



# Smart-e

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## 4Konnnect 4K-975-USB

4K resolution USB2 KVM extender using  
 HDBaseT2 over a single Cat 6 cable with  
 RS232, IR, S/PDif + POC



The **4K-975-USB** is a flexible and cost effective KVM extender for HDMI, USB 2.0, bi-directional IR, full duplex RS232 together with 100BaseT Ethernet and POC. Consisting of a transmitter/receiver pair, both units are compact and come with mounting brackets. By incorporating the full HDBaseT2 technology 4K UHD HDMI signals can be transmitted up to 100m.

**Distribute high resolution 4K UHD HDMI video together with USB 2.0, IR, RS232 and 100BaseT Ethernet over a single CAT 6 cable up to 100m**

The **4K-975-USB** is a HDBaseT KVM extender pair capable of distributing HDMI signals up to 4K UHD resolutions to 100m of Cat 5e-6 cable. By implementing the complete **5-Play** of the HDBaseT2 specification the extender pairs also provides the pass through of wide band bi-directional InfraRed signals, full duplex RS232 up to 115Kbaud and 100BaseT Ethernet. USB 2.0 extension is achieved by harnessing the internal 100BaseT Ethernet link within the HDBaseT protocol.

Each unit is powered via a 24V PSU which can also power the other remote device through the same cable

The 4K range from Smart-e is a family of digital extenders and matrices using standard CAT 6-8 STP/FTP cable to transmit 4K resolution signals over long distances

### The Smart-e 4K-975-USB features

- 4K @60Hz 4:2:0 colour space, 2K
- 4K @30Hz 4:4:4 colour space, 1080p
- **USB 2.0 extension with Hub**
- **Near Zero latency**
- Uncompressed Video transmission
- HDCP/EDID/DDC transparent link
- Outputs reach up to 100m
- **HDCP 2.2 & 1.4 compatible**
- Full duplex RS232 passthrough
- Bi-directional IR pass through
- 100BaseT Ethernet pass through
- **HDMI 2.0 to 4K 60Hz 4:2:0 8 bit colour**
- Bi-directional POC (Power Over Cable)
- Uses HDBaseT2 technology
- Bi-directional TOSLINK
- Compact TX/RX unit
- Easy to install, inexpensive CAT 5e-6 cable
- Secure lockable DC connector
- LPCM 7.1 audio, Dolby Atmos®, Dolby® TrueHD, DTS:X™, and DTS-HD Master Audio™ pass-through





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## SPECIFICATION

### Video

Signal Types	HDMI, DVI, DisplayPort Multimode
Formats	HDMI w/ Deep Color 3D, 4K, 2K
Content Protection	HDCP V2.2 transparent
Connector	HDMI Type A Female
Cable Types	CAT 5e, CAT 6/6e, CAT 7, STP, FTP
TV resolutions PC resolutions	480, 576, 720, 1080 p & i, 4K, 2K 640x480 through to 1920x1200

### Audio

Types	Embedded audio in HDMI
Digital Formats	Dolby Digital® Plus Dolby® TrueHD DTS-HD High Res DTS-HD Master Audio™, up to 8chPCM
Digital Connector	HDMI

### Dimensions

Height	30mm
Width	155mm
Depth	100mm
Weight	0.5Kg

### Power

Voltage	24Vdc
Connector	2.1mm Locking DC jack
Max. current	150mA
Power	7Watts RX, 5Watts TX

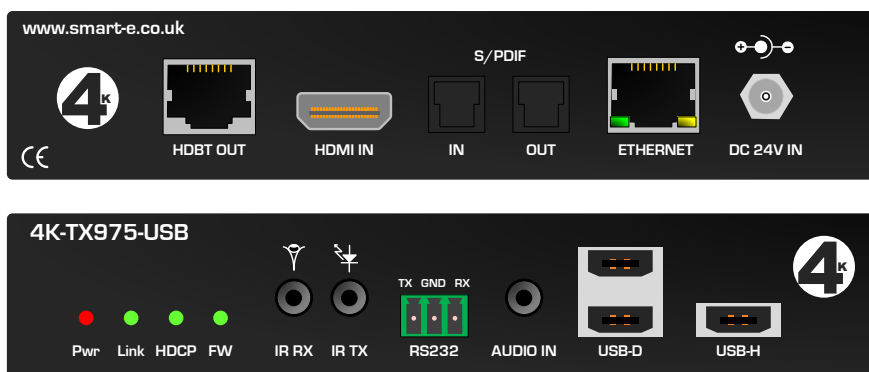
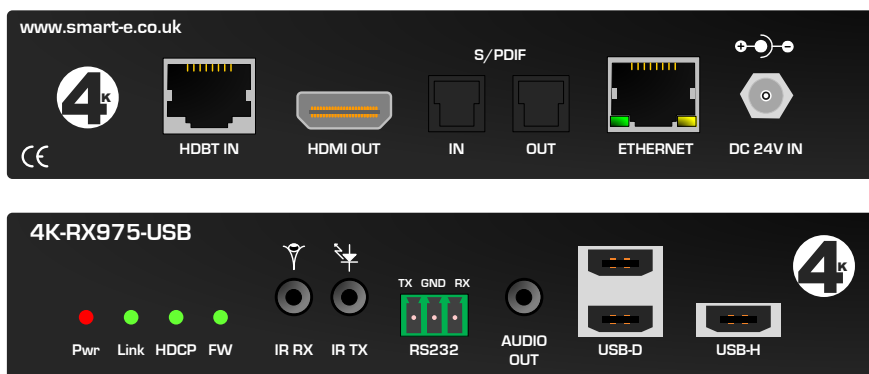
### Control

Ethernet	100BaseT
Ethernet connector	RJ45
DDC/EDID/CEC	Transparent
DDC/EDID connector	HDMI

### Control

IR signal	30-125kHz
IR connector	3.5mm jack socket
RS232	Pass through to 115Kbaud
RS232 connector	3.5mm jack socket

RECEIVER



TRANSMITTER









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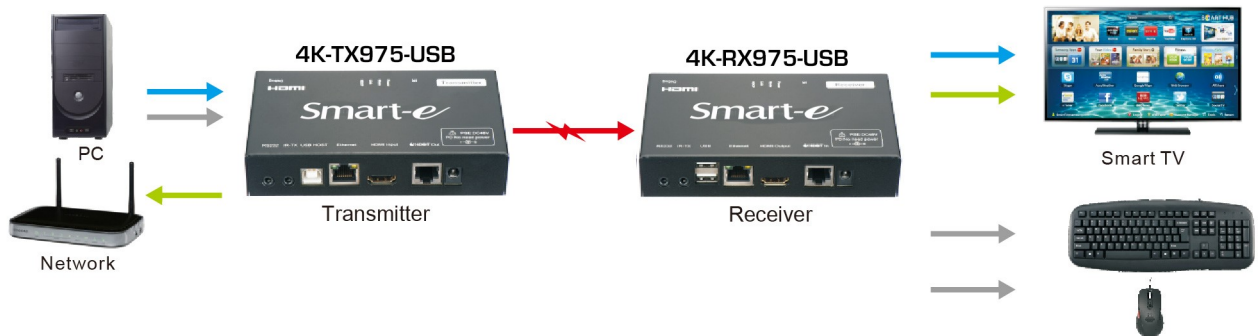
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## APPLICATION DRAWINGS



### 4K KVM extender

HDMI cable   
 POE   
 Cat5e/6 cable   
 USB cable   
 RS232 cable   
 IR cable 



### 4K TV interactive extender

