CM6800 Series Video Matrix

Automate system operations using event timers to initiate System Sequences and Macros, eliminating the need for constant manual intervention.

System 6800 offers a direct interface to Pelco Genex Series multiplexers. Easy-to-use icons on the keyboard guide the user through available mulitplexer functions.

Choose from 32 to 96 video inputs. In addition to cameras, these inputs allow for the attachment of devices such as Multiplexers, Quads, VCRs, and DVRs. Camera control is available via Coaxitron and Pelco P or D protocols. Built in video loss detection.

Choose from 8 to 16 local alarm inputs via rear panel selection or add up to 256 additional inputs with optional Alarm Interface Units. Choose from a wide selection of display options.

System Manager Package allows user to Program and Store all CM6800 system parameters on an external PC, as well as upload and download system configurations, and monitor system status and functions.

System 6800 Expand Your Reach with Power and Convenience.

Each member of the System 6800 Matrix Switcher/Controller Series provides no-nonsense, affordable solutions for a broad spectrum of cross-point video matrix applications. A highly versatile system, the CM6800, can be remotely operated via desktop keyboards or external computer systems, or operated as a satellite to the System 9760. The included Windows® based System Management Software provides for quick, easy, and error-free system setup.

CM6800 Video Matrix Series

Pelco's new System 6800 Video Matrix Switcher/Controller Series provides for a broad range of video inputs (32 to 96), video outputs (8 to 16), and keyboards (1 to 18) – each packed with features previously unheard of for small to mid-range video matrix solutions.

The System 6800 Series offers complete management of medium scale video security installations. From operating as a potent, stand-alone switcher to its new, powerful expanded footprint, or its additional satellite capabilities, the entire CM6800 Series integrates seamlessly into exiting security and surveillance systems and provides multiple operators the ability to quickly and easily view and control cameras for general surveillance and visual verification of alarm events.

The powerful technologies engineered into the 6800 allow all units to have a small profile and a very friendly, easy-to-install, easy-to-use feature set, while still offering the desired sophistication and capabilities of much larger, more expensive modular matrix systems.

Powerful Versatility

The System 6800 Series supports powerful system macros– or salvo sequences– which allow activation of commonly occurring events, either manually or automatically, based on time of day, day of week, day of year, and/or alarms.

Macros may also activate preset positions and auxiliary functions on suitably equipped receivers. Macros can be used to activate external relays to turn lights on or off, or to

lock or unlock electronic doors. Logical camera numbering simplifies user control by providing the ability to assign any camera number to the physical input. The user can group cameras together in any logical fashion, such as by floor number.

Logical Camera Selection

By making use of the powerful Pelco KBD960 or KBR960 keyboards, System 6800 Series features can include 24 user-programmable keys, which may be individually labeled with installation-specific viewing areas. Operators may then switch cameras to monitors based on the key's label rather than needing to remember individual camera numbers associated with viewing areas. By simplifying and automating many repetitive procedures, this level of sophistication can be quickly understood and used by anyone.

Multiplexer Control

Direct interface to Pelco Genex multiplexers allows operators to control external multiplexers from the system keyboard. Simple icons guide the user through the multiplexer's functions such as Full-screen, Quad, 9- and 16-view displays.

Full Proportional Pan/Tilt/Lens Control

For smooth and reliable operation of cameras, pan and tilt devices, and dome systems, the System 6800 keyboards make use of a vector-solving, variable-speed joystick that responds quickly and accurately to an operator's every request. This intelligent interface allows for the remote positioning of cameras to occur in either straight forward or diagonal directions and can vary the speed of remote positioning devices for tracking purposes.

Coaxitron Control

The System 6800 Series allows for easy connectivity for video security devices and supports Coaxitron and all other Pelco camera control protocols. Coaxitron simplifies installation by joining control data and video signals together on a single coaxial cable.

Remote Operation

The System 6800 is designed for remote operation from desktop keyboards or external computer systems. The system includes Windows® based System Management Software, which simplifies and greatly reduces the time needed for system setup. The manager software enables system users to program the switcher remotely and to allow the external storage of all the setup items in the switcher. It can also be used to log all system activity, including events.

Satellite Operation

The CM6800E-48x8 member of the CM6800 Series can be operated as a satellite to 9740/9760 System large matrix switches. This valuable configuration allows the CM6800E to act as a hub to a 9740/9760 System to effectively reduce the number of coax runs going back to the 9740/9760 System, and allows up to 96 appropriately configured video inputs on the CM6800 to be viewed and controlled, either locally (at the satellite end), or remotely (by 9740/9760 keyboard operators). Eight video interconnections, (tie lines) and one device control line enable this process.

On-Screen Menus

The user enabled character display shows time and date, operation mode, camera number, and a 20-character title for quick, easy identification of the on-screen video. Built-in video loss detection monitors all incoming video signals to alert operators or technicians in the event of a camera failure.

Flexible Communications

The CM6800's Data Communications Ports provide for a wide selection of local and remote keyboards, as well as a direct interface to PelcoNet, desktop PCs, multiplexers, and many system products. The system's Local Control Outputs allow for a "hardwire" connection from CM6800 directly to positioning system using Pelco P and D protocol. A wide selection of additional peripheral components, available to the 6800 System Series, allows for system expansion to include alarms, relays, contacts, and keyboards.

Local relays and logical outputs can be activated from a system keyboard or as the result of an alarm.

Worldwide Application

The System 6800 Series includes Multiple Language Menus – English, French, German, Italian, Spanish, Russian, Polish, and Portuguese – making the system useful in a number of countries and language groups.

Selectable On-Screen Menus

Selectable On-Screen menus provide for very user-friendly programming of all System 6800 parameters, and can be displayed on any monitor (password protected).

Expansion Capable

A convenient Expansion Kit allows two CM6800E units to work as one system – greatly expanding your future video growth needs. Or, order two units as an expanded system under a single part number (CM6800–96x16).
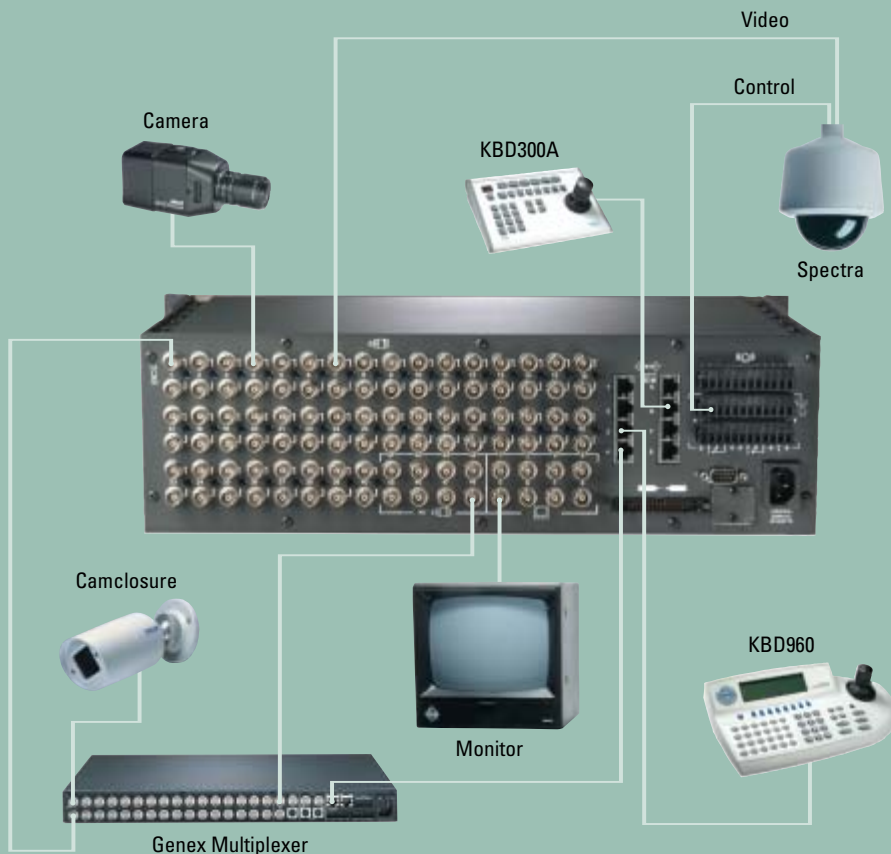
IP Capable

With the use of a PelcoNet network/video interface, System 6800 users can view and control cameras remotely with the use of standard Web browser software – all from their desktop PC.

Keyboard **Capabilities**

- Logical Camera Selection and Camera Numbering – No need to memorize camera numbers.
- Simple Macros Automate System – Eliminate the need for constant manual control.
- Control of Genex Multiplexers – A direct interface to Pelco Genex Series multiplexers.
- Fully Proportional Joystick – For extremely smooth and reliable control of camera positioning systems.
- User-Programmable Keys – Program and label 24 "soft keys" for installation-specific viewing areas.

Powerful Technologies for Fast, Flexible & Innovative Installations

Video

Control

Camera

KBD300A

Spectra

Camclosure

Monitor

KBD960

Genex Multiplexer

CM6800–32x6
This model meets the expectations of those not needing the expanded capabilities available to other members of the 6800 series. Although not expandable or satellite capable, it nevertheless utilizes the same powerful engine used by its larger cousins to operate its smaller feature-set.

CAPABILITIES
Inputs: 32
Outputs: 6
Expandable: No
Alarms: 8 On-Board
PTZ Ports: 1
Aux: 2

CM6800E–48x8

CAPABILITIES
Inputs: 48
Outputs: 8
Expandable: Yes
Alarms: 8 On-Board
PTZ Ports: 2
Aux: 3
CM9760 Satellite Capable: Yes

CM6800–96x16
Stand-Alone

CAPABILITIES
Inputs: 96
Outputs: 16
Expandable: No
Alarms: 16 On-Board
PTZ Ports: 4
Aux: 6
CM9760 Satellite Capable: Yes

System 6800 is compatible with a wide selection of Pelco system keyboards and accessories. Mix and match system keyboards – choose the right keyboard for each operator.

KBD960 System Keyboard

Provides complete system control and programming functions. Uses Vector-Solving, Variable-Speed joystick with twist Zoom Control for smooth, responsive operation. Also offers 24 programmable soft keys and integral LCD display for easy, error-free control of all system devices. Communicates via RS-485, "M" protocol.

KBD300A System Keyboard

Provides complete system control and programming features. Uses Vector-Solving Variable Speed joystick with twist Zoom Control for smooth, responsive operation. Communicates via RS-422.

KBD200A System Keyboard

Provides complete system control and programming with push-button for P/T/Z functions. Communicates via RS-422.
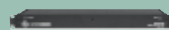
KBD100 Limited Function Keyboard

Provides complete system control and programming but does not allow for P/T/Z functions or Multiplexer control. Communicates via RS-422.

Alarm Interface Unit (ALM2064)

Provides up to 64 additional Alarm Inputs. Four units may be cascaded for an additional 256 alarm inputs. Communicates via RS-485, "M" protocol.

Relay Interface Unit (REL2064)

Provides an additional 64 Relay Outputs per unit. Four units may be cascaded for an additional 256 controllable relay outputs. Communicates via RS-485, "M" protocol.

CM6800–Kit (Optional)

Provides the necessary cabling and instructions for combining two CM6800E - 48x8 units into an expansion configuration of 96-inputs by 16-outputs.