system for video, audio, CCTV peripherals and alarms.

- Plug and play, position independent, modular system
- High quality images, near broadcast quality performance
- High density compact design
- Video and Audio input modules co-exist in the same chassis
- Dual CPU and PSU capability for redundant systems
- Video loss/video level window alarm capability
- Flexible, ultra-powerful sequence engine
- User-friendly operation – Quick Group, Scene and View selection
- Fully integrated audio switching
- Integrated control of ADEMCO Video's and other manufacturer's PTZ / Domes / VCR / MUX / DVR etc
- RS232 auxiliary control port, allowing third-party systems to access the features of VideoBloX

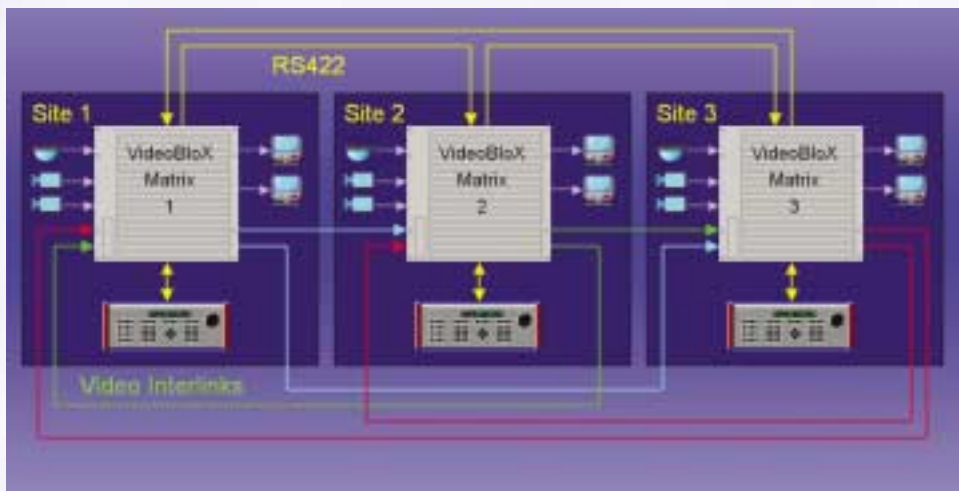


Expanded Matrix Switchers

- Designed for expandability, users may create systems with up to 4080 inputs and 256 outputs by interconnecting multiple racks. 32 Way twisted ribbon cables allow for simple, high density interconnections.
- Multiple VideoBloX matrices may be interconnected to form a network, allowing remote monitoring of video and audio as well as control of remote PTZ/Domes/VCR/MUX/DVR etc.



Integrates Complete Control of Analog and Digital Video Systems from a Control Keyboard or GUI Workstation



This diagram shows how multiple VideoBloX matrices may be networked. All that is required is an RS422 communication link and the video interconnects.

Chassis Size	Modules	Maximum Size
2U	3	32 into 8
4U	7	80 into 16 or 64 into 32
8U	15	192 into 32 or 160 into 64
12U	23	320 into 32 or 288 into 64

VideoBloX Lite

For cost effective smaller systems, with a maximum size of 96 inputs and eight titled outputs, VideoBloX Lite provides a powerful, control and monitoring solution, featuring the full power of VideoBloX. The VideoCFG configuration program is compatible with VideoBloX Lite, simplifying future expansion.

VideoBloX Lite systems may be networked and form smaller satellite nodes on a large VideoBloX network.

Using VideoBloX Lite, a 32 into eight matrix switcher fits into a 2U chassis.



Rear Termination Panels

A range of rear termination panels are available to provide maximum flexibility. These panels contain no components except for connectors. In the event of a failure, the front mounted module may be hot swapped. Chassis may be ordered, pre-configured with additional termination panels to simplify future expansion.





Programmable Control Keyboard



The PCK offers full desktop control of VideoBloX matrix switchers. The PCK is available in various configurations to meet most requirements.

- Full control of VideoBloX matrix switching
- Control of PTZ / dome telemetry
- Control of VCRs, multiplexers and other CCTV peripherals
- Function keys for group selection or sequence initiation
- Twist - zoom joystick option available
- Audio option available
- High brightness alphanumeric display
- Positive action keys – no membranes



The PCK may also be used stand-alone, for direct control of all equipment.

Video BloX

- Products are installed on every continent, with installations in over 17 countries
- All products have limited built-in over voltage protection on all inputs and outputs
- All products are built in-house with 100% control of quality
- Manufacturing utilizes the latest in surface mount technology
- Manufacturing facility is ISO9002 certified
- Systems are:
 - Installer friendly - easy to install / configure / maintain
 - User friendly - easy to use
 - Management friendly - full audit reports on system operation
 - Accountant friendly - cost effective





System Accessories



(door open)

Protocol Interface Translator (PIT)

ADEMCO Video offers the technology for a truly integrated system, and the PIT is the versatile device providing this capability. It lets you choose the equipment that is appropriate for your installation without restriction. As well as providing control for all ADEMCO Video products, high-speed domes, VCRs and multiplexers, the PIT also converts VideoBloX protocol to that of other manufacturers, allowing for retrofit installation to third party equipment. Simple DIP switch configuration selects a variety of protocols. Hardware versions of the PIT are:

AVBPIT422: Converts RS422 VideoBloX protocol to RS422 Output protocol for control of other equipment such as high-speed domes.

AVBPIT232: Converts RS422 VideoBloX protocol to RS232 output protocol for control of other equipment such as VCRs, multiplexers and DVRs.

AVBPIT232I: Provides an extension of the AVBPIT232, offering integral optical isolation on the RS232 output.

Data Port Expander

ADEMCO Video's range of Data Port Expanders simplify expanding a system without sacrificing reliability or response time. The RS422 Data Port Expander expands a single VideoBloX RS422 channel into multiple RS422 channels. This provides system installers with the ability to implement larger systems using simple directly connected cables. The Data Port Expander also acts as a Repeater – by cascading the units communications is extended from the typical 4000 foot (1200 meter) RS422 specification to far greater distances. The multiple ports each support 32 devices.

AVB422C4: Is a simple four-channel expander.

The 8 and 16 channel versions provide additional features:

- Rack mounted
- Automatically detects certain fault conditions
- Isolates those channels with fault conditions
- Status LEDs
- High-capacity power supply – each channel individually protected

AVB422FT8: Is an eight-channel expander

AVB422FT16: Is a 16-channel expander



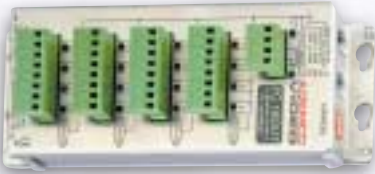
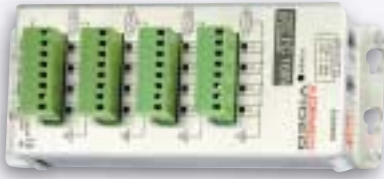
(back view)

Data Converter

The 232-422 unit converts RS232 data to RS422 data and additionally provides isolation between the communication lines. This allows for extending RS232 links and conversion of the signals as required. Changeover switches can configure the RS422 as a master or slave port, while the RS232 may be switched to allow direct connection to a PC or to the RS232 port of VideoBloX products.

AVB232485: Communications converter - optically isolated





Alarm Input/Output Expansion Modules

I²C Alarm Input/Output expansion modules provide both flexibility and expandability. The I²C modules allow system users to increase the capacity of the VideoBloX system to 256 Alarm Inputs and 256 Control Outputs. The modules attach directly to the VideoBloX CPU using a single RJ11 style connector. The modules can also be remotely installed by connecting them to a PIT configured in Alarm Concentrator mode. The modules may even be connected to a satellite matrix switch allowing for additional inputs and outputs.

AVB1²C16I: Capacity for 16 potential free (dry) Inputs.

AVBI²C16O: Capacity for 16 FET Outputs for low-power devices (LEDs).

AVBI²C16KB: Provides a remote keyboard with 16 user keys and 16 LEDs. This device can be used wherever remote control and monitoring is required. Pressing a key would trigger a Sequence thus, for instance, switching a video signal, recalling a preset or unlocking a door.

Pan/Tilt/Zoom Telemetry Receivers

Connects pan/tilt equipment and motorized zoom lenses to VideoBloX, allowing for remote control of PTZ equipment via a simple serial interface. The receiver drives external equipment such as lights, washers, wipers and electric locks using auxiliary outputs. Preset positioning is standard for equipment with feedback potentiometers.

AVBPTZCDC: Telemetry Receiver with DC output.



(back view)

Microphone Receiver

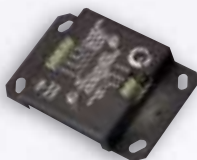
A balanced receiver for eight microphones – allowing microphone modules to be remotely located. The balanced transmission system allows the transmission of the audio signal with minimal interference. Each channel has adjustable gain, as well as indications for signal present and overload. A headset may be connected for audio monitoring and adjustment and phantom powering to the microphones simplifies installation.

AVBPZM8R: Microphone receiver, balanced, for eight-channel

Surveillance Microphones

Consists of a pressure zone microphone and an audio preamplifier / balanced transmitter. The unit has adjustable gain as well as indications for signal present and overload. The microphone can be mounted within the transmitter or can be remotely located on an extension lead.

AVBPZM-MIC: Pressure Zone Microphone





Easy-to-use Configuration and Software Control

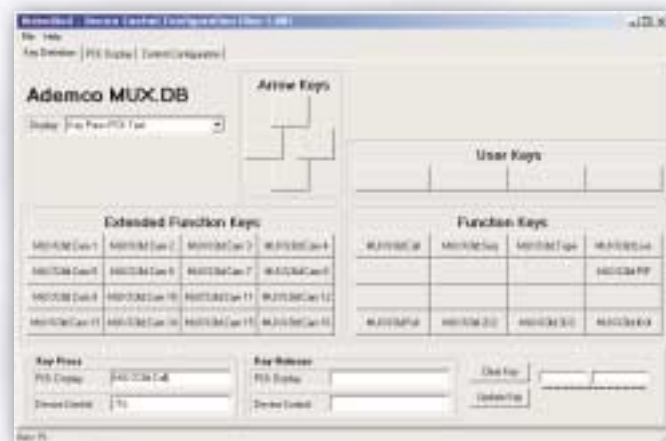
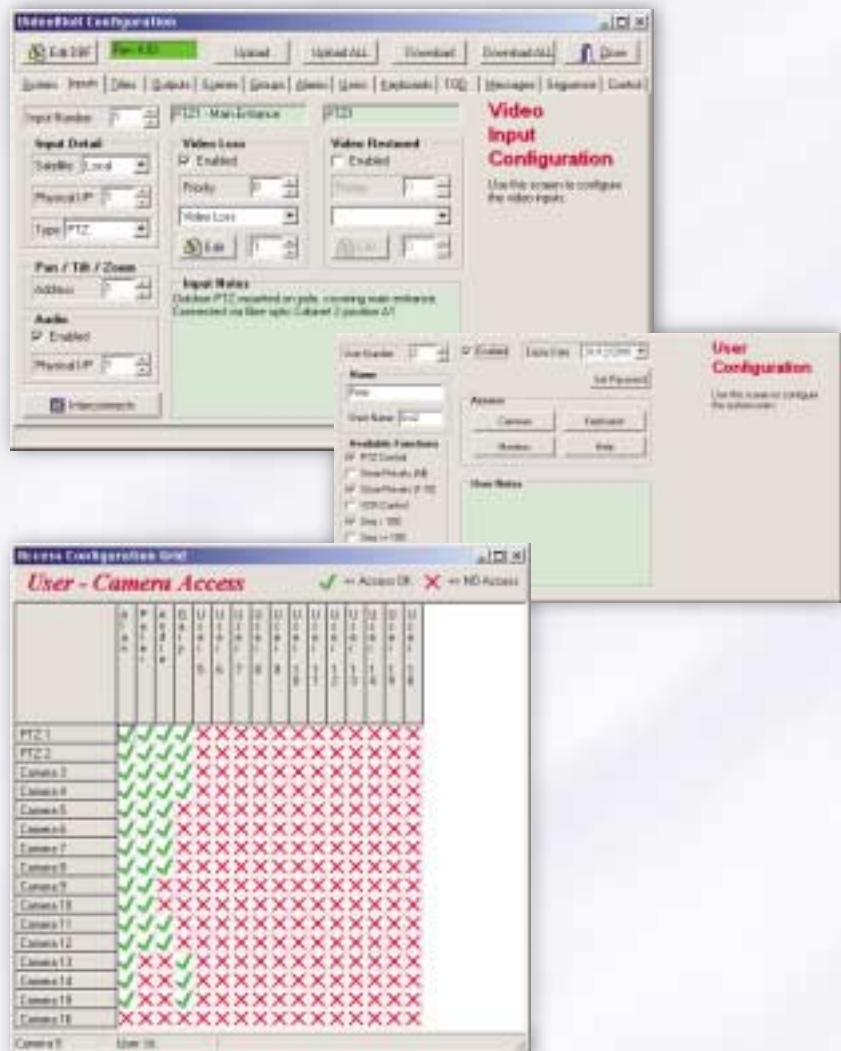
Windows™ 95 / 98 / 2000 / NT Compatible

VideoBloX Configuration Program (VideoCFG)

All VideoBloX matrix switchers are supplied with the VideoBloX Configuration Program. This is the software tool that enables the installer/operator to customize VideoBloX to meet the user's requirements. System operators using the program will soon realize the full capability and flexibility of VideoBloX.

With VideoBloX, everything is configurable. Functions are logically divided onto separate tabs of the configuration program. For example:

- To prevent a user from accessing certain cameras, storing PTZ preset positions, or controlling the VCRs, simply uncheck the appropriate box on the configuration GUI.
- To make a remote camera on a satellite matrix switch available, simply set the satellite address and input channel number.



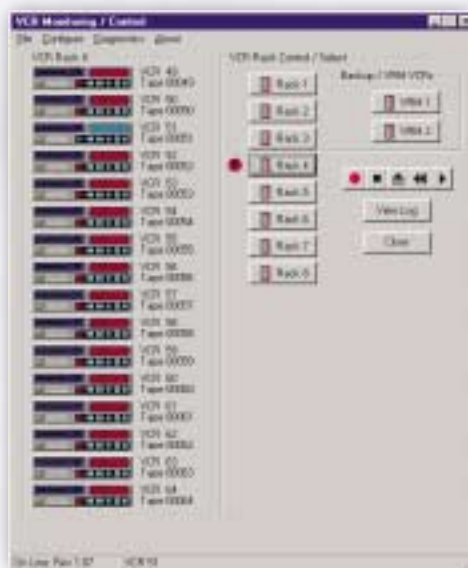
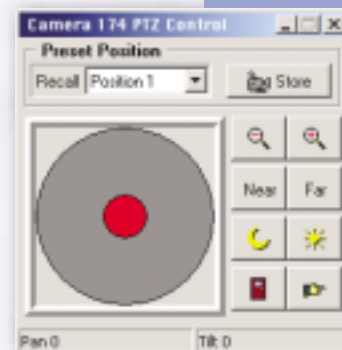
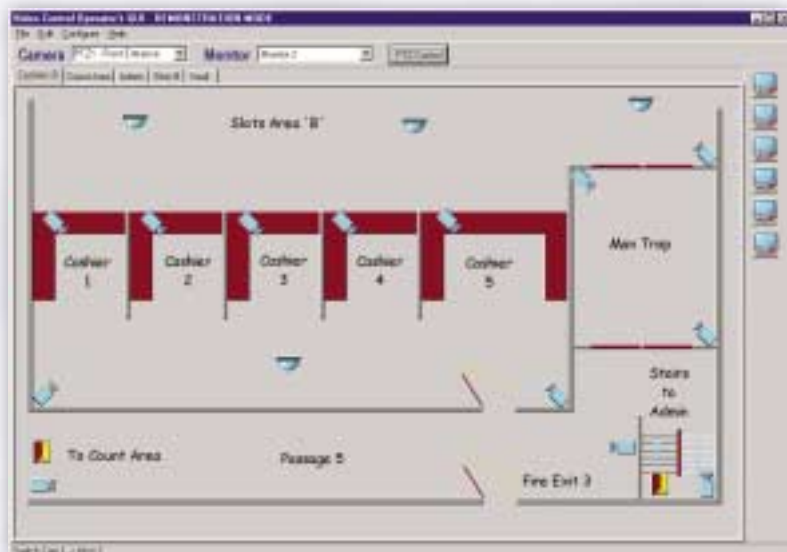
Device Control Configuration (DeviceConfig)

VideoBloX provides the capability to control other manufacturer's equipment. The program, DeviceConfig, allows the user to configure the keyboard to display device specific commands and to transmit these commands to the controlled devices. This is true customer defined integration! Simply fill in the strings and VideoBloX takes care of the rest.



VideoBloX Graphical User Interface

Allows for rapid camera selection from maps of areas. Also allows for control of PTZ and CCTV peripherals. Alert operators instantly to alarms and displays alarm location.



VideoBloX VCR Monitoring and Control Program

Monitors and controls VCRs in large systems. Should an active VCR be stopped by the system, such as for tape review purposes, the associated camera view will be automatically re-routed to a standby VCR. Re-routing allows for a short overlap in the recording of the view on the primary and standby VCRs. Should a VCR exit record mode without being instructed to do so by the system, this will be automatically detected and re-routed to a standby VCR with a record loss in the order of one second.

The VCR GUI displays instantly which VCRs are not recording. A log screen and associated database track where camera views are re-routed.



VideoBloX Network Server Interface Program

Allows for the above suite of programs to be operated from multiple points across a LAN or WAN. Allows for simultaneous system configuration while multiple users are actively using VideoGUI.



Video Titlers



Multi-channel Video Titler

ADEMCO Video's 16 channel MVT makes adding text to on-screen video images simple. With the MVT, users can superimpose date and time, as well as program individual titles on each video input. Triple outputs allow for connection to a VCR and matrix switcher. Each input has:

- Video loss detection
- Adjustable gain
- Termination jumper
- High frequency compensation jumper
- 16 Channel IR VCR control, with optional record monitoring
- Optional rack control keyboard

An RS422 auxiliary port allows for third-party developers to generate additional text on each of the 16 outputs.



Solo Titler

Integrate text display into your system using the Solo Titler. Serial data is received via the RS232 interface, allowing text to be superimposed on a video signal. Switch selectable for ANSI.SYS, a scrolling display, or interface to other manufacturer's equipment. A switch selectable timeout allows for automatically clearing the display if no serial message is received within the timeout period.

VCR Control



RS232 and Resistive VCR Controllers

Want to use integrated control with other manufacturers' VCRs? It's no problem with the VCR16R (resistive control) and MDC (RS232 control). Using a simple selection of DIP switches, operators can configure these products to control 16 channels of RS232 or resistive type VCRs from a number of manufactures.

Monitor and display the record status of each VCR and allow for control of the entire bank of VCR's with a single key press.





Video BloX

Key Features

- VideoBloX is a full featured, high capacity, video and audio matrix switcher that has been proven to be easy to install, easy to configure and easy to operate.
- VideoBloX has a high density, compact design, occupying a smaller rack space than competitive systems. Fewer interconnects are required, thus saving material and labor costs.
- Video and Audio switching co-exist in the same chassis, saving space and reducing installation complexity.
- VideoBloX is expandable - up to 4,080 Video Inputs and 256 Video Outputs can be achieved by interconnecting multiple chassis.
- VideoBloX provides simple interface for Access Control, Intrusion Alarm and Programmable Logic Control.
- Dual Power supplies and Dual CPU options provide a secure and consistent environment.
- Modular "Plug and Play", hot swappable modules decrease maintenance down time.
- Diagnostic Mode is presented on local monitor and controlled by switches on the CPU. Multiple pages of diagnostic information and real time status are presented for ease of trouble-shooting.
- Powerful Sequence Engine with 1024 Sequences each of 25 steps enables VideoBloX to perform versatile and custom Event/Action programmes in response to Alarm Trigger, Scheduled Event or Manual Command.
- Quick Keys allow for the selection of Camera Groups and step-through scenes. Quick Keys can also be custom programmed for other functions.
- Alarm Concentrators (I²C) may be installed remotely allowing for flexibility in design of Input and Output control.
- "Virtual ToolBox" of Protocol Interface Translators provides simple interfacing to other manufacturers components (Domes, PTZ, VCR and Multiplexers)
- Graphical User Interface (GUI) provides simple and intuitive operator interface, map driven with real time control and display.

ADEMCO
VIDEO

171 Eileen Way
Syosset, NY 11791 USA
Customer Service: 1-800-352-9169
1-305-477-5204
Applications Engineering: 1-877-653-0302
Technical Support: 1-888-238-7978
Web Site: www.ademcovieo.com

LVBLOXBRO/D 2/02