

### **P4K-HUL4E1 / P4K-HUL4E1-P** 4K UHD HDMI & USB Over IP Extender 4K UHD HDMI & USB Over IP Extender with PoE



### **P4K-HRSUL4E1 / P4K-LHRSU1E4** **P4K-HRSUL4E1-P / P4K-LHRSU1E4-P**

#### Introduction

4K UHD HDMI / USB over IP Extender for point to point, point to multi-point, multi-point to multi-point and screen wall broadcast including USB/RS-232 and IR control extension. Easy installation with networking Giga Ethernet switch and CAT-5e cable for building up the extension or broadcast system.

#### TX



#### RX



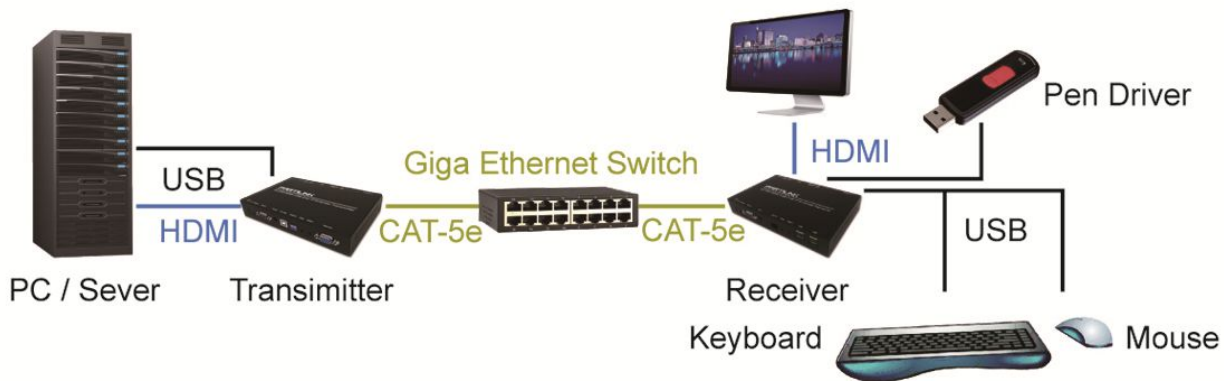
#### Features

- 4K UHD HDMI over IP extension
- USB 2.0 over IP extension
- RS-232 bi-directional extension
- 4 bits DIP switch for 16 stream channel selection
- HDCP 1.4 compliant and Blu-Ray ready
- Support two way IR extension
- Output video rotation
- Output video partial enlargement
- Automatic EDID configuration
- Networking environment under Giga Ethernet switch and CAT-5e cable
- Point to point extension, unicast, multicast and screen wall system.
- Point to point extension via CAT-5e cable without Ethernet switch up to 100M
- Ethernet webpage management
- RS-232 serial control command management
- P4K-HUL4E1-P supports power over Ethernet

## Application

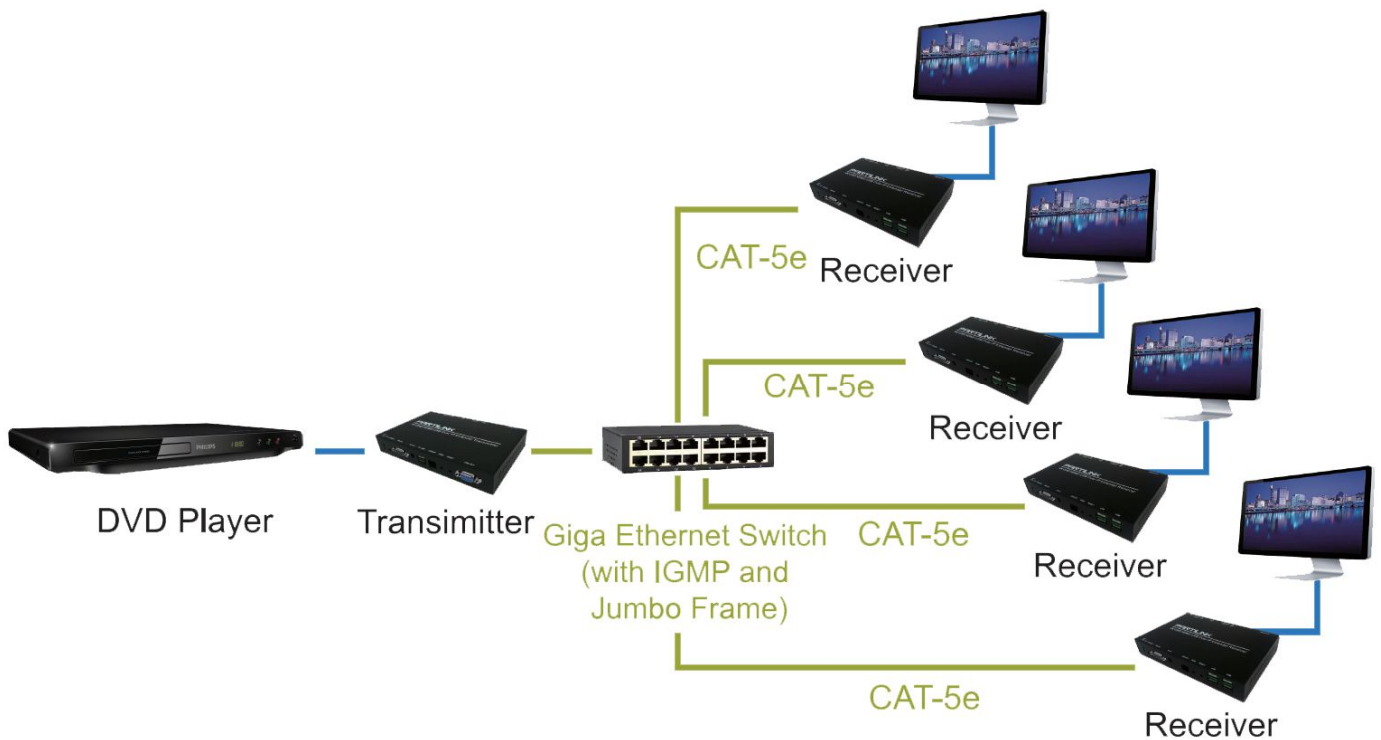
- Unicast, point to point extension.
- Multicast, point to multi points or multi points to multi points extension
- Screen wall installation.

### ■ Unicast

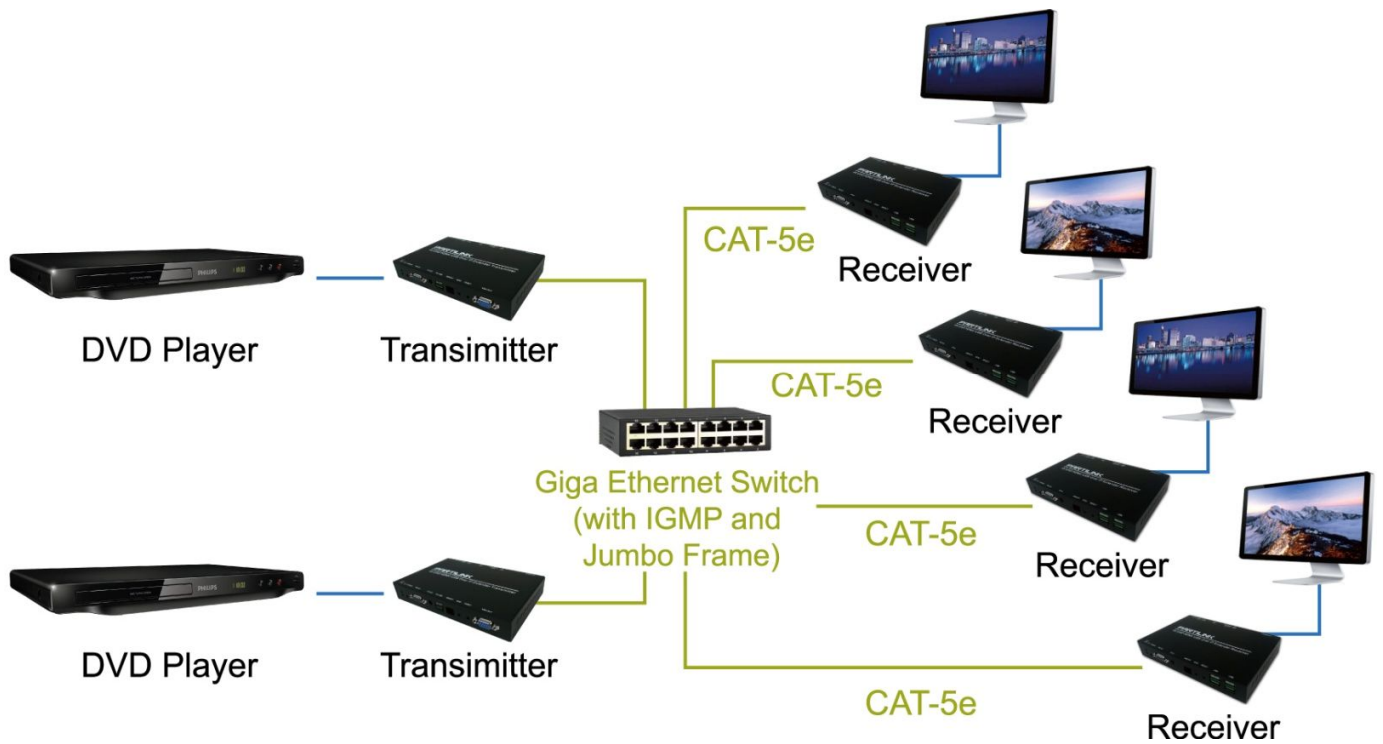


### ■ Multicast

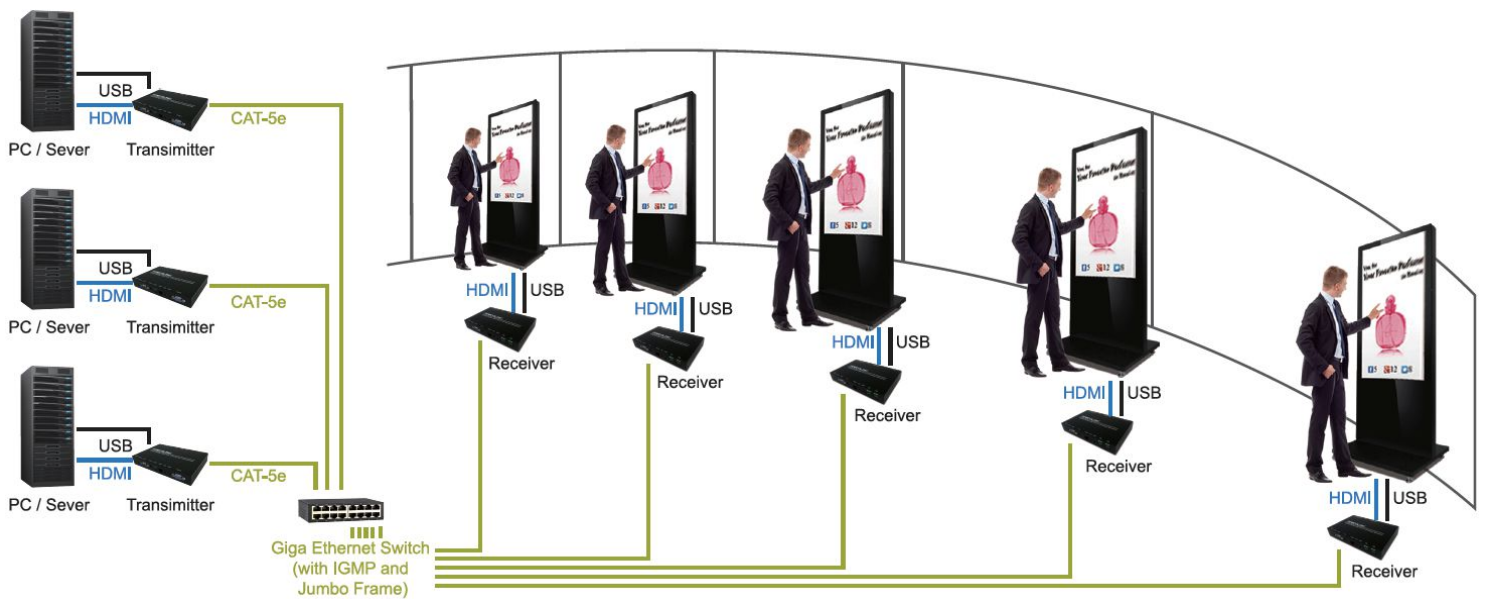
#### a. Video Distribution



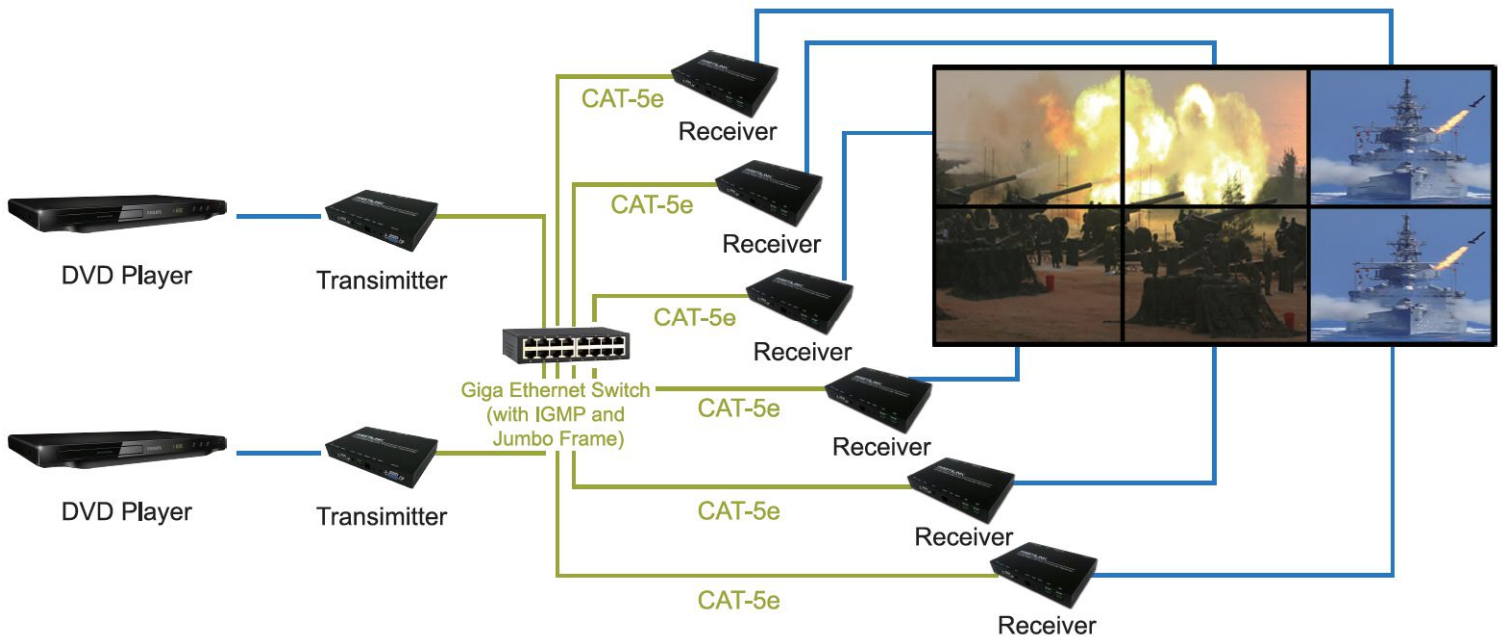
## b. Matrix Distribution



## c. Billboard & Kiosk, PC to HDMI and USB Interactive Monitor



## ■ Screen Wall



## ■ Configuration



## Specifications

P4K-HUL4E1 P4K-HUL4E1-P 4K UHD HDMI over IP Extender	P4K-HRSUL4E1 P4K-HRSUL4E1-P Transmitter	P4K- LHR SU1E4 P4K-LHR SU1E4-P Receiver
VIDEO INPUT	HDMI Type-A female connector	None
VIDEO OUTPUT	HDMI Type-A female connector for loop through VGA DB-15 female local output	HDMI Type-A female connector
IR	2x 3.5mm phone jack for IR emitter and receiver to control video source device	
COMPRESSION	Visual lossless compression	
HDMI INPUT RESOLUTION	3840x2160 30/24, 1080p 60/50, 1080p 30/25, 1080i 60/50 720p 60/50, 480i 60/50, 480p 60/50	
HDMI OUTPUT RESOLUTION	3840x2160 30/24, 1080p 30/25, 1080i 60/50, 720p 60/50 480i 60/50, 480p 60/50	
VGA OUTPUT RESOLUTION	1080p 30/25, 1080i 60/50, 720p 60/50 480i 60/50, 480p 60/50	
AUDIO FORMAT	Stereo 192Kbps	
IP PROTOCOL	TCP, UDP, RTSP, RTP, DHCP, IGMP, Multicast, IPV4	
LAN PORT	RJ45 connector for Giga Ethernet	
SERIAL	DB-9 male connector for RS-232 extension	
MANAGEMENT	LAN port	Serial port
	Embedded webpage management	RS-232 debug, control command
POWER INPUT	2.0mm power jack for DC12V/2A input	
OPERATING TEMPERATURE	0~55°C	
OPERATING HUMIDITY	5%~90% RH	
POWER SUPPLY	Power adapter AC in 100~240V (50~60Hz)	
ESD	ESD protection air gap discharge ±8KV, contact discharged ±4KV	
DIMENSION	191.6 x 112.8 x 26.85 mm ( L x W x H )	
WEIGHT	450g	

