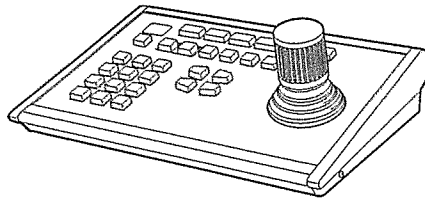# Installation/Operation

KBD300A
Universal Keyboard

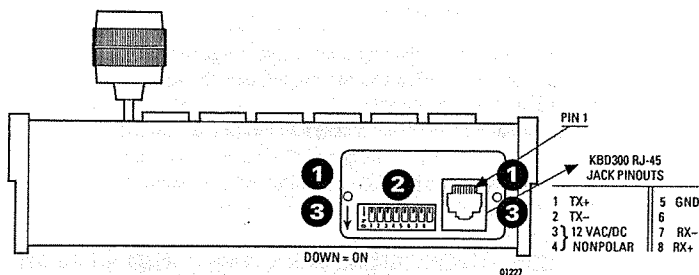## C527M-L (3/04)

3 Replace the cover plate.

Figure 11. Keyboard Rear Panel

PROGRAMMING AND OPERATION

Table D. Keyboard Functions

Circled numbers refer to Figure 13.

Function	Procedure
Select Monitor*	LED display **1** shows monitor number in run mode. Enter monitor number **15** and press MON **17** to select.
Select Camera	Enter camera number (1-16) **13** and press CAM **14** to select. **NOTE:** The CM6700 and CM6800 can be programmed to restrict some monitors from viewing certain cameras. To display a camera's view on your monitor, be sure that your keyboard shows the number of the monitor you are viewing and be sure that the CM6700 or CM6800 has not been programmed to restrict viewing of that camera.
Pan/Tilt/Zoom	Move the joystick **11** until the camera reaches the desired position. To increase the speed of movement, move the joystick further from center. Twist the joystick clockwise to zoom in, counterclockwise to zoom out.
Lens Control	Focus, iris - Press and hold the appropriate lens control key **12** until the desired effect is seen.
Presets	Enter preset number (1-66) **15** and press PRESET **9** to put camera in preset position. To program, position camera, enter desired preset number (1-66) **15**, and hold down PRESET **9** for two seconds. In CM6700 and CM6800 modes, a label appears on the monitor. Use F1 and F2 **5** to edit the label, then select SET and press ACK **16** or tap the joystick **11** to the right and release.

*This function is not used in Direct Mode.

Table D. Keyboard Functions (continued)

Function	Procedure
Patterns	Programming and operation varies with the receiver type. **Spectra® domes (before version 3.0)** can use one long (1 minute) or two short (0.5 minute) patterns. **Spectra domes (version 3.0), Spectra II™ domes and Esprit® Integrated Positioning Systems** can use one long (1.5, 3 or 6 minutes) or two short (0.75, 1.5 or 3 minutes) patterns. (Select pattern lengths at the positioning system's menu.) **Spectra III™** can use four patterns of varying length (all drawing from the same block of memory, which is almost infinite). To program Spectra and Esprit, select a camera (1-16) 🔴, select a long pattern by holding down PATTERN 🔴 for two seconds, or select short pattern 1 or 2 by entering 1 or 2 🔴 and holding down PATTERN 🔴 for two seconds. The monitor will indicate the programming function is active. Move the camera position 🔴 as desired for the pattern and press ACK 🔴 to close the programming function. To run a long pattern, press PATTERN 🔴. To run a short pattern, enter 1 or 2 🔴 and press PATTERN 🔴. Move the joystick 🔴 or call a preset 🔴 to stop. Direct Mode is the same as above, except: Do not program a pattern with turbo pan on (switch 6). To program Spectra III, enter 95, and then hold down PRESET 🔴 for about 5 seconds until the main menu appears. Use the joystick to position the cursor beside Patterns and press IRIS OPEN 🔴. Position the cursor beside Pattern Number and press IRIS OPEN 🔴. Position the cursor beside Program Pattern and press IRIS OPEN 🔴. Follow the directions displayed on the monitor. To run a Spectra III pattern, press the pattern number (1-4) 🔴 and then PATTERN 🔴. Move the joystick 🔴 to stop.
Sequence*	Sequence steps through all 16 cameras. Camera number, camera title, sequence status, and time/date are shown on the monitor. Press PREV 🔴 to step back one camera. Hold for two seconds for a backward sequence. Monitor shows **B**. Press during sequence to speed up. Press during a forward sequence to reverse. Press NEXT 🔴 to step forward one camera. Hold for two seconds for a forward sequence. Monitor shows **F**. Press during sequence to speed up. Press during a backward sequence to go forward. Press HOLD 🔴 to hold a sequence. Monitor shows **H**. Press HOLD to resume. Manually select a camera or press CAM 🔴 to turn off a sequence. Monitor shows **O**.
Macro Sequence*	Enter 1 or 2 🔴 and press MACRO 🔴 to start a group camera sequence. Monitor shows **M**. Refer to your switcher manual for macro/sequence programming.
Multiplexer Displays*	Press SHIFT 🔴. Shift key LED 🔴 lights. The function keys F1 through F3 and the auxilary keys can now be used to display the images from multiple cameras on the monitor. F1/LATCH: Zoom F2/OFF: PIP display F3/MOM: Quad display AUX ON: 9-screen display AUX OFF: 16-screen display

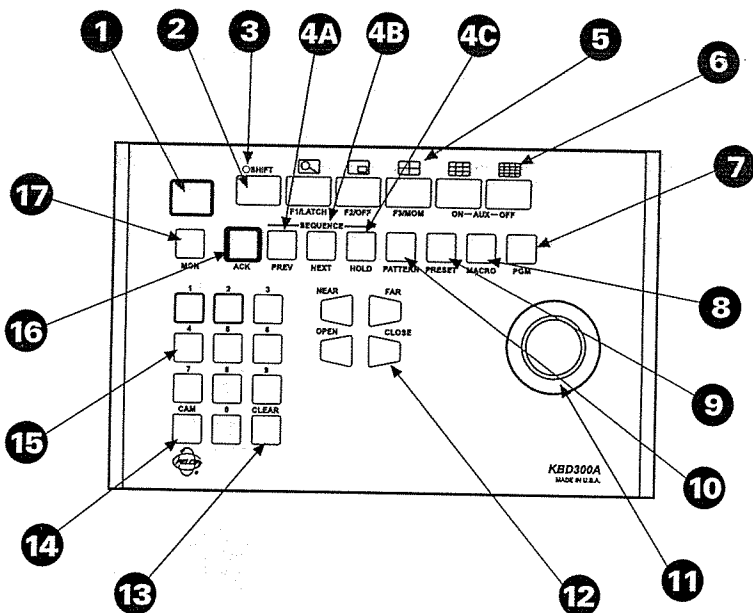| Function	Procedure
Auxiliaries/ Relays	**For the CM6700:** F1 – F3 ⑤ control only the auxiliaries built into the CM6700 SCU. These outputs can be programmed for momentary, keyed, latched, or alarm operation. Refer to the CM6700 manual for programming instructions. F1/LATCH: Activate/deactivate auxiliary 1 relay.* F2/OFF: Activate/deactivate switcher auxiliary 2 TTL output.* F3/MOM: Activate/deactivate switcher auxiliary 3 TTL output.* The AUX ON and AUX OFF keys ⑥ control the auxiliaries in receivers. Enter the auxiliary number and press the AUX ON key to turn on. Hold, and then release for momentary functions. Enter the auxiliary number and press the AUX OFF key to turn off. **For the CM6800:** F1-F3 ⑤ can address auxiliary functions on the CM6800 and on the REL2064 (a separate auxiliary relay box) to provide additional auxiliary points. F1/LATCH: Enter the auxiliary number and press and release F1 to turn on an auxiliary (latching). F2/OFF: Enter the auxiliary number and press and release F2 to turn off an auxiliary (latching). F3/MOM: Enter the auxiliary number and press and hold down F3 to turn on an auxiliary (momentary). Release F3 to turn off the auxiliary. **Direct Mode:** In Direct Mode, F1- F3 ⑤ have no function. LED ① shows receiver auxiliary number for two seconds after the AUX ON or AUX OFF key ⑥ is pressed.
Acknowledge	Press ACK ⑯ to acknowledge an alarm (or to halt pattern programming).
Alarm*	Refer to the CM6700 or CM6800 manual for further information on alarms.
Program (CM6700) (CM6800)	**For the CM6700:** To program the CM6700 switcher, press PGM ⑦. Follow the programming procedure in the CM6700 manual. LED display ① shows P in program mode. To exit, navigate to the RETURN field and press ACK ⑯ or tap the joystick ⑪ to the right and release. **For the CM6800:** To program the CM6800 switcher, press PGM ⑦. Follow the programming procedure in the CM6800 manual. To exit, navigate to the RETURN field and tap the joystick ⑪ to the right and release. Or, press the PGM key ⑦ to return to the previous screen or menu.
LED	LED ① shows monitor number (in CM6700 and CM6800 modes) or camera/receiver number (in Direct Mode) and P (in Program Mode).
Firmware Version	LED ① flashes for a few seconds to show firmware version on power up (not functional on versions prior to 4.0).
Clear	Press CLEAR ⑬ to cancel a number that has been entered. (CM6700/ CM6800 modes only.) In Direct Mode, this key erases any numerical entries entered and redisplays the current camera number selected.
Infrared Filter (IR Cut Filter)	This function applies to Spectra® color/black-white model SD5BCBW only. a. To turn on the filter, press 8, 8, PRESET ⑨. b. To turn off the filter, press 8, 9, PRESET ⑨.
Shift*	Press SHIFT ② to allow the keyboard to send multiplexer commands.

*This function is not used in Direct Mode.

Figure 12. Keyboard Functions

Table E. KBD300A Button Functions

Reference Number	Description
1	LED display
2	Shift key
3	Shift key LED
4A-C	Sequence keys: Previous, Next, Hold
5	Function keys F1/Latch, F2/Off, F3/Mom control auxiliaries. With Shift on they control multiplexer display.
6	The AUX ON and AUX OFF keys control receiver auxiliaries. With Shift on they control multiplexer display.
7	Program key
8	Macro sequence key
9	Preset key
10	Pattern key
11	Joystick
12	Focus and iris keys (iris keys can be used to scroll through menus on the CM6800 only)
13	Clear key
14	Camera selection key
15	Keypad (numbers 1 through 0)
16	Acknowledge key
17	Monitor selection key