User Manual

Fiber Cable Extender Kit

Version: V2019.001

1. Introduction

The WolfPack Fiber Cable Extender Kit is a 4K60 fiber technology extender, it supports no compression, no losses, no latency HDMI+VGA signal transmission. All the signals are transmitted by one single LC single model Fiber Optic cable, for 1080P it can transmit to a distance of 2km, for 4K60Hz, it can up to 300m. Compatible with all the HDTV resolutions, HDMI2.0 protocol. Supports 3.5mm Audio embedded and de-embedded function, it can help users to have more choice whether the internal or external audio input and output; Supports EDID management, it provides users a wider way to work with different displays. So it can be popularly used in media conferencing room, school, government, cinema and so on applications.

2. Features

✓ Transmit highest quality audio and video, for 1080p can up to 2km and 4K60 can up to 300m over single model LC fiber optic cable

✓ Highest resolutions supported up to 4K2K@60Hz

✓ Equipped with EDID management capability

✓ Pure fiber optic design, no RFI/EMI

✓ 8-pin DIP switch for the resolution customizing in a second

✓ Supports 7.1 DTS Master HD, Dolby True HD,

✓ 3.5mm Audio embedded and de-embedded

3. Specification

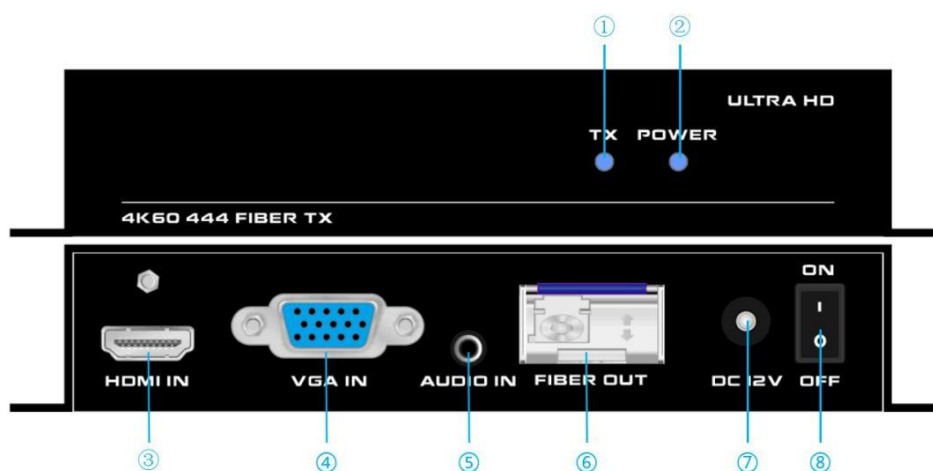| Model	FIBERHDV4K602KT	FIBERHDV4K602KR
Input	1*HDMI, 1*VGA, 1*3.5MM Audio, 1*RS232, 1*IR-TX, 1*IR-RX	1*LC FIBER
Output	1*LC FIBER	1*HDMI，1*3.5MM Audio, 1*IR-TX, 1*IR-RX
Protocol	Support HDMI2.0 and compatible with HDCP2.2, EDID Management	
Resolution	480i, 576i, 480p, 576p, 720p, 1080i, 1920 x 1080p up to 60Hz 3840/4096 x 2160 up to 60Hz	
Color Space	1080p: 36Bit Deep Color 4K: 8Bit True Color, 4:4:4	
Bandwidth	18Gbps	
Transmission Distance	2km (1080p60Hz) 300m (4K60Hz)	
Dimension	152*100*27(mm)	

Weight	200g
Power	AC: 100-240V 50/60Hz 1.5A Max DC: 12V 1500mA
Consumption	≤11W
Working Humidity	10%-90%
Working Temperature	0℃-50℃
Storage Temperature	-20℃-75℃

4. Packing

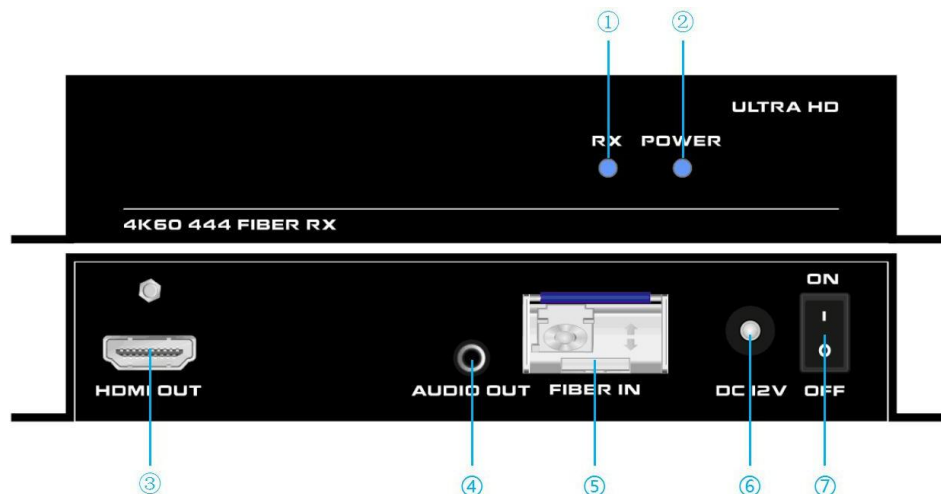| FIBERHDV4K602KT（Transmitter)	1	pcs
FIBERHDV4K602KR(Receiver)	1	pcs
Power adapter(DC 12V)	1	pcs

5. Panels

Transmitter

①TX: Working status indicator ②POWER: Power supply indicator
③ HDMI IN: HDMI input port ④VGA IN: VGA input port
⑤AUDIO IN: 3.5mm audio embedded input ⑥FIBER OUT: Fiber output port
⑦DC12V: DC 12V power supply port ⑧ON/OFF: Power ON/OFF switcher

Receiver

① RX: receiver working indicator   ② POWER: Power supply indicator
③ HDMI OUT: HDMI output port   ④ AUDIO OUT: 3.5mm audio De-embedded
⑤ FIBER IN: Fiber input port   ⑥ DC12V: DC 12V power supply port
⑦ ON/OFF: Power ON/OFF switcher

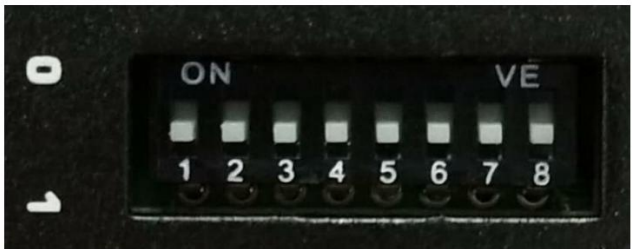## 6. Operation

6.1 Connection Diagram

6.2 EDID Management DIP Switch

On both of the transmitter and receiver bottom side, there's an 8-pin DIP switch for the resolution adjustment. Follow the setup map below for the settings

Transmitter:

Customize Resolution					3.5mm Audio		Null				IR Function	
DIP 1	DIP 2	DIP 3	DIP 4	Description	DIP 5	Description	DIP 6	Description	DIP 7	Description	DIP 8	Description
0	0	0	0	1080P@60Hz	0	Using External audio	0	Null	0	Null	0	IR off
0	0	0	1	1080P@50Hz	1	Using HDMI audio	1		1		1	IR on
0	0	1	0	3840*2160@50Hz								
0	0	1	1	720P@60Hz								
0	1	0	1	1366*768@60Hz								
0	1	1	0	1024*768@60Hz								
0	1	1	1	3840*2160@30Hz								
0	1	0	0									
1	0	0	0	3840*2160@24Hz								
1	0	0	1	480P@60Hz								
1	0	1	0	720P@50Hz								
1	0	1	1	576P@50Hz								
1	1	0	0	3840*2160@60Hz								
1	1	1	0	4096*2160@60Hz								
1	1	1	1	4096*2160@50Hz								

*Note: to use the external 3.5mm audio, please make sure the video format is HDMI signal.

Receiver side:

Customize Resolution					Customize Color Space			HDCP2.2		IR Function	
DIP 1	DIP 2	DIP 3	DIP 4	Description	DIP 5	DIP 6	Description	DIP 7	Description	DIP 8	Description
0	0	0	0	1080P@60Hz	1	1	RGB	0	HDCP On	0	IR off
0	0	0	1	1080P@50Hz	1	0	YUV422	1	HDCP Off	1	IR on
0	0	1	0	3840*2160@50Hz	0	0	YUV420				
0	0	1	1	720P@60Hz	0	1	YUV444				
0	1	0	1	1366*768@60Hz							
0	1	1	0	1024*768@60Hz							
0	1	1	1	3840*2160@30Hz							
1	1	1	1								
0	1	0	0	4096*2160@50							
1	0	0	0	4096*2160@30							
1	0	0	1	480P@60Hz							
1	0	1	0	720P@50Hz							
1	0	1	1	576P@50Hz							
1	1	0	1	1920*1200/60							
1	1	0	0	3840*2160@60Hz							
1	1	1	0	4096*2160@60Hz							