

Quick Installation Guide



DX120 – TX Front View



DX120 – RX Front View

CAT5 DVI KVM Extender Over LAN w/ Audio & Mic.

4 x USB 2.0 ports for keyboard, mouse and other USB 2.0 devices

Digital Video Support Full HD 1080p up to 100M Extension
DX120

Thank you for purchasing the CAT5 DVI KVM Extender! With our highly reliable and quality product, users can enjoy countless benefits from using this KVM Extender.

Introduction

The CAT5 DVI KVM Extender Over LAN comprises two distinct units, the Transmitter and Receiver Unit. It allows fully access

and complete control of your computing resources over the UTP cable. They are LAN based KVM Extender systems that allow access to a computer system from a remote console anywhere on your existing network infrastructure.

The CAT5 DVI KVM Extender offers the extension of keyboard, mouse, video, Mic. and USB equipment; use a single Cat5 cable transmission, up to 100m away from your local PC.

The KVM Extender can support a digital video resolution up to 1920 x 1080 @60Hz/Full HD 1080p over 100M of a single Cat5 Cable, while still keeping a satisfying video quality at the same time. Furthermore, the Cat5 DVI KVM Extenders support Graphic Mode/Video Mode selection to suit your display requirements. Graphic mode is optimized for still graphic displays; while video mode is best for a dynamically changing video stream.

Note: In case of to extend another 100M range, it needs to install the Gigabit Network Switch, other than 10/100Mbs Network Switch. Otherwise, the consequently will affected the data transmission. Therefore should be avoided.

Package Contents

Please check whether you have all the following items from the packaging box.

- 1 x Transmitter Unit (TX)
- 1 x Receiver Unit (RX)
- 2 x Power Adapter (DC9V)
- 1 x Quick Installation Guide

Note: Optional for IR Remote Control Unit Pack (Include: Wired Transmitter and Wired Receiver).

Front-Panel & Back-Panel

TRANSMITTER (TX) Unit



Transmitter (TX) Unit Front-View



Transmitter (TX) Unit Back-View



Transmitter Unit Right Side-View

[TX – Front-panel]

- a. Reset Button
- b. Power LED (Lights when power on)
- c. Link LED (Lights when link active)
- d. Momentary Switch Button (Yellow - Sw1)
- e. Momentary Switch Button (Yellow - Sw2)
- f. CAT5 Extension Port [RJ45, connect to the RX unit via a CATx UTP cable, 100 Max.]

[TX – Back-panel]

- g. Power Jack
- h. USB Port (Type B)
- i. Remote Out
- j. Mic. Connector
- k. Audio Connector
- l. Monitor DVI Port
- m. 4 Position Dip Switch

Receiver (RX) Unit



Receiver (RX) Unit Front-View



Receiver (RX) Unit Back-View



Receiver (RX) Unit Right Side-View

- 1. Reset Button
- 2. Power LED (Lights when power is on)
- 3. Link LED (Lights when link is active)
- 4. Momentary Switch (Sw1) Short press to switch on and off Remote Console
- 5. Momentary Switch (SW2) Short press to select Graphic Mode/ Video Mode (Long press to select Anti-Dither 1/2/OFF)
- 6. USB Port (Type A) for Keyboard
- 7. USB Port (Type A) for mouse
- 8. USB Device Port (Type A)
- 9. USB Device Port (Type A)
- 10. RJ45 Port
- 11. Power Jack
- 12. Remote In
- 13. Mic. In
- 14. Audio Out
- 15. DVI Port

- 16. 4 Position Dip Switch

Pre-Installation

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

- Plan the layout path and deploy the UTP cable for extension.
- Plan the path through which the CATx UTP cable will be deployed across the distance between the Transmitter and the Receiver. You should choose the layout path not only based on shortest possible length consideration, but also on least electromagnetic interference.

Notes:

- 1. Use good quality CATx cable can be produced the better video outcome with longer distance span.
- 2. Any cabling distance longer than 50M will experience more signal degradation with longer span. However, good quality cable can reach out farther.
- 3. To choose the path of the CATx UTP cable should not only take into account the shortest possible path, but also consider keeping out from any significant electromagnetic interference source.
- 4. The ideal location for the power outlets near where you located the extenders.

Installation

Take the package items out of the box and begin installation.

Note:

Before the installation, please ensure that the 4 Position Dip Switch of the Transmitter and Receiver Unit are set to the same positions (1 to 4, the default setting for all switches are ON, then you can slide down to adjust as needed but, they are have to correspond on the same position), otherwise it might be encounter the connection problem.

- Configure the Transmitter Console
- 1. Connect on end of the CATx UTP cable the CAT5 extension port of the Transmitter (Connector f).
- 2. Connect the power adapter to the Transmitter to power it up before connecting any computer or cables to it. (Connector g).
- 3. Connect the DVI cable between the computer's DVI port and the DVI port (I) of the Transmitter.
- 4. Connect the USB cable between Transmitter's USB ports (h, Type B) to PC's USB port.
- 5. Connect the Remote Control Unit to the Remote Out Jack (i, Optional).
- 6. Connect the Microphone to the Mic. jack (j).
- 7. Connect the Speakers to the speaker jack (k).

- Configure the Receiver Console
- 1. Connect the other end of the CATx UTP cable to the CAT5 Extension port of the Receiver (connector 10).
- 2. Connect the power adapter to the Receiver Power Jack (11) to power it up before connecting any devices to it.
- 3. Connect the Keyboard and mouse to the USB ports
- 4. Connect any devices that you needed such as Flash Drive (8, 9)
- 5. Connect the IR Remote Control Unit to the Remote In Jack(12, Optional)
- 6. Connect Microphone Mic. jack (13)
- 7. Connect Speakers the speaker jack (14)
- 8. Connect the DVI cable between the RX's DVI port and Monitor's DVI port. (15)

Now, you have set up the whole system and ready to operate.

Operation

Turn Remote Console ON/OFF Switch (Yellow button)

Transmitter (TX) Unit

Receiver (RX) Unit

- To turn Remote Console ON/OFF and Mode Selections from the Momentary Switch (Yellow button) SW1 and Sw2

1. SW1 - Short press to switch ON/OFF
2. SW2 :
 - a. Short press to select the Graphic Mode/Video Mode.
 - b. Long press to select the Anti-Dither 1/2/OFF.

