



HDMI DVI VGA over IP Series



4 Boxes that can build a powerful AV over IP System



HKM02BP-4K



HKM02B-4K



HKM02B



VDKM02B

4K HDMI KVM & USB, RS232 , IR, Audio over IP Extender with PoE



HKM02BP-4K



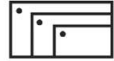
Resolution

2 USB

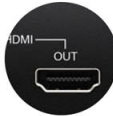
Ports

15w

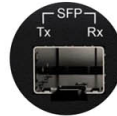
PoE



Up/down Scaler



Loop-out



Fiber Module



RS232



IR

4K HDMI KVM & USB, RS232 , IR, Audio over IP Extender



HKM02B-4K



Resolution

2 USB

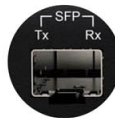
Ports



Up/down Scaler



Loop-out



Fiber Module



RS232



IR



1080P HDMI KVM & USB, RS232 , IR, Audio over IP Extender



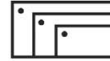
HKM02B

1080p

Resolution

4 USB

Ports



Up/down Scaler



Loop-out



RS232



IR

VGA/DVI KVM & USB, RS232 , IR, Audio over IP Extender



VDM02B

1920x1200

Resolution

2 USB

Ports



Loop-out



RS232



IR

Differences between Models



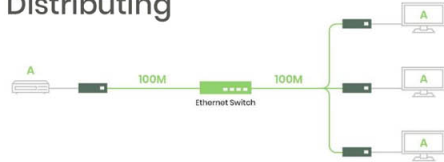
Model	HKM02BP-4K	HKM02B-4K	HKM02B	VDKM02B
Video Format	HDMI	HDMI	HDMI	VGA/DVI
Resolution	4K@30Hz	4K@30Hz	1080P@60Hz	1080P@60Hz
Audio Embed / Extract	V	V	V	V
IR	V	V	V	V
RS232	V	V	V	V
PoE	V			
Fiber Module	V	V		

Free to Modify Your A/V System

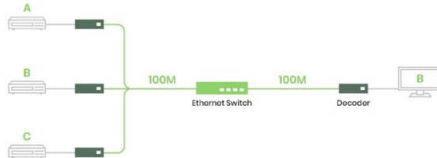
Extending



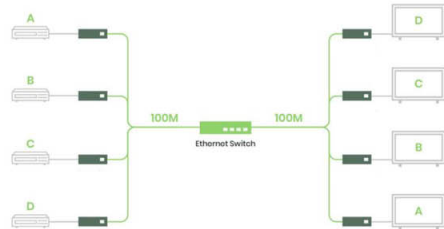
Distributing

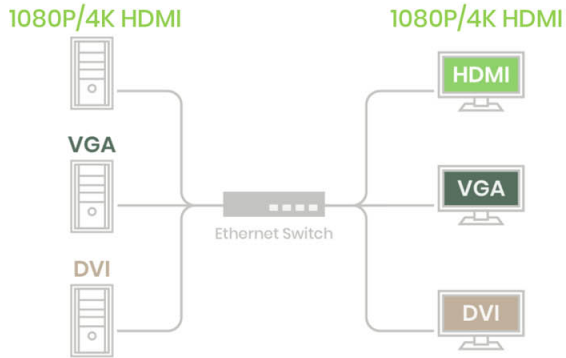


Switching



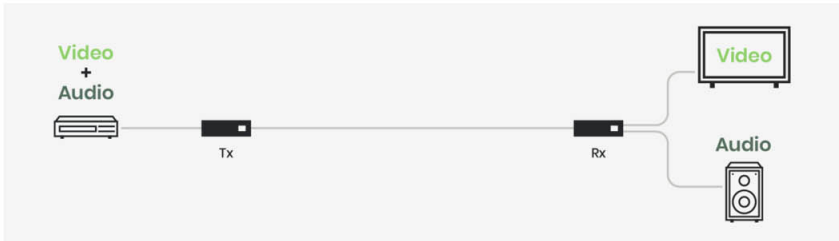
Routing



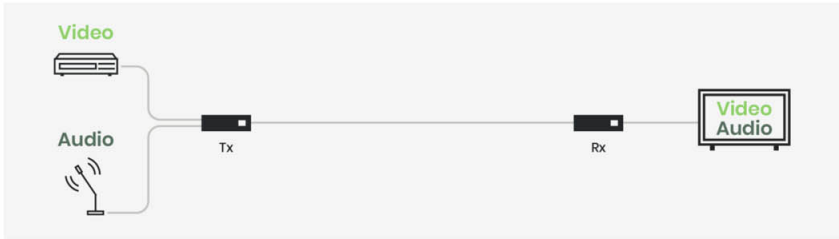


Integration Of Devices With Different Signals

Combines HDMI, DVI and VGA devices into one AV system to create more flexibility.



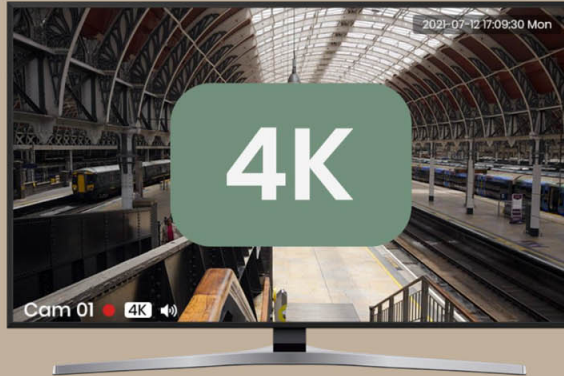
Audio Extract



Audio Embed

A close-up photograph of a person's hand plugging a blue Ethernet cable into a network switch. The switch has multiple ports, some of which are already occupied by other blue cables. The background is slightly blurred, showing more of the network equipment. The text "Features of our over IP solution" is overlaid in white, bold, sans-serif font.

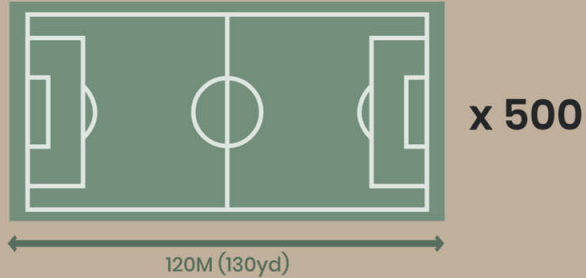
Features of our over IP solution



4K Resolution

BKFT's AV over IP system supports up to 4K@30Hz 4:4:4 HDMI to present your high quality video.





60KM Distance (=65,617yd =37.28Mi)

In unicast mode, the system can use fiber module to extend the signal for up to 60,000M





Up to 8 x 16 Video Wall

Your A/V sources can be put on a up to 8 x 16 video wall and presented as different layout.



Remote Control



Software



APP



IR Remote



Telnet API
Command

Entity Control



RS232



Front Panel
Button



Customized
Control Box

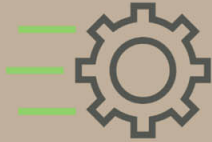


Keypad

8 Ways to Control

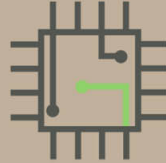
You can also manage a complicated AV system effortlessly via panel buttons, IR, RS232, keypad, telnet API command, console, [PC software](#), and [mobile APP](#) for different controlling needs.





Easy Operation

Clear LED indications to help users/ installers to figure out current status of the devices.



Long-Lasting Durability

Built-in circuit protection components to prevent the devices from surge spikes.



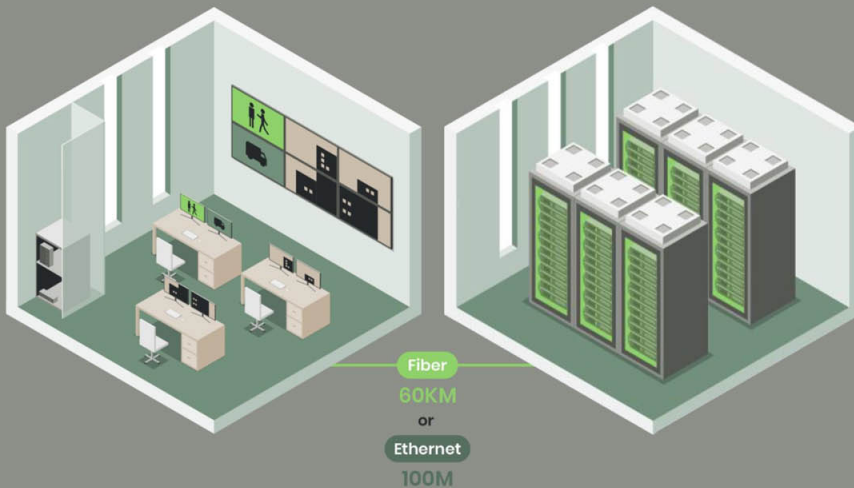
Ethernet Switch Requirement

Resolution	Bandwidth (Mbps)
3840x2160 (4K)	146~268
1920x1080 (1080p)	80~210
1280x720 (720P)	112~177
1600x1200 (UXGA)	57~105
1280x1024 (SXGA)	79~150
1024x768 (XGA)	72~120
800x600 (SVGA)	49~82
640x480 (VGA)	29~56

At least using a Gigabit Ethernet switch that supports IGMP, and enabling Jumbo Frame is recommended.

When using more than one Ethernet switches to expand your AV system, please choose cables that can carry the total amount of data (Use a fiber cable when using 8 TX and 8 RX or more).

Suitable Solution for Control Room



Application



Transport Hub



Church



Department Store



Data Center



Sports Bar



Enterprise

Case Study



A low-angle, upward-looking photograph of several modern skyscrapers with glass facades, reaching towards a pale, overcast sky. The perspective creates a sense of height and scale. The buildings are dark, with some windows reflecting light.

Emergency Response Center in Transport Hub

What is ERC (Emergency Response Center)?

- A mandatory facility for commercial establishments per public safety regulation.
- It contains a variety of building management systems, including broadcast, fire alarm, AC, lighting, CCTV, gas, earthquake detection systems, and so on.
- Each is coordinated and controlled by security staff to take necessary actions in response to unexpected activities in the building.



Transport Hub

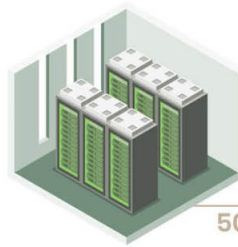


Overview

16,529m²
Covering

> 600
Cameras

110,000 Visitors
Per Day



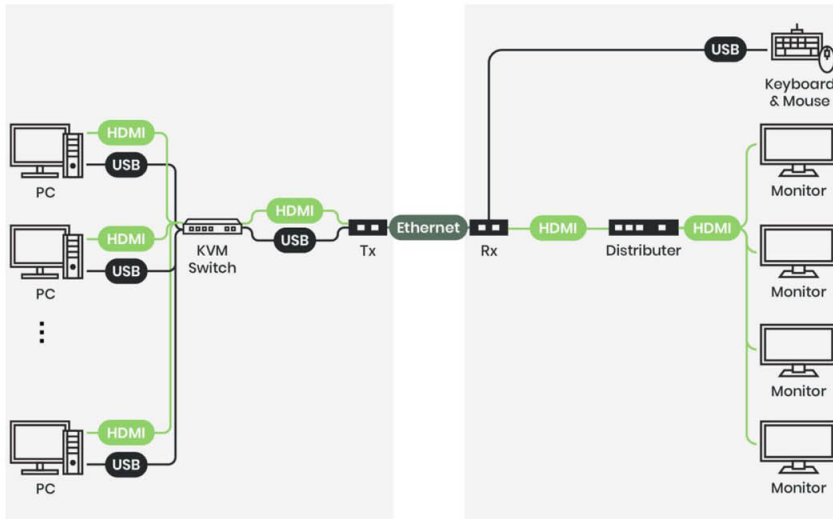
Data Center



Emergency Response Center

500M

Challenge



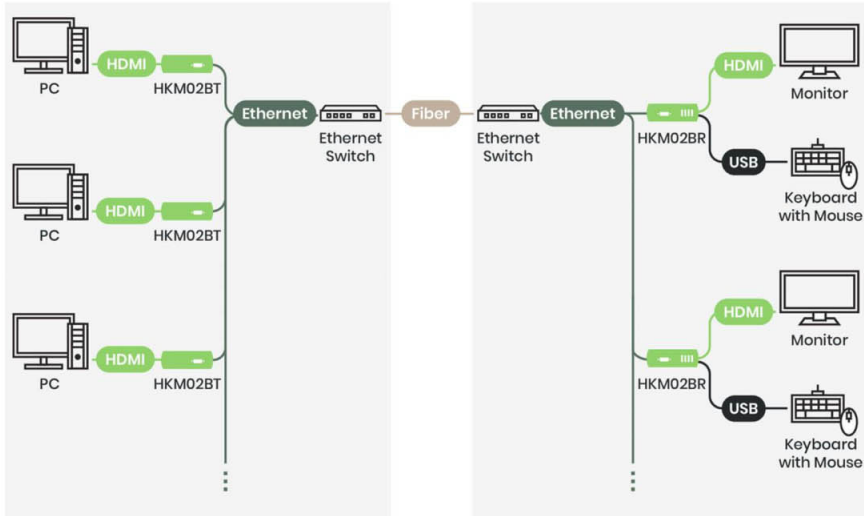
BKFT's Solution



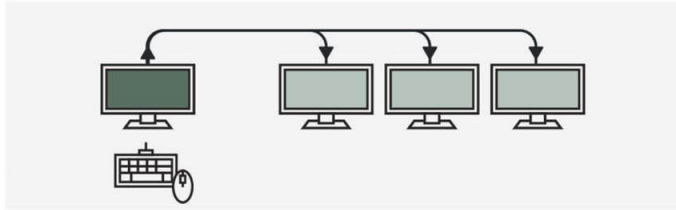
HKM02B

- BKFT's HKM02B is an HDMI over IP extender that can use an Ethernet switch to extend, distribute, switch, and route multiple HDMI signals by applying different amount of encoders and decoders.
- The system integrator used several HKM02BT, HKM02BR and Ethernet switches to establish a professional CCTV system with a 3 x 3 TV wall. It allows each security member to effortlessly switch between different AV sources at their monitoring spots and remain full access to control remote PCs.

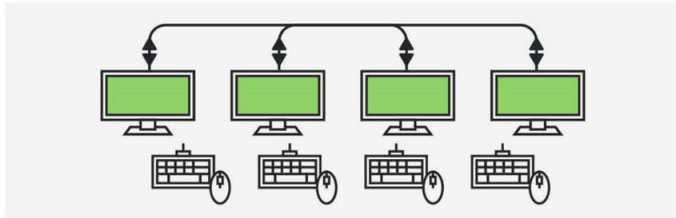
BKFT's AV over IP Infrastructure



Result



Before : Only one monitoring spot can switch videos and control the system.



After : All monitoring spots can switch videos and have full access to control.

Why Choosing BKFT?



Authentic

We design and develop products carefully and test and verify them in a higher standard in order to provide solid and reliable solutions for our partners.



Proven by Market

Only the one that has been tested and applied in real projects can demonstrate its values to the market. Our AV over IP solution is such. it's been widely used in over 100 projects in Taiwan and more than 1,000 around the globe.



Thank You

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