KVM Extender

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

Model: KXF-HDT2-DH90

PRODUCT OVERVIEW

The **KXF-HDT2-DH90** is a Dual HDMI KVM Extender over CATx, featuring support for IR, Serial, USB, and 3.5mm analog stereo audio for both speakers and microphones, along with SPDIF digital audio. It transmits two uncompressed 1080p HDMI video signals up to 90 meters over a single CATx cable. The KVM extender supports Auto/Copy EDID management and complies with HDR and HDCP standards.
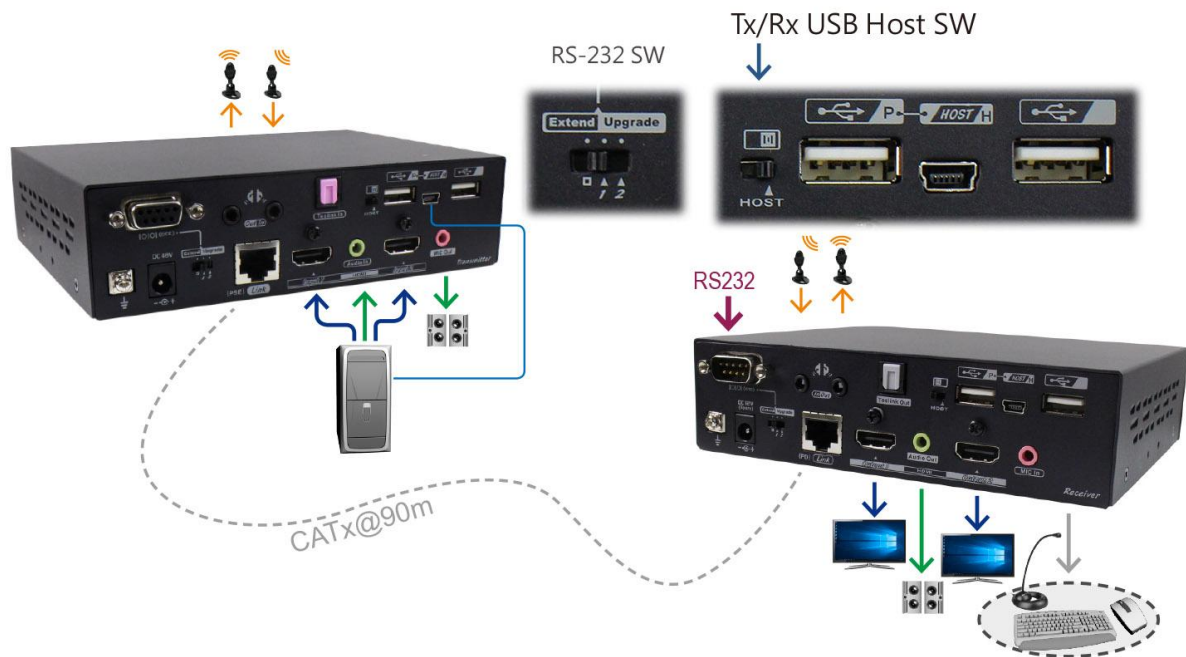

The unique bidirectional audio extension function of the KVM Extender enables independent two-way audio transmission between the Transmitter (TX) and Receiver (RX) units. For optical digital audio transmission, the Extender is equipped with a Toslink optical fiber connector, allowing digital audio signals to be transmitted from the Transmitter input to the Receiver output. This optical extension technology eliminates electrical and magnetic interference, ensuring high-quality audio transmission. The Toslink connector supports most studio audio equipment, including video game consoles, Blu-ray disc players, and AV receivers.

The bidirectional IR extension feature supports full-frequency IR signals ranging from 38KHz to 56KHz. Additionally, the full-duplex data communication between the TX and RX units via CATx cable provides a cost-effective, hardware-based solution for remotely accessing and controlling RS-232 protocol devices without requiring any setup or configuration.

Each unit (TX/RX) includes four USB 2.0 ports, two on the front and two on the rear, making it suitable for both long-term and temporary USB peripheral connections. The USB OTG function allows the TX and RX units to switch roles between host and device dynamically.

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KEY 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

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PRODUCT SPECIFICATIONS

KXF-HDT2-DH90	Transmitter	Receiver
Max Resolution	Dual 1920x1080@60Hz (4:4:4)	
Video Extension	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 (Out) 3.5mm IR Jack x 1 (In)
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) HDBaseT 2.0 certified cables or CAT6a/7 23 AWG STP/SFTP cabling is necessary for long distance and environment with interference.	
Extension Range	Max 90m	
Slide Switch	USB Host Switch x 1	USB Host Switch x 1
Push Button	EDID Copy x 1	EDID Copy x 1
Power Supply	DC 12V	DC 12V
Operating Environment	Temperature 0 ~ 40°C, Humidity < 80%	
Storage Temperature	-20 ~ 60°C	
Material	Metal	
H x W x D (mm)	40 x 158 x 130	
Weight (g)	440	440

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CONNECTION DIAGRAM

Front and Rear View of the Transmitter and Receiver:

(TX)   **(RX)**

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PACKAGE CONTENTS

- 1 × KXF-HDT2-DH90 Transmitter Unit
- 1 × KXF-HDT2-DH90 Receiver Unit
- 2 × DC 12V Power Adapter
- 1 × Mini-USB to USB Type A Cable (for USB Host)
- 1 × User Manual
- 2 × Foot Pad Set

(Optional)
- 1 × IR Extension Kit (Blaster and Sensor)

WARRANTY

- Standard 1-Year Limited Warranty, unless otherwise specified by Sales.
- Optional Advance Replacement Warranty is available upon request

ORDERING INFORMATION

Part Number	Descriptions
KXF-HDT2-DH90	1080P Dual Head HDMI KVM Extender over CATx with Audio, IR, RS-232, USB 2.0 Extension, 90m
(OPTIONAL)	
RXN-ACC-IRK	IR Extension Kit (Blaster and Sensor)
RXN-ACC-VESA	KVM Extender VESA/Wall-mount Kit

CONTACT INFORMATION

For more information, please visit our website or contact our customer service team:

- **Website:** www.dsgio.com
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