

SMART CCTV, AV, NETWORK CABLING SYSTEM SOLUTION



**Smart Cabling & Transmission**  
**4K HDMI/DVI/VGA KVM Matrix Over IP with Video Wall**

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# 4K HDMI, DVI, VGA Matrix over IP



# Variety Application

- Shopping mall
- Sport Bars
- Government
- Airport
- Corporation
- Stadium/Venues
- Events
- Education
- Hospital
- Retail





# See why choose our video IP solution for any application

## ■ Extend and distribute Video with Multi Functions

Support USB 2.0 . Bi-directional RS232/IR/Analog Audio extension and distribution

## ■ HDMI, DVI, VGA Signal mixable and Easy Integration

1080p HDMI, 4K HDMI, VGA and DVI signal available to integration over a LAN.

## ■ Signals that go for extra longer distance

Support SFP optical transceiver, single mode transmission distance up to 60KM.

## ■ Flexible and Scalable Matrix Switching with Video Wall Control

Transmitter unit up to 1000 pieces, Receiver unit over 60000 pieces.

Video Wall support up to 8 x16 (128 monitors)

## ■ Audio Embedded and Extractor

Support Dolby Trued®, and DTS-HD Master™, LPCM audio up to 7.1 channels 192Khz.

Built HDMI audio embedded and extract function, support HDMI audio and analog audio output at same time, also could be selectable.

# See why choose our video IP solution for any application

## ■ Video, Audio, USB ,IR, RS232 Function Free Routing

Ex: TV plays channel 1 video, channel 2 audio sound and controlled by channel 3 RS232 signal.

## ■ Low Compression and Ultra low latency

Enhance HD quality picture with low latency time 16ms. Support quick channel switching. 4K signal ~ 150 Mbs

## ■ Multiple Controls

Android/iOS APP with preview function

Windows software with preview function

Front panel button with 7 Segment Display.

IR remote control

RS232 Command

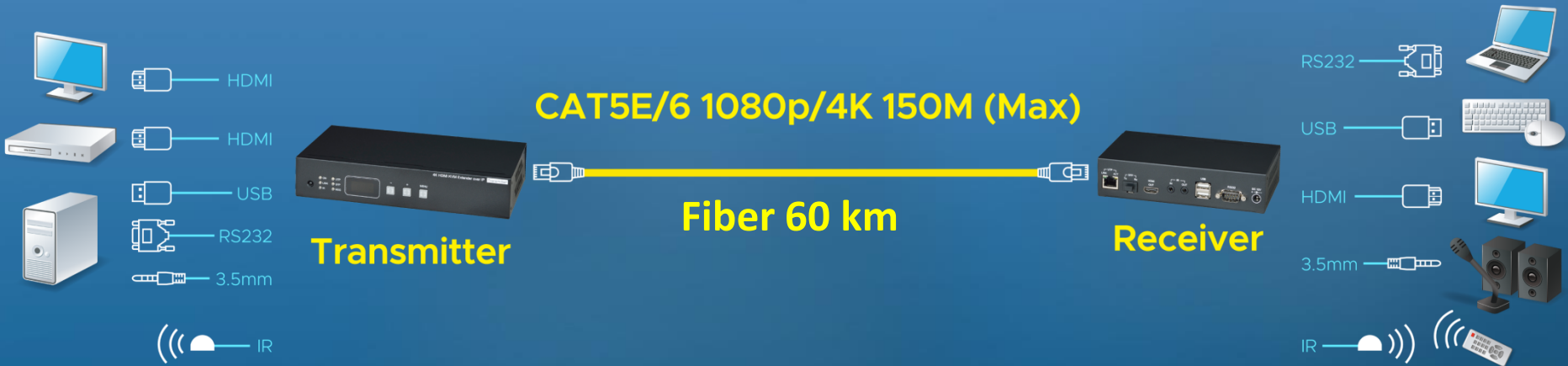
Telnet API command

External Keypad / Console box (Custom made available)

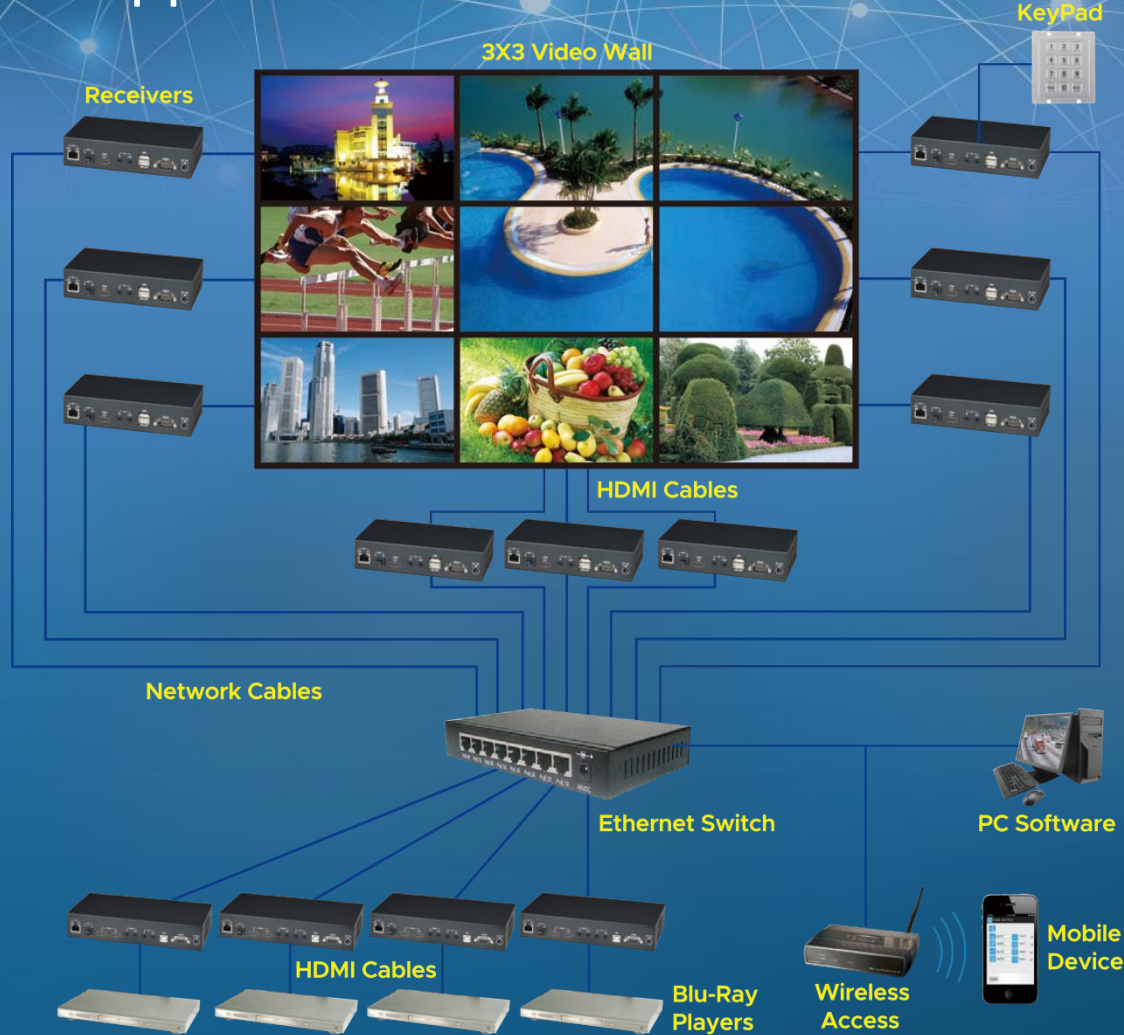
Flexible and Supports full duplex Bi-Directional RS232 communication (115200 MAX) automated control system to control devices attached to the extenders.

# Unicast Mode Application

Point to Point Video, USB with Bi-Directional IR/RS232 and Analog Audio Extender



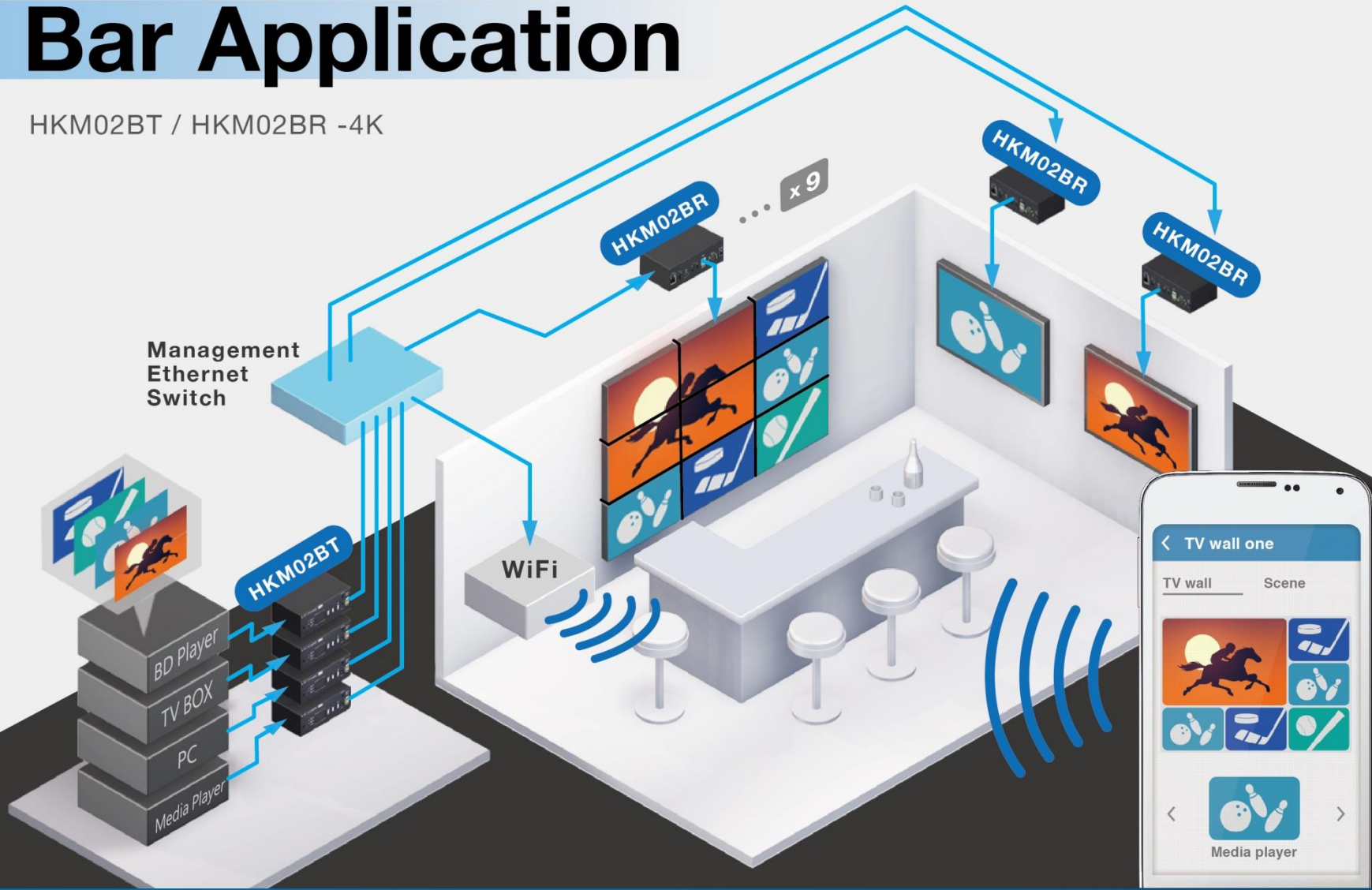
# Multicast mode Application with Video Wall and Matrix Switching





# Bar Application

HKM02BT / HKM02BR -4K





# Department store Application

HKM02BT / HKM02BR -4K



HKM02BT

Management Ethernet Switch

HKM02BR

HKM02BR

HKM02BR



3F



2F



1F

# Meeting Room/School Education Application

HKM02BT / HKM02BR -4K

- Remote Control Any Computer Over Lan Network.



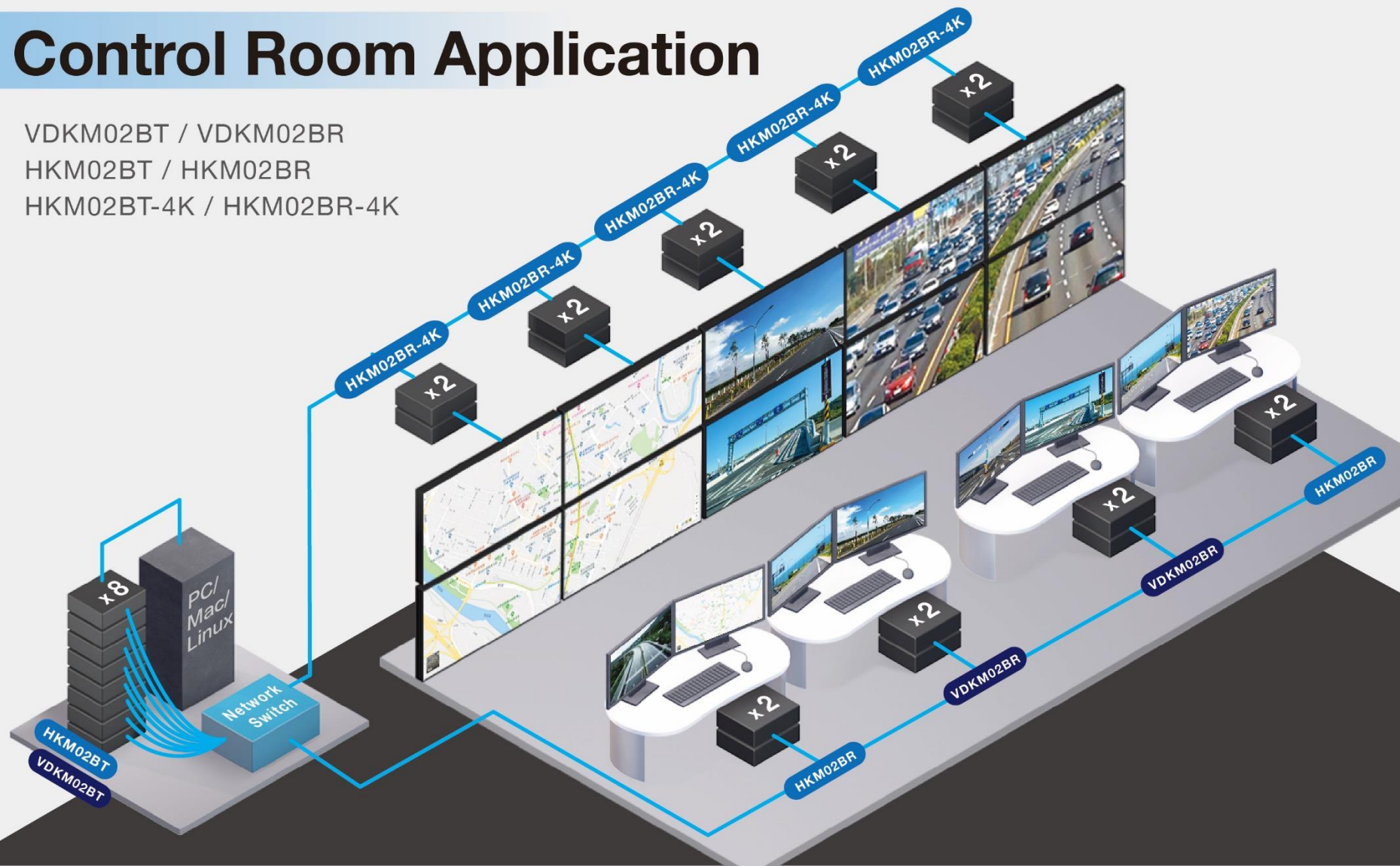


# Control Room Application

VDKM02BT / VDKM02BR

HKM02BT / HKM02BR

HKM02BT-4K / HKM02BR-4K

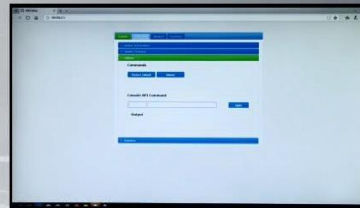




# Multiple Controls – Channel, Video Wall Switch



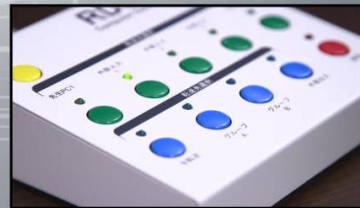
**RS232 Command**



**Telnet API Command**



**Windows Software**



**Console Box Control**



**Front Panel Button**



**Android/iOS APP**



**IR Remote Control**

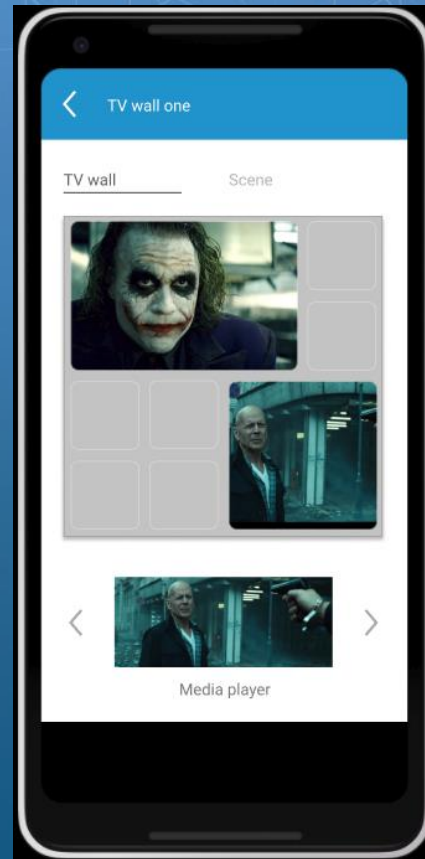


**External Keypad**

# Software Controls

The screenshot displays the 'TV Wall Manager' software interface. On the left is a dark sidebar with navigation options: Home, Scene, Schedule, Announcement, OSD, Audio, and Settings. The main area is titled 'TV Wall Manager' and has tabs for 'RX', 'GROUPS', and 'TV WALL'. Below these are sections for 'First Floor' and 'Second Floor'. The 'First Floor' section contains three TV wall configurations: two labeled 'Basement' and one labeled 'TV Wall 1'. Each configuration shows a video frame and associated channel information (Channel: 100, TX1602). A 'Custom wall' option is also visible. The 'Second Floor' section is partially visible with an 'EDIT +' button. On the right, a 'TV Source' panel shows a 'Frame' with a video player and a list of sources, including 'Basement' with channel and TX information. The Windows taskbar at the bottom shows the time as 12:32 PM.

# Smart Phone App Controls





# Select the HDMI DVI VGA IP Extender that suitable for your project

## HDMI Over IP Transmitter:

**HKM02BT-4K: 4K HDMI KVM & USB, RS232 , IR, Audio Transmitter**

**HKM02BTP-4K: 4K HDMI KVM & USB, RS232 , IR, Audio Transmitter with POE**

**HKM02BT: 1080p HDMI KVM & USB, RS232 , IR, Audio Transmitter**



## HDMI Over IP Receiver:

**HKM02BR-4K: 4K HDMI KVM & USB, RS232 , IR, Audio Receiver**

**HKM02BRP-4K: 4K HDMI KVM & USB, RS232 , IR, Audio Receiver with POE**

**HKM02BR: 1080p HDMI KVM & USB, RS232 , IR, Audio Receiver**



# Select the HDMI DVI VGA IP Extender that suitable for your project

## VGA /DVI Over IP Transmitter/Receiver:

- **VDKM02BT: VGA/DVI KVM & USB, RS232 , IR, Audio Transmitter**
- **VDKM02BR: VGA/DVI KVM & USB, RS232 , IR, Audio Receiver**



## 1U 19" Rack Mounting Panel :

- **TPN002BT: Fit 2 pcs of HKM02BT-4K transmitter unit**
- **TPN003BT: Fit 3 pcs of HKM02BT transmitter unit**
- **TPN002VD: Fit 2 pcs of VDKM02BT transmitter unit**

