



4K HDMI GRABBER

HDMI to USB 3.0 Video Capture Box



User manual (v.9)

- English -

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A. Introduction

The Pengo 4K HDMI Grabber is designed to support a 4K UHD Video output and capture audio/video HDMI Source. Transferring audio/video between the grabber and your PC/NB via USB easily enables streamers to capture each sound and movement. Using the Pengo 4K HDMI Grabber will allow a stable video capture in 1920 x 1080p at 60 fps without affecting the performance of your computer.



B. Features

- Supports HDMI 2.0 4K @ 60 fps 4:4:4 input
- Supports HDMI 2.0 Pass-through output
- USB 3.0 Video Capture at 1080p @ 60 fps
- Supports UVC 1.0
- Supports microphone input
- Supports 3.5mm stereo headphone output
- Captures PS4 Pro and Xbox One X game display
- GUI Control interface for Windows

C. Inside the box

- Pengo 4K HDMI Grabber x 1
- User Manual x 1
- USB 3.0 Cable x 1

D. Specifications

DESCRIPTION	4K UHD HDMI to USB 3.0 Video Grabber	
INPUT INTERFACE	1 x HDMI type A	1 x 3.5mm audio input
INPUT RESOLUTION	640 x 480p, 60Hz 1280 x 720p, 30Hz, 50Hz, 60Hz 1920 x 1080p, 24Hz, 25Hz, 30Hz, 50Hz, 60Hz 3840 x 2160p, 24Hz, 25Hz, 30Hz, 50Hz, 60Hz	
HDMI VIDEO SAMPLING	4:4:4 format	
OUTPUT INTERFACE	1 x HDMI type A, loop-through output	
	1 x USB Type A (USB 3.0, USB 2.0), supporting UVC video and audio	
	1 x 3.5 mm audio output	
OUTPUT RESOLUTION	Up to 3840 x 2160p @ 60 Hz via HDMI 640 x 480p, 60Hz 1280 x 720p, 30Hz, 50Hz, 60Hz 1920 x 1080p, 24Hz, 25Hz, 30Hz, 50Hz, 60Hz 3840 x 2160p, 24Hz, 25Hz, 30Hz, 50Hz, 60Hz	
	Up to 1080p @ 60 Hz via USB 640 x 480p, 60Hz 1280 x 720p, 30Hz, 50Hz, 60Hz 1920 x 1080p, 24Hz, 25Hz, 30Hz, 50Hz, 60Hz	
UVC COLOR SPACE	YUY2 (4:2:2), RGB 4:4:4 (MJPG)	
AUDIO INPUT	HDMI, 16-bit PCM encoded audio at 44.1kHz, 48kHz, 96kHz and 192kHz sampling rates	
	Stereo microphone input	
AUDIO OUTPUT	16-bit PCM encoded audio at 48kHz sampling rates	
	Stereo headphone output	
OS SUPPORT	Microsoft Windows (8 and above) Mac OS X (10.13 and above)	
ENVIRONMENT	Operating temperature 0 ~ 45°C Operating humidity 20 ~ 90% Storage temperature -20 ~ 60°C	
DIMENSION	65 x 85.6 x 15.2 mm (W x L x H)	
WEIGHT	91G	

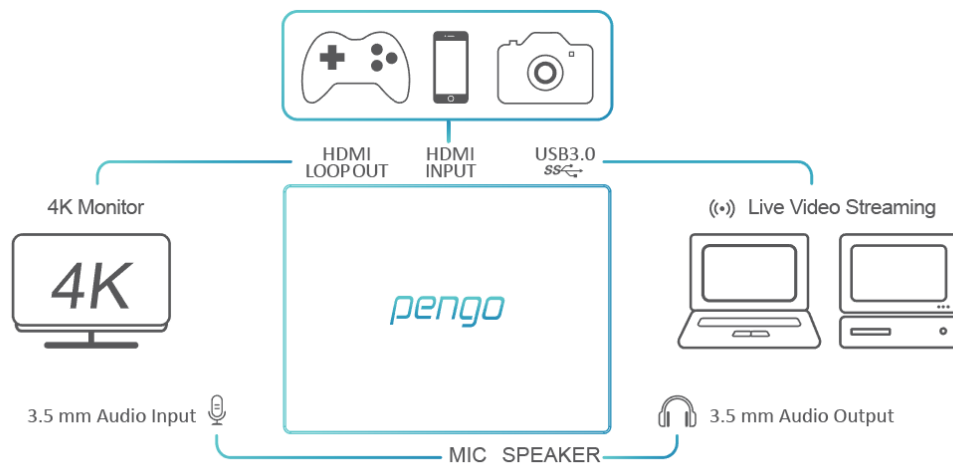
E. System requirements

CPU: i5 Dual Core 2.8GHz or higher
RAM: 4GB or higher
OS: Microsoft Windows (8 and above)
Mac OS X (10.13 and above)

*Note: Not able to record HDCP content (ie: DVD, BlueRay player...etc)

F. Installation

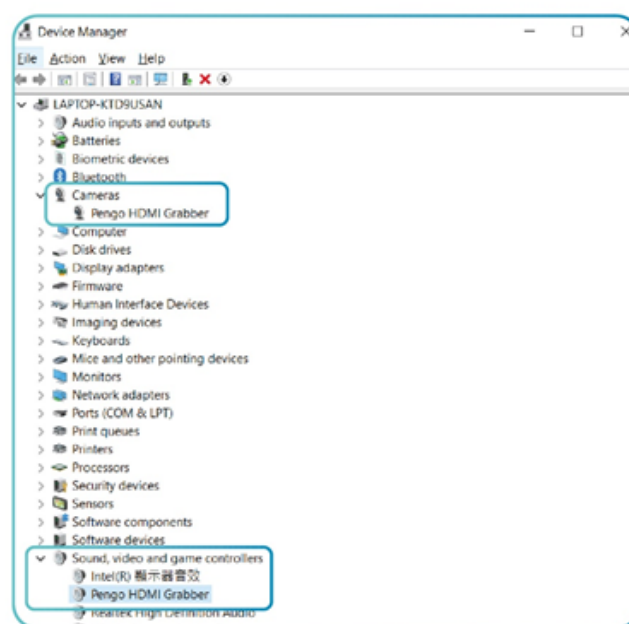
1. Connect Pengo 4K HDMI Grabber into the computer USB 3.0 Port using the USB 3.0 cable inside the package.
2. Plug in your devices (ie: PS4 Pro, Xbox One X) with an HDMI Cable into the HDMI input port.
3. Plug in your display device (ie: monitor) with a HDMI Cable into Pengo 4K HDMI Grabber LOOP out port.
4. Plug in your 3.5mm headphones and microphone into their perspective ports.



G. Operating Instructions (Windows with PotPlayer)

1. PotPlayer

- 1.1 After plugging in your device, go to [Device Manager] to make sure [Pengo HDMI Grabber] is detected



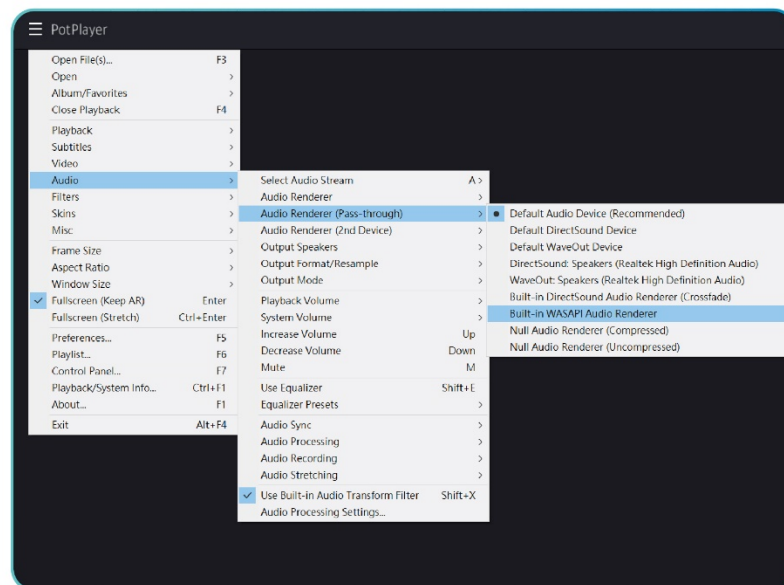
- 1.2 Download PotPlayer : <https://potplayer.daum.net/>
(install base on your OS version)



- 1.3 Open PotPlayer (different versions will have different interface)

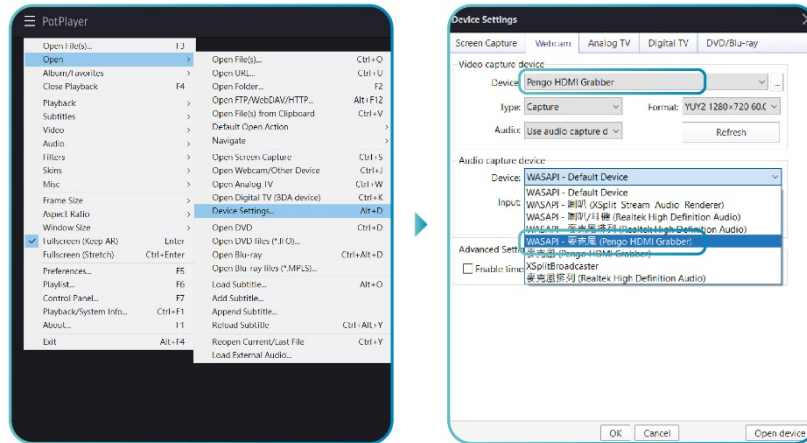
- 1.4 Sound settings

Under PotPlayer menu, go to Audio -> [Audio Renderer (Pass-through)] -> select [Built-in WASAPI Audio Renderer]



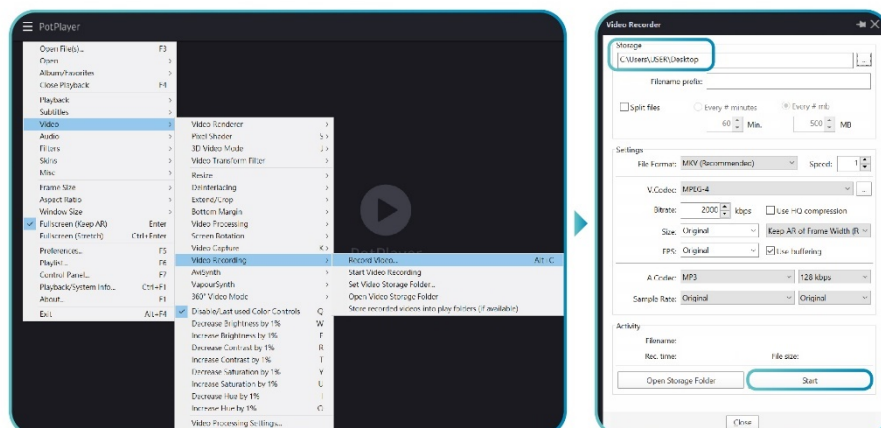
1.5 Select Device

- I. Under Menu > Open -> Device Settings
- II. Under Webcam -> Video capture device, under Device select -> [Pengo HDMI Grabber]
- III. Audio capture device -> under Device select -> [WASAPI – Mic (Pengo HDMI Grabber)]
- IV. Press [Open device], You'll be able to see your video and audio



1.6 Video Recording

- I. Go to the Menu -> Video -> Video Recording -> Record Video
- II. Select your storage location
- III. Press [Start]



H. Operating Instructions (Mac OS with VLC or QuickTime) **Newer version of VLC might not work

1. VLC

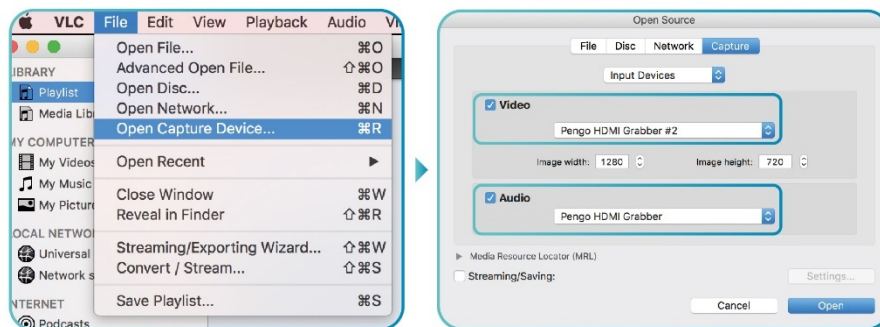
1.1 Download VLC at <https://www.videolan.org/index.html>



1.2 Open VLC

1.3 Go to File -> Open Capture Device

1.4 Under Capture, check the video and audio box and select [Pengo HDMI Grabber] and press Open

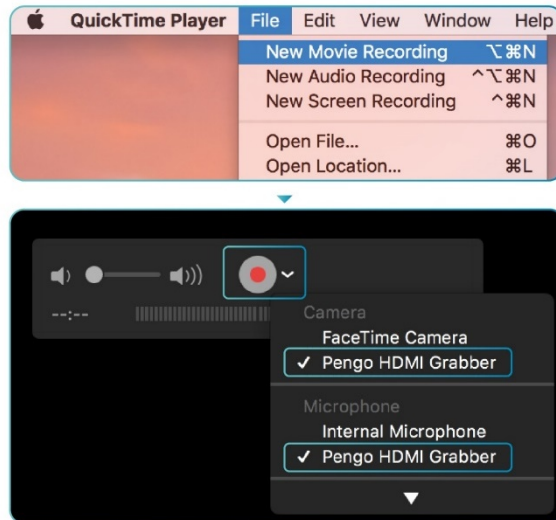


2. QuickTime

2.1 Open QuickTime

2.2 Go to File -> New Movie Recording

2.3 If your display does not appear, next to the record RED button drop down menu, select [Pengo HDMI Grabber]



Note:

- It is recommended to use our USB 3.0 cable.
- Different version will have slightly different interface.
- Make sure your source does not have HDCP, we do not support HDCP.
- Make sure your device is not 1080i. We do not support 1080i. We support 1080p.
- Please contact us if you have any issues.
- We reserve the right to make any updates without prior notice.
- Please register your Pengo product at: www.pengohome.com/register

- END -