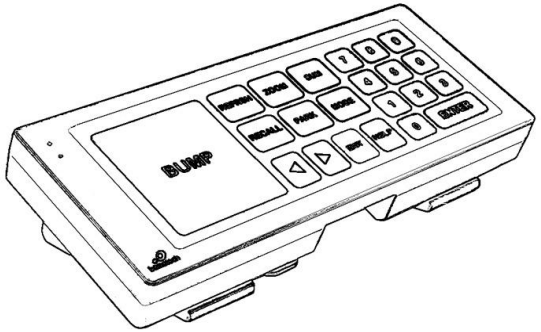
INSTALLATION GUIDE

KB9000 Programmable Touch Bumpbar

The KB9000 is a fully programmable bumpbar keypad with touch operations. With the advanced projected capacitive touch technology, the KB9000 provides reliable and durable touch operations that cannot be achieved with resistive contacts. The user friendly programming software helps users to customize the bumpbar layouts to desired number of keys, key locations, key dimensions and key codes that meet the unique requirement of each application and maximize operation efficiency.



HARDWARE INSTALLATION

Component Placement

The following is recommended when you plan the system setup:

- Place the KB9000 so that you can use the mounting brackets of the unit.
- Place the KB9000 so that the beeps from the speakers can be heard.
- Place the KB9000 so that the LED indicator on the unit can be seen.
- Place the KB9000 above grill/counter level, out of the way of possible spills.

Mounting Instructions

Mounting brackets are provided to facilitate mounting the KB9000 on the counter, under the display monitor bracket or under shelves. The unit also has standard 75mm x 75mm VESA mounting holes for mounting on an arm, to a wall, or from the ceiling with standard VESA mounting brackets. The installer should insure that the KB9000 is mounted at positions conveniently accessed by users and as close to display monitors as possible for efficient operations.

Connections

The KB9000 is available with different cables to match with the connection requirement of the host controller:

1. RJ connector - for LS3000/LS6000/LS6100 controller connections
2. USB connector - for computer USB port connections
3. PS/2 connector - for computer PS/2 port connections

Connecting KB9000 to KDS controller

1. Connect the RJ-RJ interface cable connector to the KB9000.
2. Connect the other RJ11 connector of interface cable to the KDS controller (such as LS6000) bumpbar connector.

Connecting KB9000 to computer USB port

1 Connect the USB interface cable RJ11 connector to the KB9000.
2 Connect the interface cable USB connector to the computer.

Connecting KB9000 to computer PS/2 port

1 Turn off power of computer and connect the PS/2 interface cable RJ11 connector to the KB9000.
2 Connect the interface cable PS/2 connector to the computer and turn on the computer.

LEGEND SHEET INSTALLATION

The KB9000 legend sheet can be installed or replaced easily with the following simple steps.

1 Remove the legend cover
Pull open the cover from the bottom near the interface connector to unlatch it and then pull open the cover to remove it.

2 Replace legend sheet into the cover
Remove the original legend sheet from the cover and insert the new legend sheet face down. Make sure that the top left corner of the legend sheet matches with the top left of cover indicated by the 2 LED holes.

3 Reinstall the legend cover
Leaving the legend cover and legend sheet facing down on flat surface, orientate the KB9000 face down matching the cover, align and insert it into the cover. Press the KB9000 such that all sides fit into the cover.

PROGRAMMING THE KB9000

1. **Connecting the Keyboard**
   For PS/2 versions: Turn off power of the PC. Connect the programmable keyboard to the PC with the special interface cable provided. Plug the standard PC keyboard to the female PS/2 connector on the interface cable and the male PS/2 connector to the computer.

   For USB versions: Connect the programmable keyboard to any USB port on the computer.

2. **Starting the Programming Utility**
   Start the Programming Utility by double clicking on the “KB9Utility.exe” icon in the folder where the utility is installed.

3. **Preparing the Template**
   The utility starts with a blank template (all key definitions are blank). An existing template can be brought into the utility as a starting point for editing. There are 2 ways to get existing template files into the utility -- “OPEN” from a template file stored on PC, or “READ” from the KB9000 that contains the previously programmed template. Click on "File Open" or "Read from KB9000" toolbar buttons to access these functions. Refer to the KB9000 Programming Manual for details of editing key layout and key definitions.

4. **Writing into the Keyboard**
   It is strongly advised that the template should be first saved into a template file for future reference and for programming multiple keyboards. As legend design properties such as key colors and key labels are not saved into the KB9000, these information can only be saved in the template files. After saving the file, click "Write in KB9000" button on the toolbar to write the template into the KB9000.

For detail programming operations, please refer to the KB9000 Programming Utility User Guide.

GENERAL SPECIFICATIONS

CHARACTERISTICS

Key Operations	Projected Capacitive Touch
Number of keys	64 maximum
Key code memory	Around 1,400 key strokes total
Key layout area	6.93in x 2.52in (176mm x 64mm)
Key operation feedback	Audio beep and LED indicator
Reliability	>30 million touch operations

MECHANICAL

Net weight without bracket	0.59 lbs (0.27Kg)
Net weight with bracket	1.17 lbs (0.53Kg)
Dimension without bracket (W x D x H)	8.54" x 3.54" x 1.06" (217 x 90 x 27mm)
Dimensions with bracket attached (W x D x H)	8.54" x 4.21" x 2.56" (217 x 107 x 65mm)
Mounting options	Angle bracket and VESA mounting (75mm)

ELECTRICAL

Input voltage	5VDC
Current consumption	125mA max, 80mA nominal

ENVIRONMENTAL

Operating temperature	0°C to 50°C
Relative humidity	80% max, non-condensing

INTERFACE CABLES

PS/2	RJ-to-PS/2 or RJ-to-RJ cable (for LS6000/LS6100)
USB	RJ-to-USB (Type A)