

# KBD300A Keyboard

## FULL-FUNCTIONALITY, FIXED/VARIABLE SPEED, PTZ CONTROL

### Product Features

- Keyboard to Control:
  - CM6700/CM6800/CM9760-SAT/CM9700 Matrix Switchers
  - DX8100 Series Digital Video Recorder
  - Genex® Multiplexer When Used with CM6700 and CM6800
  - Up to 16 Receivers Directly from Keyboard (such as Spectra®, Esprit®, and ExSite®)
- Automatic Recognition of CM6700/CM6800 and Direct P Modes
- Joystick Control of PTZ Functions
- Preset Position and Pattern Control
- Auxiliary Operation
- Auto/Random/Frame Scanning
- Programming of CM6700/CM6800/CM9760-SAT/CM9760-MDA



The **KBD300A** keyboard is a full-function, desktop keyboard controller that can be used in a variety of applications.

A barrel-type joystick provides precise pan and tilt control of fixed speed and variable speed receivers. Twisting the joystick clockwise or counterclockwise zooms the lens in or out.

Keys select cameras and monitors; operate presets, patterns, auxiliaries, and sequences; open and close the iris; zoom and focus the lens; and start and stop auto, frame, and random scanning.

The keyboard can be used in six modes of operation: CM6700/CM6800/CM9760-SAT Mode, Direct P, Direct D, CM6700 ASCII, CM6800 ASCII/DX8100, and CM9760-MDA. The **KBD300A** keyboard automatically recognizes CM6700/CM6800 and Direct P modes.

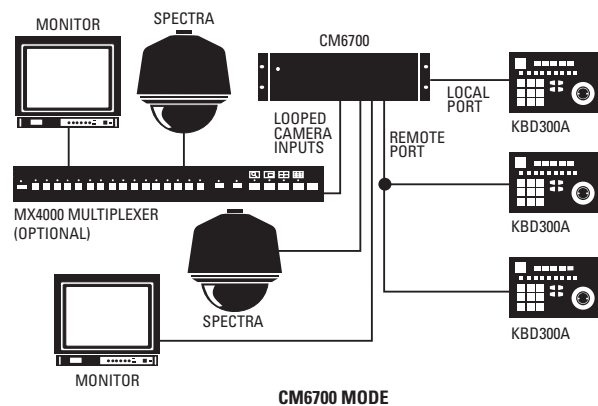
In the first two modes, the keyboard is plugged into a CM6700, CM6800, or CM9760-SAT switcher/controller unit (SCU) and is used to program and operate the SCU. The maximum number of keyboards per unit is eight (CM6700 and CM6800-32X6), sixteen (CM6800-48X8, CM6800E-48X8, and CM6800-96X16) or four (CM9760-SAT). In CM6700/CM6800 applications, the keyboard can control cameras connected directly to the SCU or through an MX4000 Series Genex multiplexer.

If you do not need all the features of the CM6700/CM6800 SCU, but want the same keyboard functionality, then one keyboard can be wired directly to camera receivers in Direct P or Direct D mode (KBD-KIT required).

Up to 16 receivers can be wired to a keyboard; however, a switcher such as an MS500 or VA6100, is required to route video to the monitor. Direct P or Direct D mode uses two-wire control of receivers using Pelco's P or D protocol.

The **KBD300A** keyboard can also be used for on-screen programming of the CM9760-MDA master distribution amplifier.

When used with the CM9760-DMR data manager, up to four **KBD300A** keyboards can be used to control a single Pelco P or D protocol device such as a Spectra dome or Esprit/ExSite positioning system.



# TECHNICAL SPECIFICATIONS

## MODEL

KBD300A Desktop keyboard with full switching and programming capabilities, plus joystick control of PTZ functions

## ELECTRICAL

Input Voltage 12 VAC or  $\pm 12$  VDC  
Power Consumption 5 watts  
Keyboard Connector RJ-45, 8-pin, modular (female)  
Keyboard Communication

### CM6700/CM6800/CM9760-SAT Mode

Interface RS-485  
Protocol Pelco ASCII  
Baud 9600  
Communication Parameters 8 data bits, odd parity, 1 stop bit

### CM6700 ASCII Mode

Interface RS-422  
Protocol Pelco ASCII  
Baud 9600  
Communication Parameters 8 data bits, odd parity, 1 stop bit

### CM6800 ASCII Mode/DX8100

Interface RS-485  
Protocol Pelco ASCII  
Baud 9600  
Communication Parameters 8 data bits, odd parity, 1 stop bit

### Direct P Mode

Interface RS-485  
Protocol Pelco P  
Baud 4800  
Communication Parameters 8 data bits, no parity, 1 stop bit

### Direct D Mode

Interface RS-485  
Protocol Pelco D  
Baud 2400  
Communication Parameters 8 data bits, no parity, 1 stop bit

## GENERAL

Keyboard Keypad Electromechanical  
Joystick 3-axis, vector-solving, with twisting, return-to-center head  
Display Red LED, 7-segment, 2 cells  
Dimensions 2.25" H x 9.50" W x 7.125" D (5.72 x 24.13 x 18.10 cm)  
Weights  
Unit 2.5 lb (1.12 kg)  
Shipping 5 lb (2.26 kg)

## ENVIRONMENTAL

Ambient Operating Temperature 20° to 120°F (-7° to 49°C)  
Humidity 10% to 90%, non-condensing

## CERTIFICATIONS/PATENTS

- CE, Class B
- FCC, Class B
- UL/cUL Listed
- C-Tick
- GOST
- U.S. Patent D-464,654

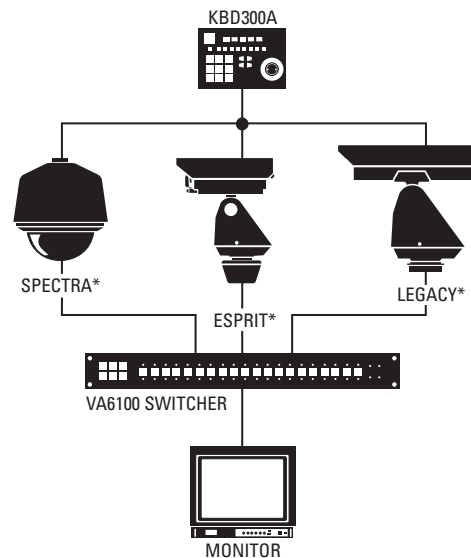
## SUPPLIED ACCESSORIES

25-foot (7.6 m) RJ-45 data cable

## OPTIONAL ACCESSORIES

**KBDKIT** Remote keyboard wiring kit. Required if connecting KBD300A keyboards to the Remote Keyboard Port on the SCU (CM6700/CM6800 Mode) or when using a single keyboard in Direct Mode applications. Includes two RJ-45 wall blocks and one 120 VAC to 12 VAC transformer. Maximum cable distance for RS-422/RS-485 communication over 24-gauge wire is 4,000 feet (1,219 m). Use shielded twisted pairs cable that meets basic requirements for RS-422/RS-485 applications. (One wall block and transformer required for each keyboard.)

**KBDKIT-X** Same as KBDKIT except includes 230 VAC to 12 VAC transformer.



\* SPECTRA AND ESPRIT HAVE BUILT-IN RECEIVERS.  
LEGACY REQUIRES LRD41C SERIES RECEIVER.

### DIRECT MODE



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