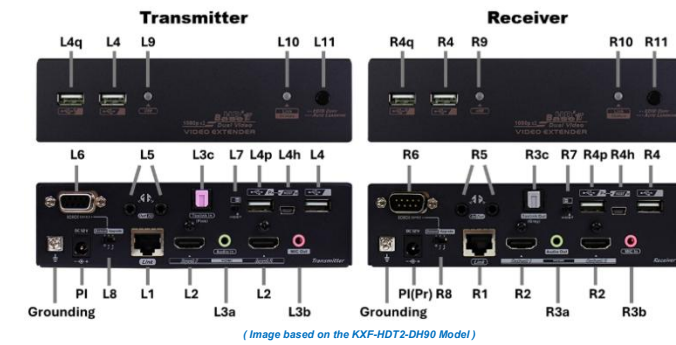


Specifications

KXF-HDT2-DH90		KXF-HDT2-DH90P	
	Transmitter Unit	Receiver Unit	
Maximum Resolution	Dual 1920 x 1080 @60Hz (4:4:4)		
Video Interface	HDMI x 2 (In)	HDMI x 2 (Out)	
USB 2.0 Extension	Mini-USB x 1 (Host) USB Type A x 4 (Device)	Mini-USB x 1 (Host) USB Type A x 4 (Device)	
Speaker Extension	3.5mm SPK Jack x 1 (In) Toslink (SPDIF) x 1 (In)	3.5mm SPK Jack x 1 (Out) Toslink (SPDIF) x 1 (Out)	
Microphone Extension	3.5mm MIC Jack x 1 (Out)	3.5mm MIC Jack x 1 (In)	
Bidirectional IR Extension	3.5mm IR Jack x 1 (In) 3.5mm IR Jack x 1 (Out)	3.5mm IR Jack x 1 (In) 3.5mm IR Jack x 1 (Out)	
Serial Extension	DB9 x 1 (DCE)	DB9 x 1 (DTE)	
HDCP Compliance	HDCP 1.4		
HDBaseT Interface	RJ-45 x 1 (CAT5e/6/6a/7) CAT6a/7 23 AWG STP/SFTP cabling is necessary for long distance and environment with interference		
Extension Range	Max. 90m		
Host Slide Switch	USB Host/Device Switch x 1	USB Host/Device Switch x 1	
Extend / Upgrade Switch	Extend / Upgrade 1 / Upgrade 2		
Push Button	EDID Copy x 1	EDID Copy x 1	
LED Indicators	Link / Video Status x 1 USB Status x 1	Link / Video Status x 1 USB Status x 1	
Power Supply	DH90 (Non-PoH)	DC 12V	
	DH90P (PoH)	DC 48V (PoH TX→RX)	(Optional DC 12V)
Operating Environment	Temperature 0 ~ 40°C, Humidity < 80%		
Storage Temperature	-20 ~ 60°C		
Enclosure	Metal		
H x W x D (mm)	40 x 158 x 130		
Weight (g)	440	440	

Product Descriptions



Label	Transmitter	Receiver	Description
L1	R1	RJ-45 Jack	Use a CATx cable to connect the two units
L2	R2	HDMI Input / Output Connector	[L2] Connect to PC [R2] Connect to Monitor
L3a	R3a	Audio Connector	[L3a] Connect to PC [R3a] Connect to Speaker
L3b	R3b	Microphone Connector	[L3b] Connect to Speaker [R3b] Connect to Microphone
L3c	R3c	Toslink Connector	[L3c] Connect to a Toslink (SPDIF) Source [R3c] Connect to a Toslink (SPDIF) Device
L4	R4	USB connector	Connect to USB device
L4h	R4h		Connect to a PC
L4p	R4p		Connect to USB device / Supply Power to USB device (Only when Host Slide Switch is at Host Position)
L4q	R4q	Connect to USB device / Supply Power to USB device (Quick Charge)	
L5	R5	IR Extension	[In] Connect to IR Receiver [Out] Connect to IR Transmitter
L6	R6	RS-232 Connector	[L6] Connect to PC [R6] Connect to Serial device
L7	R7	Host Slide Switch	Please see Operations Section: Host Slide Switch
L8	R8	Extend / Upgrade Slide Switch	Please see Operations Section: Extend / Upgrade Slide Switch
L9	R9	USB LED Indicators	Please refer to LED Indicator section
L10	R10	Status LED Indicators	Please refer to LED Indicator section
L11	R11	EDID Button	Please see Operations - EDID Button
PL		Power Supply	Apply power to the unit from a power supply
Pr		Power Supply	Apply power to the unit from a power supply (Optional) Receive PoH power, applicable only to KXF-HDT2-DH90P model

Installation



WARNING

- Ensure all devices are powered off before connecting to the Unit.
- Make sure all devices you are connecting are properly grounded.

- Use a Cat6a/7 cable to connect the transmitter & receiver.
- Use an HDMI cable to connect the main video of the source device to HDMI Input 1 port (L2) on the transmitter unit. Do likewise for the extended video connecting to Input 2 port. Connect the audio source to the 3.5mm audio I/O ports (if necessary).
- Use an HDMI cable for connection between main display and HDMI Output 1 port on the receiver unit (R2). Do likewise for the extended video connecting to Output 2 port. Connect the speakers and microphone to the 3.5mm audio I/O ports (if necessary).
- Connect the Mini-USB end of the USB cable to the transmitter and the Type A end of the USB cable to the source device.
- Apply proper power to the units, then power on the attached source and devices.

NOTE: If users encounter no video display in computer connection:

- Make sure the devices' cables are correctly and firmly attached.
- Set your display device's input source as HDMI / correct HDMI input port.
- Check the PC BIOS configuration about the video output setting.
- Connect your computer to the display directly to check if the video signal gets through and which graphic port is the main display i.e. display 1.
- Apply EDID Copy for the connected display (see Operations Section).

Recommendation

Grounding

When using HDBaseT products, high-speed digital applications may be susceptible to environmental factors. We strongly recommend grounding. Use grounding wires to connect the Grounding Terminal to a proper ground as shown in the diagram below.



LED Indicators

Status LED

Without HDBaseT Link

	Status LED
Transmitter	Emit Green
Receiver	Emit Red

HDBaseT Linked

LED Indicator	Status LED (TX and RX)		
	Video 2	No Signal	Signal without HDCP
Video 1	No Signal	Flash Blue	Emit Blue, Goes Off 1 time
No Signal	Flash Blue	Emit Blue, Goes Off 2 time	Emit Purple, Red Goes Off 1 time
Signal without HDCP	Emit Blue, Goes Off 2 time	Emit Blue	Emit Purple, Red Goes Off 1 time
Signal with HDCP	Emit Purple, Goes Off 2 time	Emit Purple, Red Goes Off 2 time	Emit Purple

EDID Copy

Function	Status LED (TX & RX)
EDID Copy	Flash Green
Auto Learning	Flash Blue

USB LED

The USB LED on each unit indicates the USB port usage on that unit (excluding L/R4p and L/R4q).

Function	Status
Permanent Orange	Non-USB detected
Flash Orange	When the USB LED flashes x time, it indicates x USB port(s) detected [x = 1 - 4]

Features

- Enables reliable remote access to a dual-monitor computer via a CATx cable up to 90 meters (295 feet)
- Dual-monitor design enhances user work efficiency
- Dual Head HDMI video supports popular resolutions up to Dual 1080P
- HDBaseT 2.0 uncompressed video extension ensures crystal-clear image quality with low latency
- Bidirectional stereo audio extension and Toslink (SPDIF) extension facilitate seamless integration with speakers and microphone, and AV receivers / audio amplifiers
- USB 2.0 extension supports keyboards, mice, USB storage, USB cameras, and other USB devices
- USB host selection allows the USB host to be connected to either the Transmitter or Receiver
- Bidirectional IR extension enables remote control of source devices or TVs
- Serial extension supports extensive control applications
- PoH (Power over HDBaseT) allows the Receiver to be powered by the Transmitter (DC 48V) *

Package Contents

- 1 x Transmitter Unit
- 1 x Receiver Unit
- 2 x DC 12V Power Adapter or 1 x DC 48V Power Adapter **
- 1 x Mini-USB to USB Type A Cable (for USB Host)
- 1 x User Manual
- 2 x Foot Pad Set (Optional)
- 1 x IR Extension Kit (Blaster and Sensor)

* Applicable to PoH Model KXF-HDT2-DH90P (PoH Model only)

** Power Adapter Set:

- 2 x DC 12V Power Adapter for DH90 (Non-PoH Model)
- 1 x DC 48V Power Adapter for DH90P (PoH Model).

Operations

Extend / Upgrade Slide Switch

The serial port serves as both a communication interface and a firmware upgrade channel. You can easily select the function using the Extend / Upgrade Slide Switch.

	Functions
Extend	To extend serial communication
Upgrade 1	To upgrade HDBaseT firmware
Upgrade 2	To upgrade controlling systems (Push-Button, LED, HDMI)

USB Host Slide Switch

- When the Host Slide Switch on the Transmitter unit is set to the 'Host' position, the switch on the Receiver unit should be set to the opposite position, 'Device' mode, and vice versa.
- When the Host Slide Switch is set to the 'Host' position, the left USB port (marked with 'P') will only have the power supply function.
- When changing the Host Slide Switch position, please power cycle the units.
- Note that the USB device connection may take some time.

EDID Button

You can press the EDID button on the Transmitter or Receiver to copy the EDID of Monitor 1 to Source 1 and Monitor 2 to Source 2.

- EDID Copy:** Press the button for 3 seconds until the Status LED flashes **Green**.
- Auto Learning:** Press the button for 6 seconds until the Status LED flashes **Blue**.

User Manual

HDBaseT 2.0

1080P Dual Head HDMI KVM Extender with Audio, IR, RS-232 & USB 2.0 Extension, CATx 90m



KXF-HDT2-DH90 and KXF-HDT2-DH90P (Non-PoH) (PoH)

User Manual

Product Family					
Model	HDMI IN	HDMI OUT	PoH	LAN	Extension Distance
KXF-HDT2-DH90	2	2	-	-	90m
KXF-HDT2-DH90P	2	2	✓	-	90m



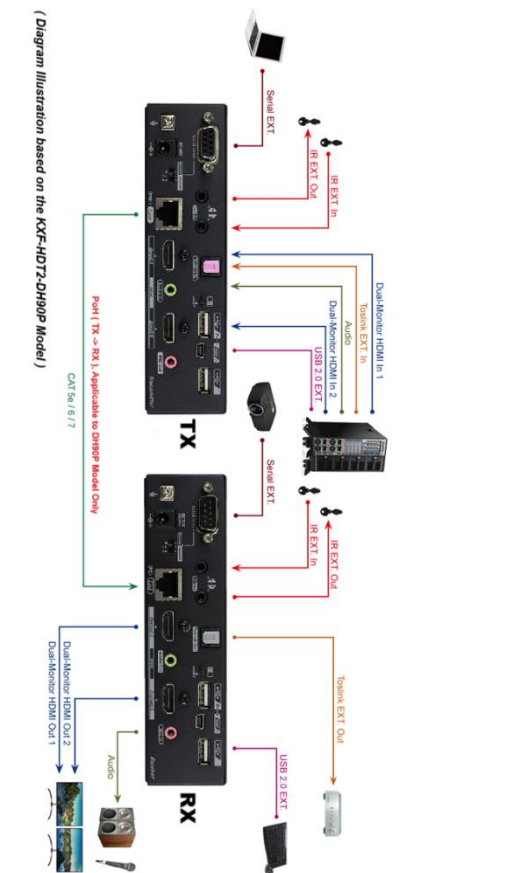
DSG Global Pte Ltd.
3 Lorong Bakar Batu #07-05
Singapore 348741

- The final specification is based on the actual product.
- Features and functions may be added or changed after the manual was written. Please visit our website to download the latest version of manual for reference.

RXN-HDT2-R01.2



Connection Diagram





Limited Warranty

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