

# 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 10/100Mbps Network Switch. Otherwise, the consequently will affected the data transmission. Therefore should be avoided.

## Package Contents

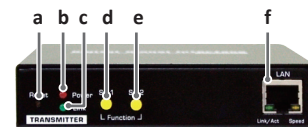
Please check whether you have all the following items from the packaging box.

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

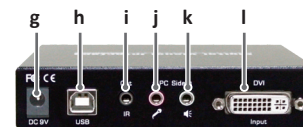
**Note:** Optional for IR Remote Control Unit Pack (Include: Wired Transmitter and Wired Receiver).

## Front-Panel & Back-Panel

### Transmitter (TX) Unit



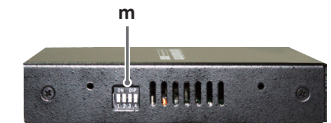
Transmitter (TX) Unit Front-View



Transmitter (TX) Unit Back-View

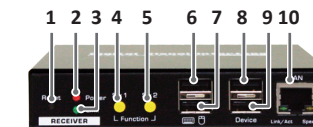
- Reset Button
- Power LED (Lights when power on)
- Link LED (Lights when link active)
- Momentary Switch Button (Yellow - Sw1)
- Momentary Switch Button (Yellow - Sw2)
- CAT5 Extension Port [RJ45, connect to the RX unit via a CATx UTP cable, 100 Max.]

- Power Jack
- USB Port (Type B)
- Remote Out
- Mic. Connector
- Audio Connector
- Monitor DVI Port
- 4 Position Dip Switch

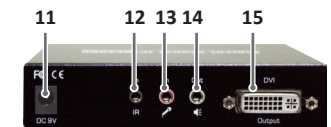


Transmitter Unit Right Side-View

### Receiver (RX) Unit

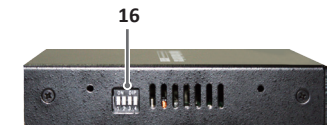


Receiver (RX) Unit Front-View



Receiver (RX) Unit Back-View

- Reset Button
- Power LED  
(Lights when power is on)
- Link LED  
(Lights when link is active)
- Momentary Switch (Sw1) Short press to switch on and off Remote Console
- Momentary Switch (SW2) Short press to select Graphic Mode/ Video Mode (Long press to select Anti-Dither 1/2/OFF)
- USB Port (Type A) for Keyboard
- USB Port (Type A) for mouse
- USB Device Port (Type A)
- USB Device Port (Type A)
- RJ45 Port
- Power Jack
- Remote In
- Mic. In
- Audio Out
- DVI Port
- 4 Position Dip Switch



Receiver (RX) Unit Right Side-View

## 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 (6, 7)
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 :

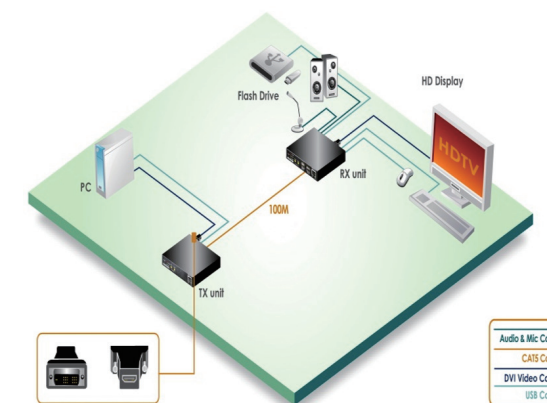
- a. Short press to select the Graphic Mode/Video Mode.
- b. Long press to select the Anti-Dither 1/2/OFF.
- c. Detect the EDID of connected monitor (refer to FAQ).

## FAQ

### Q: The resolution of display is reducing to 640x480 or other settings from 1080P.

- A: The EDID of connected monitor may not be detected if the resolution is reduced. Please follow the steps below to detect the EDID of connected monitor. Note that this procedure is only available on Receiver (RX) unit.
- (1). Remove the power adapter from RX unit.
  - (2). Press the SW2 and then re-connect the power adapter.
  - (3). Release the SW2 when the LED flashes red.
- The EDID of monitor should be detected after completing this procedure.

## Connection Diagram



**RoHS Compliant**

