

# **4K HDMI AV over IP Extender (KEH1MS) User Manual**

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## Product Introduction

This product is an audio and video extender that uses the latest H.265 compression technology. It can be used with common managed and unmanaged network switches; it supports resolutions up to 3840x2160@30Hz.

A complete set of KEH1MS consists of two parts, the transmitter (KEH1MS\_TX) and the receiver (KEH1MS\_RX).

You can use the VDirector app (support iOS/Android/Windows) to control the KEH1MS and easily build an IP matrix or a video wall. Easy to set up and operate, the KEH1MS is an ideal solution for different application scenarios, such as sports bars, conference centers, digital signage, etc.

## Features

- Extends visually lossless high-quality video up to 4K@30Hz
- Plug & Play without configuration
- Works flawlessly with universal Ethernet switches; no need to configure IGMP
- Visual control- Install the “VDirector app” on your smartphone, tablet or Windows PC for effortless visual control
- Easy to setup an IP matrix / video wall
- Built-in scaler for fast seamless switching
- Independent RS232 pass-through

## KEH1MS\_RX



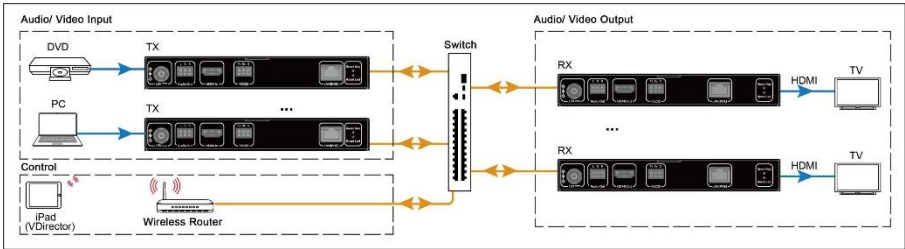
ID	Components	Function
1	POWER	Power indicator
2	STATUS	Status indicator
3	DC12V	Power Connector
4	AUDIO OUT	Audio Out
5	HDMI OUT	HDMI Out
6	RS232	RS232 Port
7	LAN(POE)	LAN Port
8	RESET KEY	Reset the device
9	RESET LED	Reset LED indicator

## KEH1MS\_TX



ID	Components	Function
1	POWER	Power indicator
2	STATUS	Status indicator
3	DC12	Power connector
4	AUDIO OUT	Audio Out
5	HDMI IN	HDMI In
6	RS232	RS232 Port
7	LAN(POE)	LAN Port
8	RESET KEY	Reset the device
9	RESET LED	Reset LED indicator

## Connection Diagram



It must be used with a switch. Supports One-to-One, One-to-Many, and Many-to-Many connections.

## IP Matrix/Video Wall

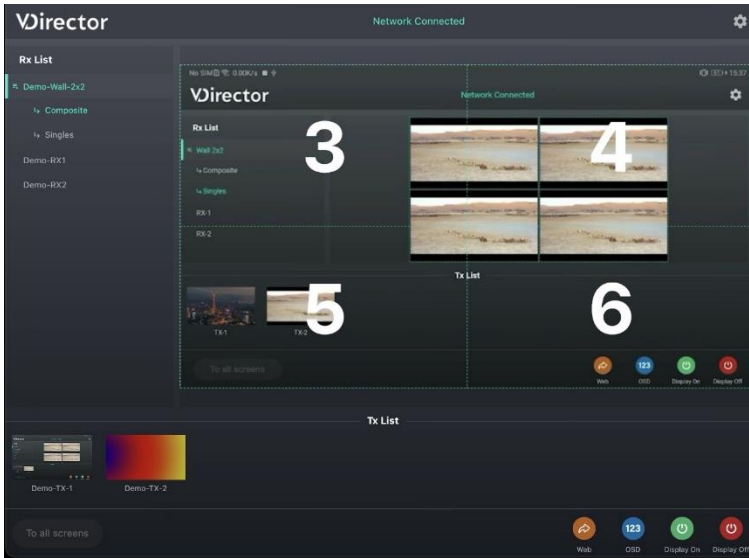
Taking the iOS as an example, the configuration steps are as follows:

- 1) Use your iPad to scan the QR code on the right or go to the Apple Store to search and download “VDirector App”.



Note: If you need the Android version, please search for and download the app from the Google Play store; if you need the Windows version, please visit [www.kinankvm.com](http://www.kinankvm.com))

- 2) Connect all RXs, TXs, and the wireless router to the network switch according to the connection diagram above.
- 3) Set up the wireless router correctly, then connect your iPad to the Wi-Fi network. Launch VDirector on the iPad and it will start searching for online devices, and the following main screen will appear.



ID	Function	Descriptions
1	Logo	This logo icon can be modified as needed.
2	System Configuration Button	Click this button to enter the system configuration page for the functions: 1) Naming and Sequencing; 2) Video Wall Settings; 3) Advanced settings; 4) System information.
3	RX List	Shows the list of online RX devices, including single devices and devices for video walls.
4	RX Preview	Shows the live preview of the selected RX.
5	TX List	Shows the IP stream's live preview from TX device.
6	To all screens	Drag a TX from the TX list to this button to switch this TX to all RXs in the RX list, including video walls.
7	Display On/Off	<ul style="list-style-type: none"> <li>Display-On: Turn on all RXs' displays</li> <li>Display-Off: Set all RXs' displays to standby state.</li> </ul>

## Specifications

Model No.		KEH1MS_TX	KEH1MS_RX
Interfaces	HDMI Input	1	NA
	HDMI Output	NA	1
	LAN	1	1
	Audio	1	1
	RS232	1	1
Video Protocol		H.265	
Resolution		3840x2160@30Hz	
Audio Type		MPEG4-AAC stereo	
Visual Control		VDirector App (iOS/Android/Windows)	
Power Input		DC12V / 1A	DC12V /1A
Power Consumption		3.6W	3.6W
Operating Temperature		+32°F ~ +113°F (0°C ~ +45°C)	
Storage Temperature		-4°F ~ 140°F (-20°C ~ +70°C),	
Humidity		10% ~ 90%, Non-condensing	
Material		Metal	
ESD Protection		Human body discharge mode: ±8kV (air-gap discharge)/±4kV (contact discharge)	
Net Weight (kg)		0.6 kg	0.6kg
Dimension (W × D × H)		175mm x 25mm x 100.2mm	