

KB-117E Series



1U 19" LED & Keyboard Control Console  
with Touch Pad Mouse  
KB-117E Series  
User manual

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## Introduction

Thank you for purchasing LED console KVM server management solution. Designed for IT professionals the 1 port KB-117E series leverages the power of existing server networks with minimal intrusion. Highly efficient it allows centralized access and control hundreds of computers (via cascading) from an integrated 1U console drawer; with built-in 17" LED display, keyboard and touchpad.

The KB-117E series is designed to deliver considerable return on investment; saving time money and valuable server room real estate, it can be rack mounted at any user-height. With a host of advanced features designed to protect your investment, the series includes; intelligent OSD (on screen display) menus.

Whether it's in educational, government, or corporate sectors, the KB-117E series provides network managers and it managers a stable management tool for consolidated server access and control.

## Applications

The KB-117E offers it managers and mis staff consolidated control of hundreds of computers via a single integrated console. Applications include;

- ISPs / IDCs
- Test labs
- Data centers & server firms

## Overview

### OSD (On Screen Display)

An intelligent menu system designed to easily access and control multiple servers.

### Video Resolution

The 17 " LED monitor supports 1280 x 1024 @75hz (DDC, DDC2, DDC2B)

### Sliding (1U) Console Drawer

The entire LED KVM console simply slides away into a compact 1U rack space when not in use.

## Features

- Single-Rail Sliding console for any 1U (19") system rack
- Lockable rail (Screw type) on both ends to prevent the unit from sliding out during transportation
- 430mm deep, short version with adjustable rack slides for rack depth from 430 to 977mm
- Foldable handle saves more space
- 17" LCD display, integrated console keyboard / touchpad in a 1U rack drawer
- Anti-Glare surface treatment
- 104-key full size keyboard with Touch Pad mouse
- RGB analog LCD display up to 1280x1024 @ 75hz with 300cd/m<sup>2</sup> brightness (DDC, DDC2, DDC2B)
- External attached power adapter
- Available with PS/2 (KAB-102E) or USB (KAB-102U) interface

- Supports Windows 9x / NT / 2000 / 2003 / ME / XP / Vista / 7 / 8 / NetWare 5.0 Linux Free BSD and many more
- No software required for installation

### **New Rackmount Advantages**

- One person installation saves valuable human resources and time
- Quick release rack-mount draw thumbscrews
- Adjustable rack slides for convenient positioning in 430~977mm pattern depth

### **Package Contents**

|                          |                      |
|--------------------------|----------------------|
| Rackmount LED KVM drawer | 1                    |
| Power adapter            | 1                    |
| Bracket                  | 2                    |
| User manual              | 1 (CD)               |
| Combo cable              | 1 (KAB-102E default) |

Please check to make sure that each item of the above list is included in your KB-117E package. Contact your dealer immediately if any item is missing or damaged in shipment.

### **Equipment Requirements**

#### **Cables**

It is highly recommended that you use only our KVM cable sets. These cables offer the highest quality possible to ensure optimal data transmission. Our

KVM cables feature micro-cable construction and are molded together for a neat and organized setup.

All-in-one KVM cable set includes an industry-standard, coaxial VGA cable and nickel-plated connectors for high-resolution applications. The following cables are recommended for your KB-117E KVM installation:

**Single Installation / Multiple Installations (cascaded);**

- KAB-102E(PS/2 1,8m)                      KAB-102U (USB 1,8m)
- KAB-103E(PS/2 3m)                      KAB-103U (USB 3m)
- KAB-105E(PS/2 5m)                      KAB-105U (USB 5m)

**Power Supply**

- AC 100-240v 50-60Hz is recommended

**Operating Systems**

- Windows® 98/Me/nt/2000//2003 server, Windows 7/8, freeBSD, Linux®, Novell® NetWare® 4.x/5.x

**Computers**

- Keyboards - 6 pin PS/2 Mini Din
- Mice - 6 pin PS/2 Mini Din
- Monitors - VGA ,SVGA, MultiSync® (DDC, DDC2, DDC2B)

## Specifications

|                       |  |            |
|-----------------------|--|------------|
| Model Number          | KB-117E  |            |
| PC Port               | 1  |            |
| Panel                 | 17,0" SXGA+  |            |
| Backlight             | W-LED  |            |
| Resolution            | 12080 (H) x 1024 (V)   |            |
| Pixel Pitch           | 0,264mm x 0,264mm  |            |
| Pixel Arrangement     | RGB Vertical Stripes   |            |
| Display Mode          | Normally White   |            |
| Contrast Ratio        | 700:1  |            |
| Support Color         | 16,2 M. colors   |            |
| VGA Connector         | VGA HDDB 15 pin Female type                                  |            |
| Keyboard connector    | PS/2 Keyboard mini Din 6 pin Female type, or USB A-Type plug |            |
| Mouse connector       | PS/2 Keyboard mini Din 6 pin Female type, or USB A-Type plug |            |
| Housing               | Metal  |            |
| A/C Input             | 100 ~240V 1,5A, 50 ~ 60Hz                                    |            |
| Operation Temperature | 32 ~104°F (0 ~40°C)  |            |
| Storage Temperature   | -4 ~140°F (-20 ~60°C)  |            |
| Humidity              | 0 ~90% Non-Condensing  |            |
| Dimension             | W19 xD 17 c H 1,74 inch<br>(482,4 x 430 x 44,196mm)          |            |
| Housing               | Metal  |            |
| Weight                | 10kg net   | 14kg gross |

**Note.:** Specifications Are subject to change without notice.

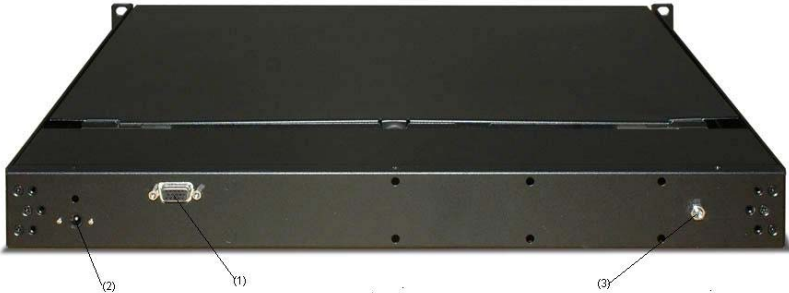
## Display Diagrams

### Front View



1. Console Drawer Handle
2. LED display (17")
3. LED display control (see the LED display guide for details)
4. Power switch
5. Touchpad
6. Rack mounting brackets
7. Keyboard





- 1. PC Port
- 2. DC Input
- 3. Ground stud

## Installation

### Where to Place the Switch

The enclosure of the KB-117E switch is designed for standalone or rack-mount configuration. The switch is natively rack-mountable in a standard 1U (19") server rack. Rack-mount hardware is included with your switch for a sturdy rack installation.

### Cautions and Warnings

Avoid placing cables near machines that create electrical noise such as fluorescent lighting, air conditioning equipment, etc.

### Important Information

Before you begin, make sure that power to all the computers you will be connecting has been powered off.

To prevent damage to your installation due to ground potential difference, make sure that all computers on the installation are properly grounded. Failure to follow these instructions can result in damage to computers and / or the switch.

### Installing the Switch into a Server Rack

- Unlike other traditional rack mounted LED KVM units the KB-117E series requires only one person for installation. The KB-117E Series includes 2 adjustable sliding rack mount brackets for installation in 19-inch rack systems. The sliding brackets feature adjustable positions from 430 ~1000mm pattern depth

### Important Information

Installing and or removing the switch (module and chassis) improperly could void your warranty. If you are uncertain what to do please contact our technical support.

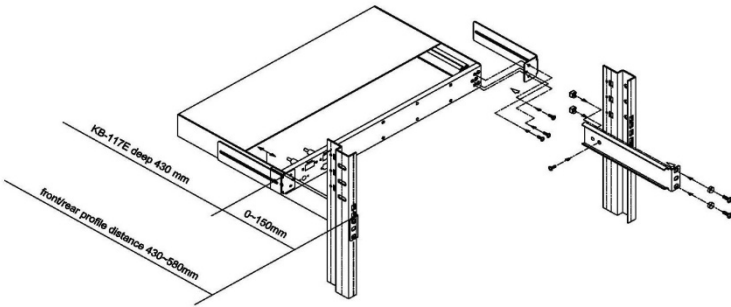
## Hardware Installation

Please follow these simple steps to install the 19" LED drawer into a server rack:

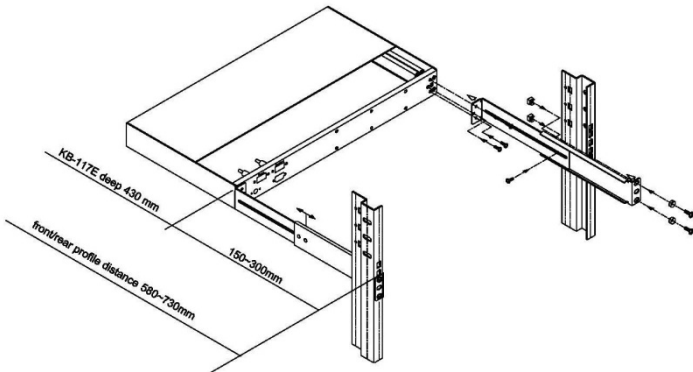
1. Adjust the sliding rack mount brackets to match the depth of your server cabinet. Fix both brackets at a desired height to the server cabinet rails.

- ( note: the slider brackets are extendable to 430~1000mm pattern depth

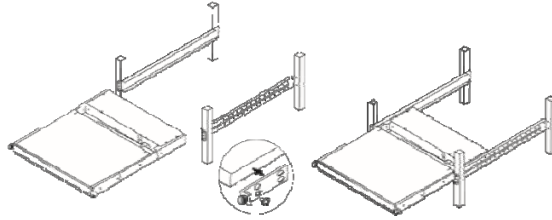
For Rack Deep 600~800 mm



For Rack Deep 800~1000 mm



2. Install hangers to both sides of front-end bracket. Gently slide the 19" LED drawer into the fixed brackets of the rack rail assembly.




3. Fasten the front-end bracket screws. Your 19" LED drawer is now ready for use; locate the handle, slide out the console and flip the LED cover.

(note: the front-end bracket screws must be fastened to properly secure the 19"LED drawer to the server rack. )

## Menu Function

### OSD Control Button

1.  **ON/OFF** : POWER On / Off  
( When Powered on the LED will Light on)
2. **+** : During OSD display, moves cursor up
3. **MENU** : Display OSD menu, as well as the "Select"key
4. **-** : During OSD display, moves cursor down
5. **EXIT** : Exit Menu, Automatically adjust the clock, phase, H-position and V-position







**MENU+ POWER** : Test color pattern (without input signal)

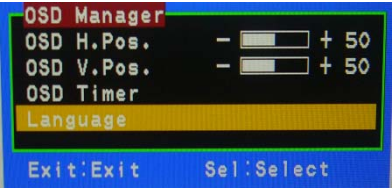


**OSD lock/unlock**: Press + / - simultaneously.



**OSD function list**

|  |  |
|--|--|
|  | <p><b>Picture</b></p> <p><i>Adjusting picture select on three set brightness, dim brightness, contrast)</i></p>      |
|  | <p><b>Picture user color</b></p> <p><i>Adjusting the brightness, dim brightness and contrast of the picture.</i></p> |
|  | <p><b>Brightness</b></p> <p><i>Adjusting the brightness of the picture.</i></p>                                      |

|   |  |
|---|--|
|  <p>Contrast<br/>- [Slider] + 50<br/>Exit:Exit</p>   | <p><b>Contrast</b></p> <p><i>Adjusting the contrast of the picture.</i></p>  |
|  <p>Geometry<br/>H.Position - [Slider] + 51<br/>V.Position - [Slider] + 46<br/>Clock - [Slider] + 62<br/>Phase - [Slider] + 0<br/>Exit:Exit Sel:Select</p> | <p><b>Geometry</b></p> <p><i>Adjusting the horizontal position, vertical position, frequency and phase of the picture on the screen.</i></p> |
|  <p>Color<br/>9300k<br/>6500k<br/>User Color<br/>Exit:Exit Sel:Select</p>  | <p><b>Color</b></p> <p><i>Choosing the standard color term 9300k, 6500k or define User Color</i></p>   |
|  <p>User Color<br/>RED - [Slider] + 50<br/>GREEN - [Slider] + 50<br/>BLUE - [Slider] + 50<br/>Exit:Exit Sel:Select</p>                                   | <p><b>User Color</b></p> <p><i>Producing a desired color by adjusting Gain of red, or green, or blue to get the color you liked</i></p>      |

|  |  |
|--|--|
|  <p>The screenshot shows the OSD Manager menu with options: OSD H.Pos. (with a slider and +50), OSD V.Pos. (with a slider and +50), OSD Timer, and Language (highlighted). At the bottom, it says 'Exit:Exit' and 'Sel:Select'.</p> | <p><b>OSD Manager</b></p> <p><i>Setting the position of OSD menu.</i></p>  |
|  <p>The screenshot shows the OSD Timer menu with options: 10 SEC, 15 SEC, and 30 SEC (highlighted). At the bottom, it says 'Exit:Exit' and 'Sel:Select'.</p>  | <p><b>OSD Timer</b></p> <p><i>Setting the duration time of menu keeping on the screen for once operation.</i></p>  |
|  <p>The screenshot shows the Language menu with options: English (highlighted), Fran9ais, Italiano, Deutsch, Espa1ol, 中文(繁), 中文(简), and 日本語. At the bottom, it says 'Exit:Exit' and 'Sel:Select'.</p>                              | <p><b>Language</b></p> <p><i>Supporting multi-languages, selecting a desired language (English, France, Italiano, Deutsch, Espanol, traditional Chinese, simple Chinese, Japanese)</i></p> |
| <p><b>All Reset</b></p>  | <p><b>All Reset</b></p> <p><i>To restore all the factory defaults.</i></p>   |



**FCC Certifications**

This equipment has been tested and found to comply with the limits for a class b digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not install LED and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Shielded interface cables must be used in order to comply with emission limits.
- You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.
- This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**CE Mark Warning**

This is a class b product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.