VANCO
ADVANCING...CONNECTIVITY

4K HDMI® to USB
Video Capture Device
with Audio Embedding
and De-embedding

Vanco Part Number:
CAPT4K1

DEAR CUSTOMER

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

This product is 100% inspected and tested in the United States to verify HDMI performance parameters.

WARNING

1. Do not expose this unit to water, moisture, or excessive humidity.

2. Do not install or place this unit in a built-in cabinet, or other confined space without adequate ventilation.

3. To prevent risk of electrical shock or fire hazard, due to overheating, do not obstruct unit's ventilation openings.

4. Do not install near any source of heat, including other units that may produce heat.

5. Do not place unit near flames.

6. Only clean unit with a dry cloth.

7. Unplug unit during lightening storms, or when not used for an extended period of time. A surge protector is strongly recommended.

8. Protect the power cord from being walked on or pinched, particularly at the plugs.

9. Use unit only with accessories specified by the manufacturer.

10. Refer all servicing to qualified personnel.

CAUTION

HDMI is a very complex technology requiring continuous authentication of the signal and the same video resolution and audio settings on all electronic equipment in the system. When there are multiple sources and displays, the video resolution and audio setting on all connected units must be adjusted to correspond with that of the display having the lowest video and audio capability.

The Adopted Trademarks HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registers trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.

FEATURES

The Vanco CAPT4K1 is a device that allows an HDMI source to be streamed or recorded, resulting in converted content that can be viewed on computers and other commonly found capture software locally and/or remotely. With today's changing world of virtual attendance, the CAPT4K1 can be utilized in a number of ways such as virtual learning, meetings, gaming, or to stream a worship service. HDMI signals from video recorders, webcams, game consoles, and mobile devices can be converted to be recorded or live streamed. An HDMI loop-out that passes through 4K@60Hz and HDR, allows for viewing the content on a main or local display while capturing simultaneously on a computer. The CAPT4K1 also features a MIC input for audio to be embedded onto the streamed/recorded signal or de-embedded for local use and monitoring with a headphone jack. With the ability to capture HDMI source signals, embed and de-embed audio, and connect to an HDMI display, the CAPT4K1 is a great solution for any recording and editing application.

4K HDMI® to USB Video Capture Device with Audio Embedding and De-embedding
Part # CAPT4K1

- Captures video and audio from HDMI sources that can be recorded and/or streamed
- Utilize for virtual learning, meetings, gaming, and more
- Great solution to capture HDMI signals and send to a remote audience, or to record for playback
- Supports HDMI input resolutions up to 4K@60Hz, 4:4:4 chroma sampling and HDR10
- HDMI loop-out that supports 4K@60Hz, 4:4:4, and HDR10 pass-through allows to connect a local or main display while capturing source signal simultaneously
- Maximum resolution for captured HDMI source signals up to 1080p@60Hz, converts 4K resolutions to 1080p
- Compatible with multiple third-party applications, such as OBS and VLC
- MIC input for connecting microphone or other audio source for audio mixing and embedding
- Headphone jack for connecting headphones, headset, or amplifier for audio de-embedding/extraction
- Powered from USB port; no external power supply required
- Features low latency
- Dimensions: 4" x 0.1" x 2.4" (102mm x13mm x 61mm)

PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- (1) CAPT4K1 Capture Device
- (1) USB 3.0 Cable
- Product Manual

SPECIFICATIONS

Input .... (1) HDMI In, (1) Microphone/Audio In

Input Connector .... (1) Type-A HDMI, (1) 3.5mm jack

Output .... (1) HDMI Out, (1) USB 3.0, (1) Headphone/Audio Out

Output Connector .... (1) Type-A HDMI, (1) Type-A USB, (1) 3.5mm jack

HDMI Standard... 2.0

HDMI Input Resolution... Up to 4K@60Hz 4:4:4, HDR10

HDMI Output Resolution .... Up to 4K@60Hz 4:4:4,HDR10

USB Output Color Space.. YUV2, RGB

HDMI Audio Format .... LPCM 7.1 audio, Dolby Atmos®, Dolby® TrueHD, Dolby Digital® Plus, DTS:X™, and DTS-HD® Master Audio™ pass-through

Audio Input Format .... PCM 2.0

Audio Output Format... PCM 2.0

OS Support .... Windows, Mac OS X, Linux

Compatible Media Player .... OBS, VLC, and other 3rd party programs

Operational Temperature .... -5 to +55°C (+23° to +131°F)

Storage Temperature .... -25 to +70°C (-13° to +158°F)

Relative Humidity .... 10% to 90%, Non-condensing

Dimension (W*H*D).. 4" x 0.1" x 2.4" (102mm x13mm x 61mm)

Weight .... 0.16 lbs

Video Capture Format

Note that while the CAPT4K1 will pass-through up to 4K@60Hz and HDR10 out of the HDMI loop-out, the captured video maximum resolution is 1080p@60Hz. 4K resolutions will be converted to 1080p, see below table for the captured resolution based off the input resolution:

HDMI Source	Captured Video by USB
4K@60Hz 4:4:4 and HDR10	1080p@60Hz/720p
1080p@60Hz 4:4:4	1080p@60Hz/720p
720p	720p
480p	480p
576i	576i

PANEL DESCRIPTIONS
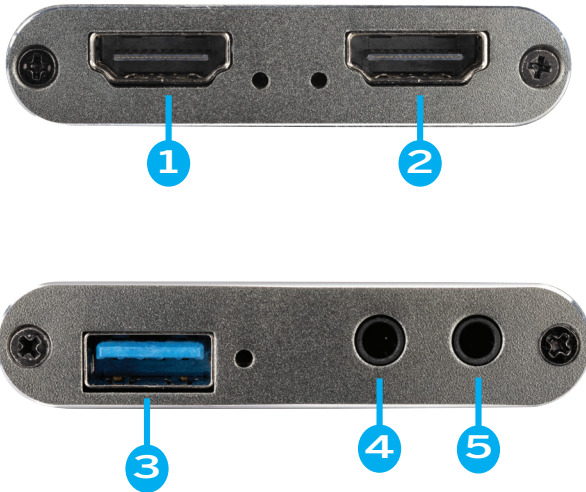
1. HDMI IN: Connect an HDMI source
2. HDMI Out: HDMI loop-out to connect to a local HDMI display
3. USB Record: Connects a laptop, PC or other recording device
4. Audio Output/Headphone: Connect headphones, headset, or amplifier for audio de-embedding/extraction
5. Audio Input/MIC: Connect microphone or other audio source for audio mixing and embedding

CONNECT AND OPERATE

System Requirements

• The recording device with available type-A USB port
• Microsoft Windows, Mac OS X or Linux
• The OBS studio is recommended to be used for video capture with its lower latency

CONNECT AND OPERATE

1. Connect an HDMI source to the HDMI input of the CAPT4K1

NOTE: The CAPT4K1 is to be used with non-HDCP video content and sources

2. (OPTIONAL) Connect the HDMI OUTPUT and/or audio port labeled with headphones to a local monitor or amplifier as needed.

3. Connect the provided USB cable to the CAPT4K1 to a PC, computer, etc. via USB

4. Download the video capture software (see "Recording for Windows using OBS" section)

NOTE: Below are instructions and screenshots when using OBS Studio software.

Visit https://obsproject.com/ to download OBS Studio

5. Select VIDEO CAPTURE DEVICE for audio and video within the software being used

NOTE: See further instructions for use specifically with OBS

RECORDING FOR WINDOWS USING OBS

Note: The OBS Player is the first recommended software used for video capturing. Please visit https://obsproject.com/to download the player for Windows, Mac OS X or Linux.
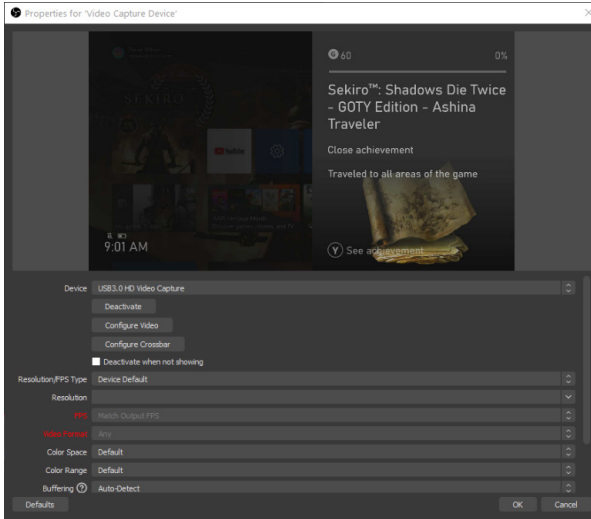
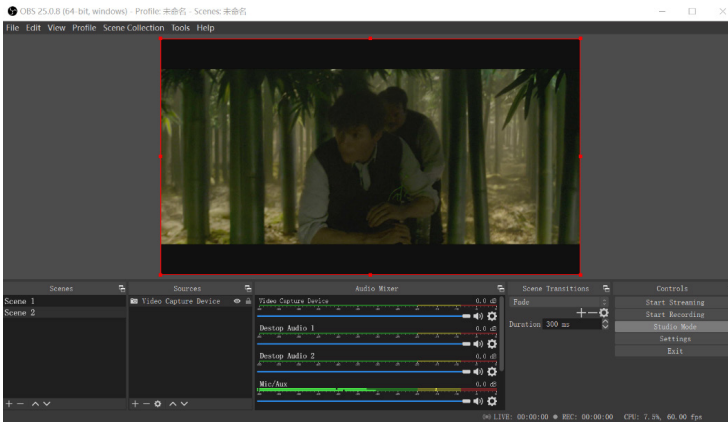1. Click the "+" icon at "Sources" zone, and then click "Video Capture Device"
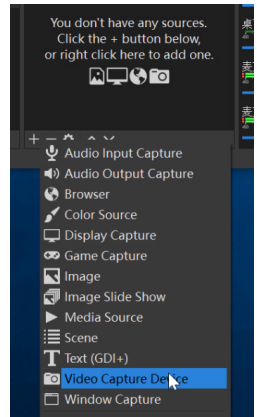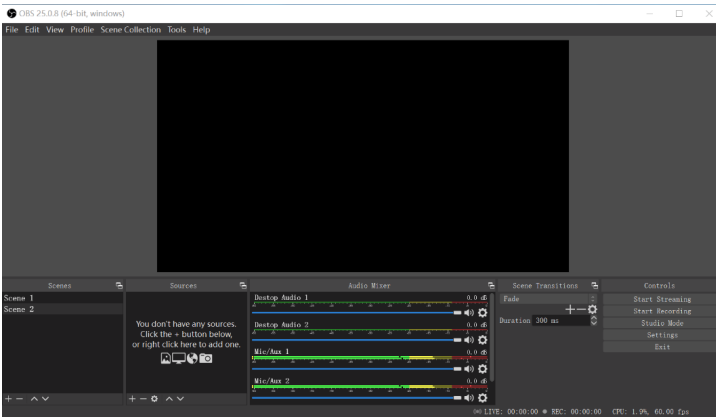
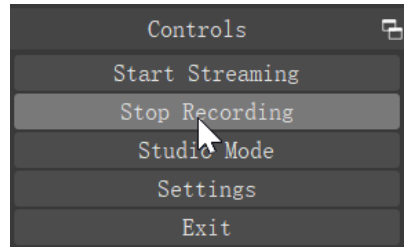2. Type the new device name, and then click "OK" to create new source
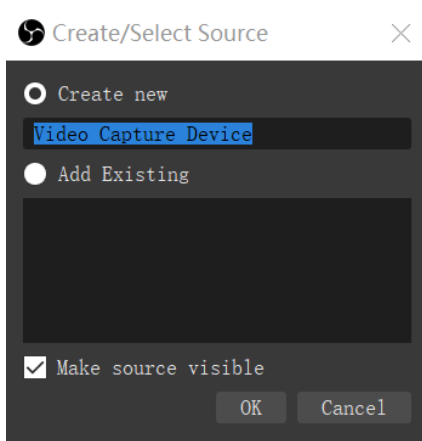
3. Select the video capture device and configure the video parameters, and then click "OK"
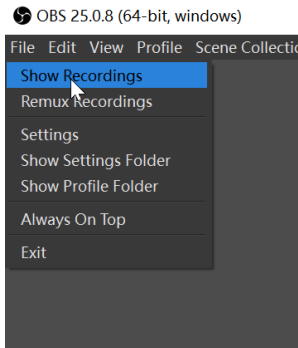

4. Click "Start Recording" under "Controls" and the video and audio recording will start
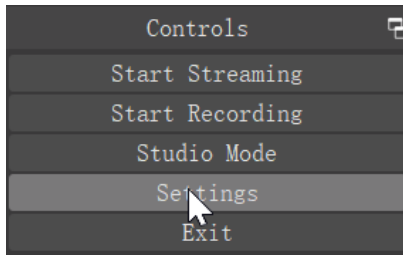

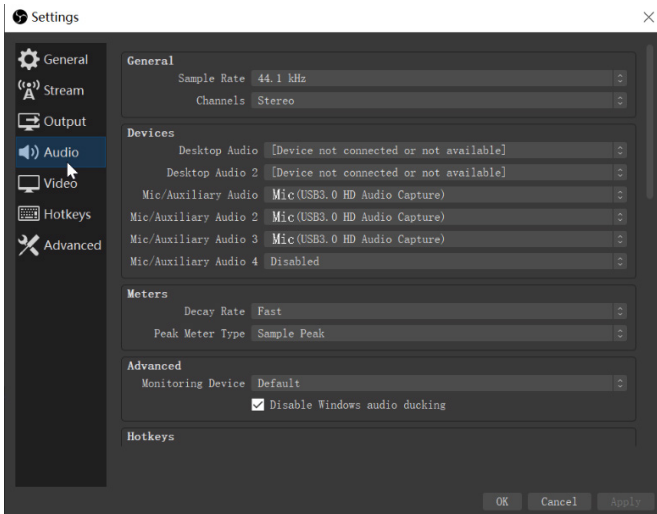5. To stop recording, simply click the "Stop Recording"

6. To recover a recorded file, select "File", and then click "Show Recordings" at the top-down menu. The saved recording video file can be found
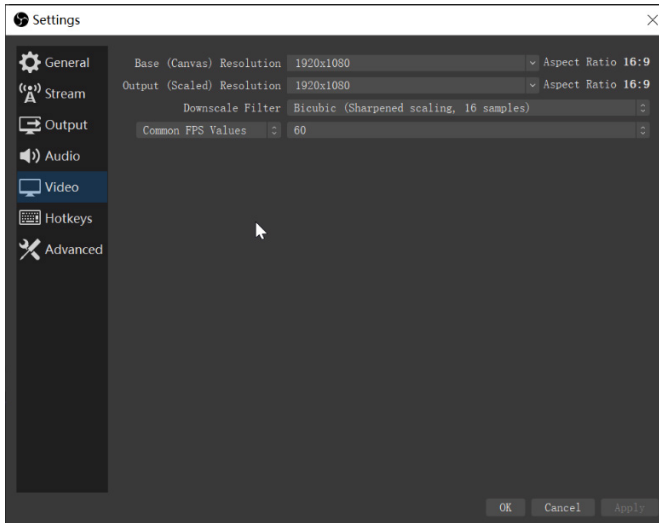

7. To configure audio and video parameters, click "Settings" at "Controls" zone

8. Here you can setup and manage your audio and video settings based on your needs

SAFETY AND NOTICE

The CAPT4K1 has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment, the CAPT4K1 should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit.
- Always unplug the power to the device before cleaning.

LIMITED WARRANTY

With the exceptions noted in the next paragraph, Vanco warrants to the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of two years from the date of purchase. Should this product, in Vanco's opinion, prove defective within this warranty period, Vanco, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of Vanco. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into Vanco products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to Vanco. A surge protector, power conditioner unit, or an uninterruptible power supply must be installed in the electrical circuit to protect against power surges.

If repairs are needed during the warranty period the purchaser will be required to provide a sales receipt/sales invoice or other acceptable proof of purchase to the seller of this equipment. The seller will then contact Vanco regarding warranty repair or replacement.

LIABILITY STATEMENT

Every effort has been made to ensure that this product is free of defects. The manufacturer of this product cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user and installer of the hardware to check that it is suitable for their requirements and that it is installed correctly. All rights are reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

Manufacturer reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.

TECHNICAL SUPPORT

In case of problems, please contact Vanco Technical Support by dialing 1-800-626-6445. You can also email technical support issues to techsupport@vanco1.com.

When calling, please have the Model Number, Serial Number (affixed to the bottom of the unit) and Invoice available for reference during the call.

Please read this Instruction Manual prior to calling or installing this unit, since it will familiarize you with the capabilities of this product and its proper installation.

All active electronic products are 100% inspected and tested to insure highest product quality and trouble-free installation and operation. The testing process utilizes the types of high-definition sources and displays typically installed for entertainment and home theater applications.

For additional information, such as helpful installation videos, glossary of terms, etc. please visit vanco1.com

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