



**Hotkeys for full and view-only access control on the remote console.**

**Cabling distance 100M/330ft**

### LKV-E132

## CAT5 KVM Extender Set

**USB & PS/2 Keyboard/Mouse Support for Computer  
PS/2 console Support for Console  
100M/330ft Cabling Distance**

## Quick Installation Guide

Thank you for purchasing the **LKV-E132 CAT5 KVM Extender Set!** With our highly reliable and quality product, user can enjoy countless benefits from using this CAT5 KVM Extender Set.



**LKV-E132-TX Computer Module with Local Console**



**LKV-E132-RX Remote Console**

## Introduction

The LKV-E132 CAT5 KVM Extender Set is a new KVM extender technology that utilizes CAT5 media technology to extend your console up to 100M/330ft away. This KVM Extender Set extends your keyboard, monitor and mouse from your computer up to 100M (330ft) away on a single CAT5 UTP cable, with satisfying video quality.

The LKV-E132 CAT5 KVM Extender Set comprises two disparate units- The LKV-E132-RX and the LKV-E132-TX. The LKV-E132-RX is the Remote Console unit, or simply put, the receiver on one end of the UTP cable; while the LKV-E132-TX is the computer module w/ local console, or simply put the transmitter on the other end of the UTP cable. However, the LKV-E132-TX also provides a local console, so that user can also access the computer on local console, in addition to the remote console on the LKV-E132-RX. The LKV-E132 CAT5 KVM Extender Set allows manual adjustment of video parameters such as gain and equalization by mechanical knobs located on the front-panel.

Users can easily optimize the video screen output on the remote end by turning the mechanical knobs on the front panel. This direct and easy way of video adjustment proves to be a direct and efficient way to work out an optimized display quality based on varying cable characteristics.

It is especially useful for setting up a highly flexible computer/user topology over a long distance up to 100M/330ft away. Applicable either over an exhibition room, working floors, security room, locked server room, or other mission-critical scenarios, the LKV-E132 CAT5 KVM extender set allows you to locate your server physically away from the user due to security or spatial concerns.

## Package Contents

**Please check whether you have all those items in the box package:**

- LKV-E132-TX (Computer Module w/ Local Console) x 1
- LKV-E132-RX (Remote Console) x 1
- Slim 3-in-1 PS/2 KVM Cable x 1
- USB Cable x 1
- Power Adapters (DC9V 1A) x 1 (for Remote Console Unit)
- This Quick Installation Guide x 1

## Front & Rear View

Both the front-panel and rear-panel are where the various connectors are located on the two disparate pieces of the LKV-E132 CAT5 KVM Extender Set. Before you connect these two units to any computer, cablings or peripherals, you should get a glimpse of the main connectors you are going to encounter when you try to set up the LKV-E132 CAT5 KVM Extender system

### LKV-E132-RX Remote Console Unit



[LKV-E132-RX - Front-panel]

Applicable models: LKV-E132 CAT5 KVM Extender Set

1. Red LED indicator - Power
2. Green LED indicator Link
3. PS/2 keyboard port
4. PS/2 mouse port
5. Adjustment knob for gain
6. Adjustment knob for equalization.

[LKV-E132-RX - Back-panel]

7. Power receptacle (DC9V 1A)
8. CAT5 Extension Port [RJ-45, connect to a CAT5 UTP cable, 100M max.]
9. Monitor port [HDB15]

### LKV-E132-TX Computer Module with Local Console [Connected with the computer]



[LKV-E132-TX Front-panel]

- a. Red LED indicator - Power
- b. Green LED indicator Link
- c. PS/2 keyboard port
- d. PS/2 mouse port

[LKV-E132-TX Back-panel]

- e. CAT5 Extension Port [RJ-45, connect to a CAT5 UTP cable, 100M max.]
- f. Computer port for computer connection (integrated with PS/2 keyboard, mouse and video interface)
- g. USB port (TypeB) for computer connection
- h. Monitor port [HDB15]

## Preparation before Installation

Before you install the two pieces of the LKV-E132 CAT5 KVM Extender Set, you should have these items on the checklist ready:

1. The computer for extension should be one with either PS/2 or USB interface.



2. You should check the display mode of the computer to be no higher than 1600 x 1200 pixel dimension. And refresh rate to be one that is more commonly used such as 60Hz, etc.
3. Since the LKV-E132 CAT5 KVM extender supports only standard 5-key mouse and keyboard, any more advanced mouse/keyboard function will not be supported by CAT5 extension.
4. Use good quality UTP cable (max. 100M/330ft). Note that good quality cable will give better video outcome with longer distance span.
5. Any cabling distance longer than 100M/330ft will experience more degradation with longer span. However, good quality cable can reach out farther away.
6. The choice of layout path for the CAT5 UTP cable should not only take into account the shortest possible path, but also one that is relatively farther away from any significant electromagnetic interference source.
7. Prepare 1 or 2 sets of keyboard, mouse and monitor - one set for local console 1 and the other set for remote console.
8. There should be an available power outlet near where you locate the remote console unit.

## Out-of-the-box Installation

Take the package contents out of the box and begin installation!

### Plan the layout path and deploy the UTP cable

- Step 1.** Plan the path through which the UTP cable will be deployed across the distance between the LKV-E132-RX and LKV-E132-TX. You should choose the layout path not only base on shortest possible length consideration, but also on least electromagnetic interference.
- Step 2.** Lay out the UTP cable according to your planned path.

### Configure the LKV-E132-TX (Computer Module + Console1)

- Step 3.** Connect one end of the UTP cable to the CAT5 Extension port of the LKV-E132-TX.
- Step 4.** Connect the LKV-E132-TX to the computer (connector **f**), using the Slim 3-in-1 PS/2 KVM cable and/or the USB cable (connector **g**). (Note that if you need to connect with the USB interface, you should connect the USB cable to the computer since the Slim 3-in-1 PS/s2 KVM cable support only the PS/2 interface). The LKV-E132-TX is powered through the connector interface with the computer.

- Step 5.** Set up **Local Console**: Connect a set of keyboard, mouse and monitor to the LKV-E132-TX Console connectors (connectors **c, d, h**).
- Step 6.** Power on the computer, and check the keyboard, mouse and video output on Local Console to see if it works fine. It should work fine before you proceed to next steps.

### Configure the LKV-E132-RX (Remote Console)

- Step 7.** Connect the other end of the UTP cable to the CAT5 Extension port of the LKV-E132-RX.
- Step 8.** Connect the power adapter to the LKV-E132-RX to power it up before connecting any devices to it.
- Step 9.** Set up the Remote Console: Connect a set of keyboard, mouse and monitor to the LKV-E132-RX Console ports (connectors **3, 4, 9**).
- Step 10.** Check the keyboard, mouse and video output on the Remote Console to see if it works fine. At this time, the video might be very blurred since it is not yet adjusted and optimized.
- Step 11.** Adjust the video gain and equalization level by turning the two mechanical knobs on the front-panel of the LKV-E132-TX unit. By conscientiously trials, you should be able to reach an optimized video display output on the Remote Console monitor.

*For KVM Switch Console Extension: You can also use the CAT5 KVM Extender to extend your KVM Switch console; Just connect the transmitter unit (LKV-E132-TX) to the console port of the KVM Switch, and the rest of the connection is just like what has been described above. Thus, you can also extend the KVM switch console up to 100M away.*

## Configuration Hotkeys

The LKV-E132 CAT5 KVM Extender Set provides configuration hotkeys that can help you configure either the local console or the remote console for access control, view only mode as well as hotkey preceding sequence selection. There are hotkeys that are operable only on local console (on the LKV-E132-TX unit) as well as hotkey that are likewise operable on both local console and remote console. With these hotkeys, users can either block or grant access from the remote console, or toggle on/off the view-only mode on the remote console. For someone who does need to use different hotkey preceding sequence, it also provides 5 alternatives for choice. Thus, the Local Console (i.e. the TX unit) will have permanent access of the computer without limitation; the Remote Console can be enabled with full access or view-only access, or access disabled entirely.

Applicable models: LKV-E132 CAT5 KVM Extender Set

### [Local Console hotkeys]

#### Hotkey Preceding Sequence

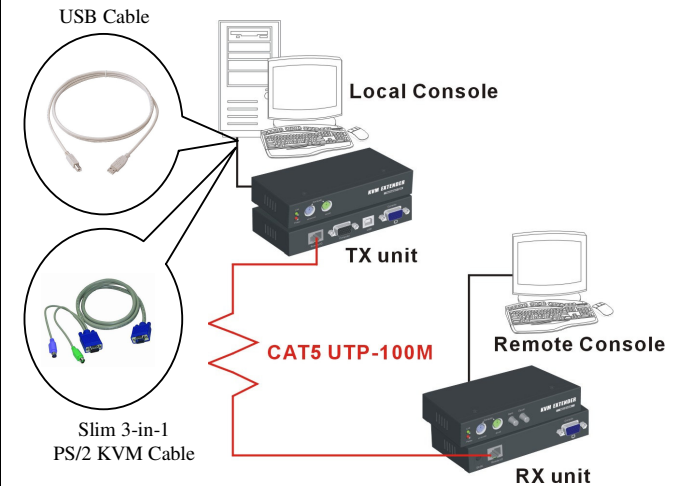
Scroll + Scroll + H + (x), x = Scroll, CAPS, F12, NUM, Esc

#### Toggle Remote Console ON/OFF

Scroll + Scroll + S Power LED flashes in fast mode

#### Toggle Remote Console View Only ON/OFF

Scroll + Scroll + K Power LED flashes in slow mode



LKV-E132 CAT5 KVM Extender Configuration Diagram

### [Remote Console hotkeys]

#### Hotkey Preceding Sequence

Scroll + Scroll + H + (x), x = Scroll, CAPS, F12, NUM, Esc

## FCC/ CE Statements

**FCC Statement:** This equipment has been tested and found to comply with the regulations 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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this Quick Installation Guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case, the user will be required to correct the interference at his/her own expense.

**CE Statement:** 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.

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