



Alfatron Electronics GmbH
Germany

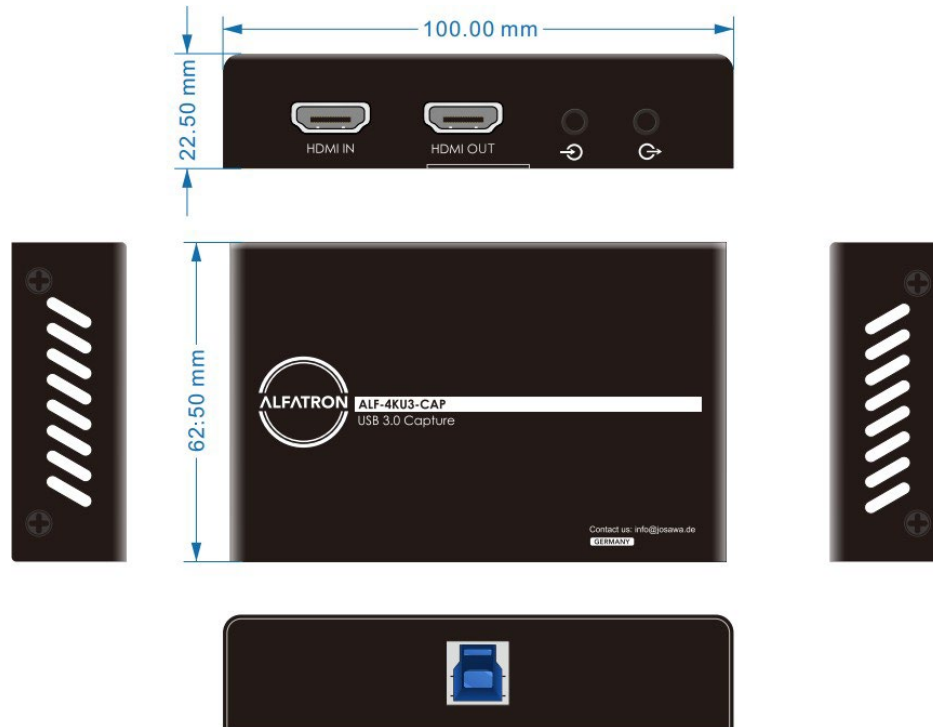
ALF-4KU3-CAP

HDMI to USB3 Capture Card

1 Description

The Alfatron ALF-4KU3-CAP is an HDMI to USB video capture dongle. It supports HDMI2.0 for input and output and USB3.0 for recording. The USB-B output can be used to power the device and capture videos with resolutions up to 4K@30 Hz or 1080p@120Hz. It can be widely used in video conference, multi-media broadcasting and other HDMI video capturing occasions.

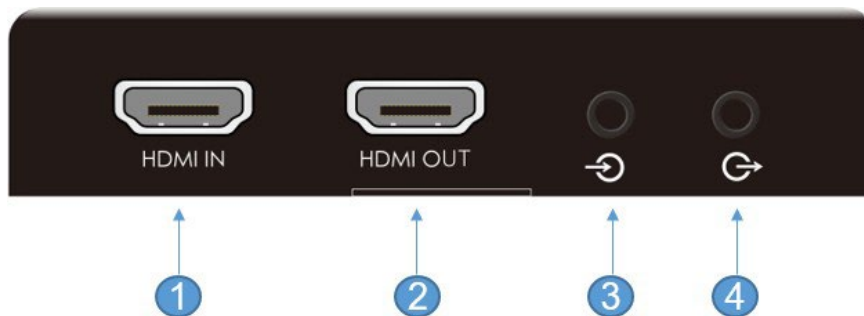
2 Drawings: ALFATRON



3 Features

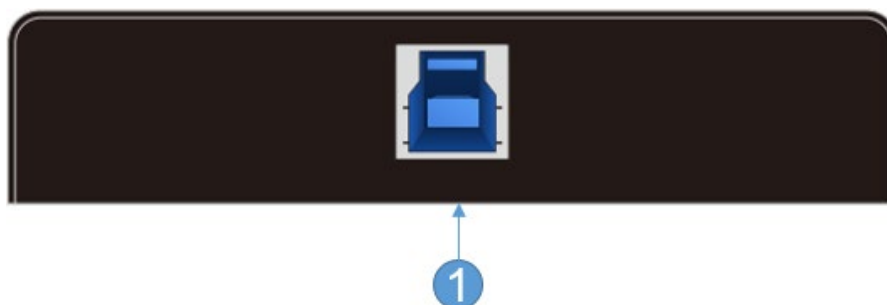
- Support HDMI input resolution up to 4k60 4:4:4; HDMI output resolution up to 4k60 4:4:4;
- Support HDCP2.2, backward compatible
- USB-B supports USB3.0 for recording
- USB-B capture support record resolution MAX up to 4K@30Hz or 1080P@120Hz
- **Compatible with Windows7/8/8.1/10/11, MacOS, LinuxOS system, plug and play**
- Support the third-party software compatible with UVC & UAC protocols, such as OBS/Potplayer/VLC/Skype/Zoom/Adobe Flash Media Live Encoder/Vmix/Xsplit/Wirecast, and live streaming platform software, etc.
- Support LINE mix input
- Support LINE out output
- Support YUY2, RGB32,NV12 capture format

Front Panel



Front Panel		
No.	Name & Description	Remark
1	HDMI IN	HDMI input port, connect to HDMI source
2	HDMI OUT	HDMI output port, connect to a display device such as TV
3	LINE IN	Connects to line input for audio mixing
4	LINE OUT	Connects to headphone for audio de-embedding

Rear Panel



Rear Panel		
No.	Name & Description	Remark
1	USB Record	Connects to laptop, PC or other recording device

4 Specifications

Description	HDMI to USB3.0 Video Capture Device
Input	(1) HDMI In, (2) LINE in
Input Connector	(1) HDMI, (2) 3.5mm jack
Output	(1) HDMI Out, (2) USB Record, (3) LINE out
Output Connector	(1) HDMI, (2) Type-B USB, (3) 3.5mm jack
HDMI Standard	Max up to HDMI2.0,18G
HDMI Input Resolution	Up to 4K@60Hz 4:4:4
HDMI LOOP Resolution	Up to 4K@60Hz 4:4:4
USB Version	USB3.0 transmission rate up to 300~350MB/s.
USB Output Color Space	YUV
HDMI Audio Format	PCM2.0 48KHz
Microphone Audio Format	PCM 2.0
Headphone Audio Format	PCM 2.0
OS Support	Windows, Mac OS X (10.12 or above), Linux.
Compatible Media Player	OBS, Potplayer, VLC and so on.
General	
Operation Temperature	0 to +55°C (0° to +131°F)
Storage Temperature	0 to +70°C (0° to +158°F)
Relative Humidity	10% to 90%, Non-condensing
Dimension (W*D*H)	100mm x 62.5mm x 22.5 mm
Net Weight	90g

			HDMI INPUT									
			3840x2160	3840x2160	1920x1080	1280x720	720x576	720x480	1920x1080i	720x576i	720x480i	
			60/50	30	60	60	50	60	60	50	60	
UVC Output	3840x2160 P30	NV12	x	√	x	x	x	x	x	x	x	x
	2560x1440 P60	NV12	x	√	x	x	x	x	x	x	x	x
	1920x1080 P120	NV12	√	√	√	√	√	√	√	√	√	√
	1920x1080 P60	NV12	√	√	√	√	√	√	√	√	√	√
	1280x720 P60	NV12	√	√	√	√	√	√	√	√	√	√
	720x576 P60	NV12	√	√	√	√	√	√	√	√	√	√
	720x480 P60	NV12	√	√	√	√	√	√	√	√	√	√
	640x480 P60	NV12	√	√	√	√	√	√	√	√	√	√
	2560x1440 P50	YUYV	x	√	x	x	x	x	x	x	x	x
	1920x1080 P60	YUYV	√	√	√	√	√	√	√	√	√	√
	1280x720 P60	YUYV	√	√	√	√	√	√	√	√	√	√
	720x576 P60	YUYV	√	√	√	√	√	√	√	√	√	√
	720x480 P60	YUYV	√	√	√	√	√	√	√	√	√	√
	640x480 P60	YUYV	√	√	√	√	√	√	√	√	√	√
	1920x1080 P60	RGB32	√	√	√	√	√	√	√	√	√	√
	1280x720 P60	RGB32	√	√	√	√	√	√	√	√	√	√
	720x576 P60	RGB32	√	√	√	√	√	√	√	√	√	√
	720x480 P60	RGB32	√	√	√	√	√	√	√	√	√	√
	640x480 P60	RGB32	√	√	√	√	√	√	√	√	√	√
	1920x1080 P60	P010	√	√	√	√	√	√	√	√	√	√
1280x720 P60	P010	√	√	√	√	√	√	√	√	√	√	

Note:

- Does not support 1080p or below resolutions up scaler to 2k(2560x1440),4k(3840x2160)
- The Max input resolution supports up to 4k@30, when inputs at 4k@60, it will downscale to 1080p

5 Chassis Design

Dimension (W x D x H)	100mm x 62.5mm x 22.5 mm
Raw Material	Black, Steel

6 Packaging

Package Requirement			
No.	Name	Description	Remark
1	Device	1 x ALF-4KU3-CAP	
2	Cable	1 x USB-B to USB-A cable at 0.5m	
3	User Manual card	1x With QR code card, as attached	

Warranty

1.1 This limited warranty covers defects in materials and workmanship in this product.

1.2 Should warranty service be required, proof of purchase must be presented to the Company. The serial number on the product must be clearly visible and not have been tampered with in any way whatsoever.

1.3 This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, improper packing and shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature. This limited warranty does not cover any damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by the Company to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product. This limited warranty does not cover equipment enclosures, cables or accessories used in conjunction with this product.

This limited warranty does not cover the cost of normal maintenance. Failure of the product due to insufficient or improper maintenance is not covered.

1.4 The Company does not warrant that the product covered hereby, including, without limitation, the technology and/or integrated circuit(s) included in the product, will not become obsolete or that such items are or will remain compatible with any other product or technology with which the product may be used.

1.5 Only the original purchaser of this product is covered under this limited warranty. This limited warranty is not transferable to subsequent purchasers or owners of this product.

1.6 Unless otherwise specified, the goods are warranted in accordance with the manufacturer's product specific warranties against any defect attributable to faulty workmanship or materials, fair wear and tear being excluded.

1.7 This limited warranty only covers the cost of faulty goods and does not include the cost of labor and travel to return the goods to the Company's premises.

1.8 In the event of any improper maintenance, repair or service being carried out by any third persons during the warranty period without the Company's written authorization, the limited warranty shall be void.

1.9 A 7 (seven) year limited warranty is given on the aforesaid product where used correctly according to the Company's instructions, and only with the use of the Company's components.

1.10 The Company will, at its sole option, provide one of the following three remedies to whatever extent it shall deem necessary to satisfy a proper claim under this limited warranty:

1.10.1 Elect to repair or facilitate the repair of any defective parts within a reasonable period of time, free of any charge for the necessary parts and labor to complete the repair and restore this product to its proper operating condition.; or

1.10.2 Replace this product with a direct replacement or with a similar product deemed by the Company to perform substantially the same function as the original product; or

1.10.3 Issue a refund of the original purchase price less depreciation to be determined based on the age of the product at the time remedy is sought under this limited warranty.

1.11 The Company is not obligated to provide the Customer with a substitute unit during the limited warranty period or at any time thereafter.

1.12 If this product is returned to the Company this product must be insured during shipment, with the insurance and shipping charges prepaid by the Customer. If this product is returned uninsured, the Customer assumes all risks of loss or damage during shipment. The Company will not be responsible for any costs related to the removal or reinstallation of this product from or into any installation. The Company will not be responsible for any costs related to any setting up this product, any adjustment of user controls or any programming required for a specific installation of this product.

1.13 Please be aware that the Company's products and components have not been tested with competitor's products and therefore the Company cannot warrant products and/or components used in conjunction with competitor's products.

1.14 The appropriateness of the goods for the purpose intended is only warranted to the extent that the goods are used in accordance with the Company's installation, classification and usage instructions.

1.15 Any claim by the Customer which is based on any defect in the quality or condition of the goods or their failure to correspond with specification shall be notified in writing to the Company within 7 days of delivery or (where the defect or failure was not apparent on reasonable inspection by the Customer) within a reasonable time after discovery of the defect or failure, but, in any event, within 6 months of delivery.

1.16 If delivery is not refused, and the Customer does not notify the Company accordingly, the Customer may not reject the goods and the Company shall have no liability and the Customer shall pay the price as if the goods had been delivered in accordance with the Agreement.

1.17 THE MAXIMUM LIABILITY OF THE COMPANY UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT.