HDMI KVM Extender Set with USB 2.0 Extension

EXP-EX-80-KVM

WyreStorm
Essentials
Quickstart Guide

💡 WyreStorm recommends reading through this document in its entirety to become familiar with the product's features prior to starting the installation process.
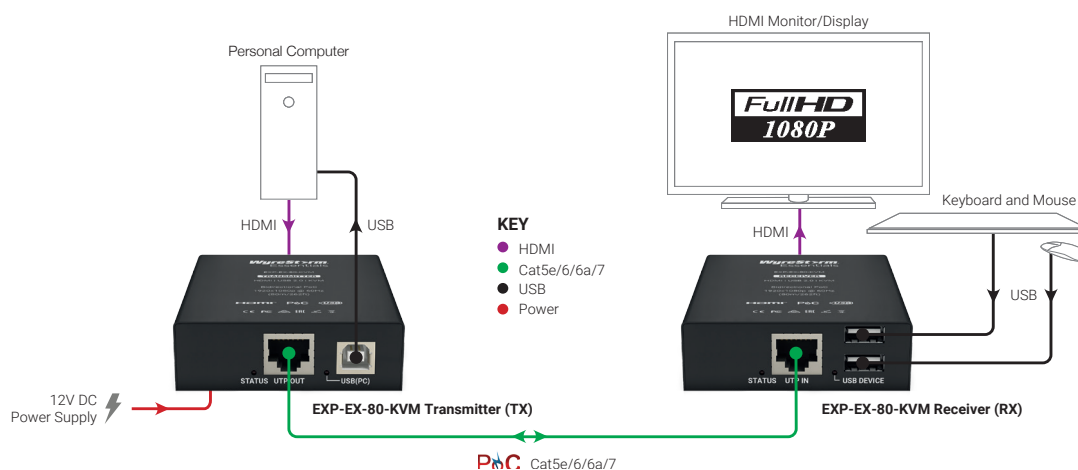
HDMI **HDCP** **PoC**

⚠ **IMPORTANT! Installation Requirements**
- Visit the product page to download the latest firmware, document version, additional documentation, and configuration tools.
- Read through the Wiring and Connections section for important wiring guidelines before creating or choosing premade cables.
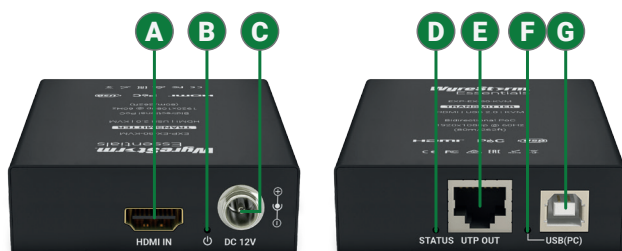
In the Box

1x EXP-EX-80-KVM Transmitter
1x EXP-EX-80-KVM Receiver
1x 12V DC 2A Power Supply (US/UK/EU/AU)
1x USB Type B to Type A Cable
4x Mounting Brackets

Basic Wiring Diagram

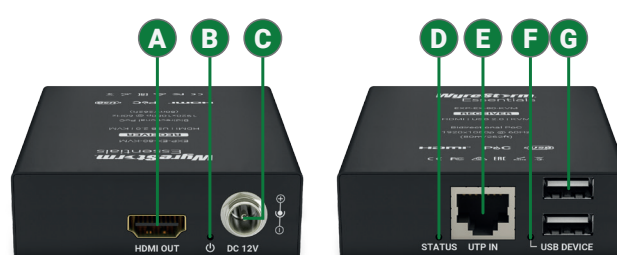UK: +44 (0) 1793 230 343 | ROW: 844.280.WYRE (9973)
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Transmitter (Front/Rear)

Receiver (Front/Rear)

A	**HDMI In**	19-pin type A HDMI female Supports HDMI and DVI/D with adapter
B	**Power LED**	**Solid:** The unit is powered On **Off:** The unit is powered Off
C	**Power In**	5.5mm Screw Down Barrel Jack Connect to the included 12V DC 2A power supply to the transmitter. A power supply is not required on the other end as it will be powered using PoC.
D	**Status LED**	**Flashing:** The receiver is operating normally. **Off:** The receiver is Not operating normally.
E	**UTP Out**	8-pin RJ-45 female Connect the transmitters **UTP OUT** to receivers **UTP IN.**
F	**USB LED**	**Solid:** USB linked **Flashing:** USB data transmitting **Off:** No USB device connected
G	**USB (PC) Host**	USB Type B female Connection of USB Host device

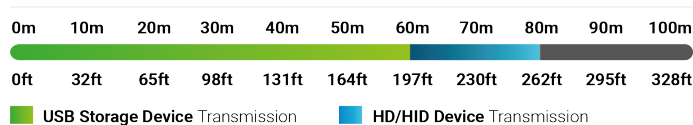|		
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E	**UTP In**	8-pin RJ-45 female Connect the transmitters **UTP OUT** to receivers **UTP IN.**
F	**USB LED**	**Solid:** USB linked **Flashing:** USB data transmitting **Off:** No USB device connected
G	**USB Device**	2x USB Type A female Connection of USB devices such as keyboards and mice.

Wiring and Connections

WyreStorm recommends that all wiring for the installation is run and terminated prior to making connections to the switcher. Read through this section in it's entirety before running or terminating the wires to ensure proper operation and to avoid damaging equipment.

⚠ **IMPORTANT! Wiring Guidelines**

- The use of patch panels, wall plates, cable extenders, kinks in cables, and electrical or environmental interference will have an adverse effect on signal transmission which may limit performance. Steps should be taken to minimize or remove these factors completely during installation for best results.
- WyreStorm recommends the use of shielded category cable to minimize signal noise and interference.
- WyreStorm recommends using pre-terminated HDMI cables due to the complexity of these connector types. Using pre-terminated cables will ensure that these connections are accurate and will not interfere with the performance of the product.

Cat6 Cable Performance Guide

0m	10m	20m	30m	40m	50m	60m	70m	80m	90m	100m

0ft	32ft	65ft	98ft	131ft	164ft	197ft	230ft	262ft	295ft	328ft

■ **USB Storage Device** Transmission   ■ **HD/HID Device** Transmission

WyreStorm recommends the use of shielded cable to minimize signal noise and interference

Troubleshooting

No or Poor Quality Picture (snow or noisy image)

- Verify that power is being supplied to the transmitter and receiving device
- Verify that all HDMI and UTP connections are not loose and are functioning properly
- Verify that the UTP cable is properly terminated following EIA568B standard
- Verify that the output resolution of the source and display is supported by this extender

Failed USB Connection or Slow Transmission rate

- Ensure the category cable length is within the range of requirement, USB HID device is within 80m/260ft, USB storage device is within 60m/200ft.

💡 **Troubleshooting Tips:**

- WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.

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Specifications

	Transmitter			Receiver
Audio and Video				
Inputs	1x HDMI In: 19-pin type A 1x USB Type B			1x UTP In: 8-pin RJ-45 Female 2x USB Type A
Outputs	1x UTP Out: 8-pin RJ-45 Female			1x HDMI Out: 19-pin type A
Output Video Encoding	UTP			
Encoding Data Rate	6.75Gbps			
End to End Latency (Max)	10μs (micro seconds)			
Audio Formats	2ch PCM | Multichannel up to DTS-X and Dolby Atmos			
Video Resolutions (Max)	Video Resolution	HDMI	Cat6	Cat6a/7
	1920x1080p @60Hz 12bit	15m/49ft	80m/262ft	80m/262ft
	Note: WyreStorm recommends the use of shielded category cable to minimize signal noise and interference			
Supported Standards	DCI | RGB			
Maximum Pixel Clock	225MHz			
Communication and Control				
HDMI	HDMI 1.3b | HDCP 1.4 | EDID | DVI/D supported with adapter (not included)			
UTP	HDMI 1.3b | HDCP 1.4 | EDID | 2-way PoC			
USB				
Power				
Power Supply				
PoC	IEEE 802.3af 48V 15.4W Max | 2-way			
Max Power Consumption	3.6W (per unit)			
Environmental				
Operating Temperature	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing			
Storage Temperature	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing			
Maximum BTU	12.28 BTU/hr			
Dimensions and Weight				
Rack Units/Wall Box	<1U			
Height	23mm/0.9in			
Width	75mm/2.95276in			
Depth	98.2mm/3.87in			
Weight	0.22kg/0.48lb (each)			
Regulatory				
Safety and Emission	CE | FCC | RoHS | RCM | EAC			

Note: WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.

Warranty Information