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PRO-CaptureHD4K

USB 3.0 4K HDMI Video Capture Device with
loopout and audio de-embedder and mixer

User's Guide

1 YEAR WARRANTY RoHS FC CE

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Congratulations for owning a gofanco product. Our products aim to meet all your connectivity needs wherever you go.

Have fun with our products!

Please read this manual carefully before first use.

If you need more information about our products, please visit www.gofanco.com.

For technical support, please email us at support@gofanco.com.

For drivers/manuals download, please go to http://www.gofanco.com/download.

1. Introduction

The PRO-CaptureHD4K USB 3.0 4K HDMI Video Capture Device with loopout and audio de-embedder and mixer provides a professional way to capture HDMI video signals. It adopts USB 3.0 interface, which can realize high-speed transmission. Besides, the HDMI input and loopout can support up to 4K2K@60. With this device, users can connect to 4K2K@60 source and capture Full HD (1080p60) video. PRO-CaptureHD4K also uses large volume image buffer technology which effectively avoids the video tearing. The high sampling rate and high sampling accuracy assure images with high sharpness, rich details, and less color edges.

2. Features

- Captures in 1080p
- Supports HDMI input & loopout from 640x480 to 4K2K@60 (YUV 4:4:4)
- Supports HDMI resolution downscaling from 4K2K to 1080P
- Mixed audio support from Line-in & HDMI
- Supports HDMI audio extraction
- Supports UVC1.0
- HDMI video and audio streams over USB 3.0
- Auto-detection on video format to ensure plug-play operations
- Recording Video Format: H.264 (Software Compression)

- Works on multiple operating system platforms (Windows 7/8.1/10, Mac and Linux OS)
- Compatible with most 3rd party software such as OBS Studio and AMCap
- Supports USB 3.0 (MJPG/YUY2) and USB 2.0 (MJPG)
- Low Latency
- System Requirements (Recommended)
  - Windows® 7(SP1) / Windows 8.1 / Windows 10
  - PC: Intel® CoreTM i5-4440 3.10GHz + NVIDIA® GeForce® GTX 660 or higher
  - Laptop: Intel® Core i7-4810MQ + NVIDIA GeForce GTX 870M or higher
  - 4GB RAM or higher

!

1. Video quality is influenced by the system's capability and software settings.
2. Please use the included USB 3.0 cable to protect the device and avoid compatibility issues.
3. NOT supports
   (1) Resolution downscaling from 4K2K@60 4:2:2 to 1080P
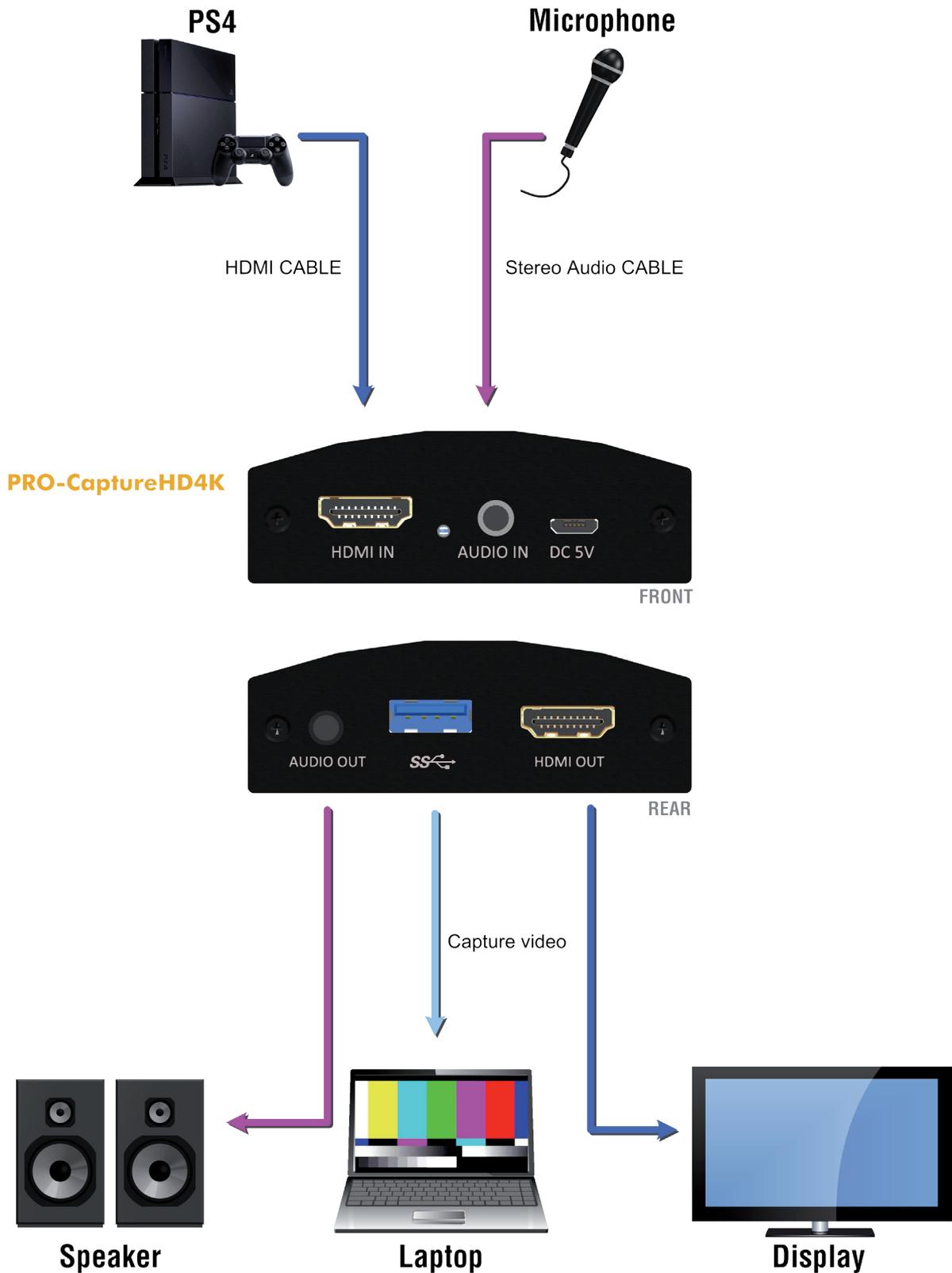   (2) 4K2K@60 4:2:2 to 4K2K@60 4:2:0

3. Package Contents

- 1x PRO-CaptureHD4K
- 1x USB 3.0 A to A Cable (host to device)
- 1x DC 5V wall wart
- 1x User Manual

4. Specifications

Item	Description		
Technical			
Role of usage	Video Capture Device		
Input Video bandwidth	Single-link 600MHz [18Gbps]		
Output Video bandwidth	Up to 350MBps (USB)		
Video support	Up to 4K60		
Audio Input	HDMI Embedded Audio & Stereo audio Input		
Audio Format	2CH 16bit PCM		
Recording Mode	Software Compression		
Recording Video Format	YUY2 (USB3.0), MJPG (USB2.0/3.0)		
ESD protection	Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge]		
PCB stack-up	6-layer board [impedance control — differential 100Ω; single 50Ω]		
Firmware update	Feasible via USB port		
Input	1x HDMI+ 1x 3.5mm		
Output	1x USB+ 1x HDMI+ 1x 3.5mm		
HDMI connector	Type A [19-pin female]		
USB connector	USB 3.0 Type A (SuperSpeed USB)		
Software compatibility (not complete list)	OBS Studio (Windows, Linux), AMCap (Windows), Potplayer (Windows) , VLC (OS X, Linux), XSplit Boardcast (Windows), Skype (Windows, OS X), Zoom (Windows), Hangout (Windows), TeamViewer (Windows)		
OS Support	Windows 7 /8.1 /10, Mac and Linux OS		
Mechanical			
Housing	Metal enclosure		
Dimensions [L x D x H]	Model	105 x 68 x 24mmmm [4.1" x 2.7" x 0.9"]	
	Package	198 x 137 x 74mm [7.8" x 5.4" x 2.9"]	
	Carton	420 x 400 x 300mm [1'4"x 1'3" x 11.8"]	
Weight	Model	132g [4.6 oz]	
	Package	404g [14.2 oz]	
Power supply	5V 2A DC		
Power consumption	3 Watts [max]		
Operation temperature	0~40°C [32~104°F]		
Storage temperature	-20~60°C [-4~140°F]		
Relative humidity	20~90% RH [no condensation]		

5. Connection Diagram

PS4

Microphone

HDMI CABLE

Stereo Audio CABLE

PRO-CaptureHD4K

HDMI IN AUDIO IN DC 5V

FRONT

AUDIO OUT SS← HDMI OUT

REAR

Capture video

Speaker

Laptop

Display

6. Panel Description

1 2 3 4   **5 6 7**

1. **HDMI IN:** Connect to a HDMI source
2. **LED INDICATOR:** Input signal indicator LED
3. **STEREO AUDIO IN:** Connect to analog stereo audio source
4. **Micro-USB Port:** Connect to the +5V DC power supply unit
5. **STEREO AUDIO OUT:** Audio extracts from HDMI input
6. **USB OUT:** Connect to a USB host (PC, NB, MAC...)
7. **HDMI LOOPOUT:** Connect to a HDMI display

7. USB Pin Definition

P1   P2

	P1			P2
VBUS	1	←→		1
D-	2	←→		2
D+	3	←→		3
GND	4	←→		4
StdA_SSRX-	5	←→		5
StdA_SSRX+	6	←→		6
GND	7	←→		7
StdA_SSTX-	8	←→		8
StdA_SSRX+	9	←→		9
Shield	SHELL	←→		SHELL

8. Limited Warranty

The SELLER warrants the **PRO-CaptureHD4K** **USB 3.0 4K HDMI Video Capture Device with loopout and audio de-embedder and mixer** to be free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surges.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables are limited to a 30 day warranty and cable must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the PRO-CaptureHD4K features and specifications is subject to change without further notice.

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