



# USB KVM EXTENDER OVER CAT. 5



**Manual**  
DS-51201

## Introduction

Thank you for purchasing the USB KVM Extender over Cat.5/5e/6. This KVM extender allows you to extend the computer's video and USB keyboard/mouse signal. Therefore, you now have a high quality and durability extension solution to control your system up to 200 meters away from your computer or KVM. With the built-in video and keyboard/mouse signal enhancement, you can gain the best video resolution quality. Additional software is not required. This product delivers perfect performance and high value to satisfy your needs.

The **USB KVM Extender over Cat.5** comprises a local unit (transmitter) and a remote unit (receiver). The local unit is connected directly to the computer (or a KVM switch system) using the supplied cables. The user console (keyboard, mouse and monitor) is attached to the remote unit. The remote and local units extend the keyboard, mouse and video signal along the Cat5/5e/6 cable. Moreover, the local unit offers dual access, enabling the connection of a second user console close to the computer.



Local Unit: Transmitter



Remote Unit: Receiver

## Features

1. Extends the Keyboard / Video / Mouse signal by a Cat5/Cat5e/6 cable.
2. Dual console operation - Control your system from both the local and remote unit.
3. Supports connection of USB keyboard/mouse for local and remote console arbitrarily.
4. Supports high resolution video - Up to 1920x1080 @ 60Hz for distances of up to 200 meters.
5. Supports VGA, SVGA and multisync monitors.
6. DDC2B support for remote monitor.
7. No software or driver installation required.
8. Compatible with most commonly used operating systems like DOS, Windows, Linux, Mac OS and Sun Microsystems.
9. Supports BIOS level operation.
10. Plug and Play.

## Important Safety Notice

*Please read below safety instructions carefully before installation and operation*

1. *Please pay attention to all the warnings and hints on this device*
2. *Do not expose this unit to rain, moisture and liquid*
3. *Do not put any stuff into the device*
4. *Do not repair the device or open the enclosure without professional person guidance to avoid electronic shock*
5. *Make sure good ventilation openings to avoid product overheating damage*
6. *Shut off power and make sure environment is safe before installation.*

## Package Contents

The product you purchased should contain the equipment and accessories shown as follows:

- 1 x Local Unit
- 1 x Remote Unit
- 1 x USB cable
- 2 x External power adaptor DC 12V
- 1 x User's Manual

## Specifications

MODEL NAME		DS-51201	
		Transmitter	Receiver
Console Connectors	VGA Output	HDB-15 (Female)	HDB-15 (Female)
	USB	Keyboard	USB Type A (Female)
		Mouse	USB Type A (Female)
PC Connectors	Video (KB/MS)	HDB-15 (Female) USB signal combined	N/A
Extension Port	RJ-45	FOR KB/MS/VGA Extension	
DDC Supported		REMOTE Support DDC2B	
Extension Cable Type & Length		CAT5, CAT5E, CAT6. Max. Length: 200m	
Video Resolution		1024 x 768@ 60fps; 1280 x 720@ 60fps 1280 x 800@ 60fps; 1280 x 1024@ 60fps 1440 x 900@ 60fps; 1660 x 1200@ 60fps 1680 x 1050@ 60fps; 1920 x 1080@ 60fps	
Video Bandwidth		380MHz	
Operating System Supported		Windows, Linux, MacOS and Sun Microsystems	
Power Supply		DC 12V Adaptor	
Power dissipation		Max 4W	
Dimension (L x W x H)		94 x 72 x 26mm	
Unit Weight		246g	243g
Housing material		Metal	
Operating temperature		-5°C ~ +70°C	
Humidity		5%~90% RH	

# Installation

## System Requirements

### Console

- VGA, SVGA, Multisync monitor capable of the highest resolution.
- USB keyboard/mouse.

### Computer

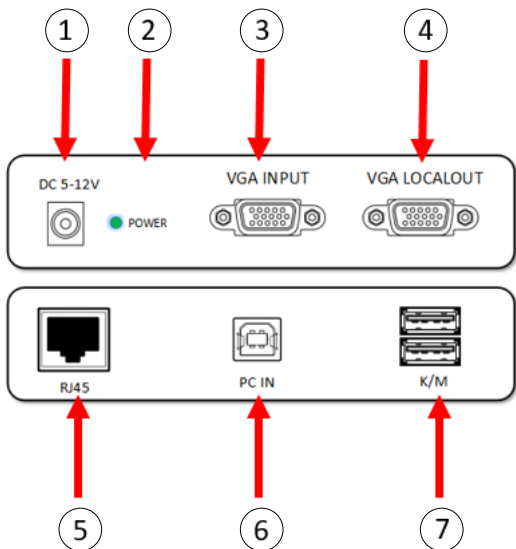
- VGA, SVGA or multisync card.
- Type A USB port for keyboard and mouse.
- Operating systems: Windows 98/98SE/2000/ME/XP/2003/Vista/7/8/10, Mac OS9/OSX, Linux Kernel 2.3 or later, Solaris 8 or later, Sun Micro OS.

### Cables

- CAT5/CAT5E/CAT6 cable to connect the remote and local unit, the supported maximum length of this cable is 200 meters. (Cable not included)
- VGA cable for computer video output ( Cable not included)
- USB type A to type B cable connect DS-51201 TX and computer

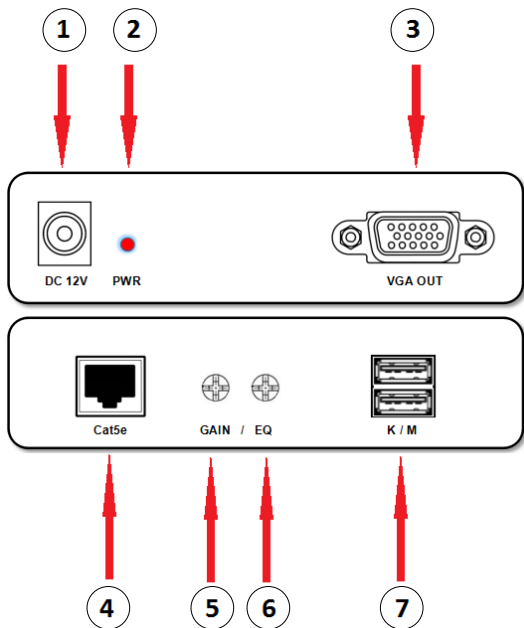
## Physical Diagram

### Transmitter



1. DC power in
2. Power LED
3. VGA input
4. VGA local output
5. RJ45 connector
6. USB PC input
7. USB keyboard and mouse

## Receiver



1. DC power in
2. Power LED
3. VGA output
4. RJ45 connector
5. GAIN: Adjust the contrast
6. EQ: Brightness control
7. USB keyboard and mouse

## Hardware Installation

1. Switch off all devices.
2. Connect your monitor, USB keyboard/mouse to the local unit, if you want to control your system at the local console.
3. Connect your monitor, USB keyboard/mouse to the remote unit, if you want to control your system at the remote console.
4. Connect the remote and local unit by using a CAT5/CAT5E/CAT6 cable; the supported maximum cable length is 200 meters.
5. Connect the 12V power supply to power on the local unit.
6. Connect the 12V power supply to power on the remote unit.
7. Connect video and/or USB keyboard/mouse of local unit and computer/KVM by using the supplied cable.
8. Turn on your computer if it was turned off.

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