4K HDMI GRABBER
HDMI to USB 3.0 Video Capture Box

User manual (v.10)
- English -
A. Introduction ................................................................. 03

B. Features ......................................................................... 03

C. Inside the box ............................................................... 03

D. Specifications ............................................................... 04

E. System requirements .................................................... 04

F. Installation ...................................................................... 05

G. Operating Instructions (Windows with PotPlayer) .......... 05
   1. PotPlayer .................................................................... 05

H. Operating Instructions (Mac OS with VLC or QuickTime) .. 08
   1. VLC ........................................................................... 08
      2. QuickTime .............................................................. 08
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.

![Pengo 4K HDMI Grabber](image)

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

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>4K UHD HDMI to USB 3.0 Video Grabber</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT INTERFACE</td>
<td>1 x HDMI type A 2.0 1 x 3.5mm audio input</td>
</tr>
<tr>
<td>INPUT RESOLUTION</td>
<td>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</td>
</tr>
<tr>
<td>HDMI VIDEO SAMPLING</td>
<td>4:4:4 format</td>
</tr>
<tr>
<td>OUTPUT INTERFACE</td>
<td>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</td>
</tr>
<tr>
<td>OUTPUT RESOLUTION</td>
<td>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</td>
</tr>
<tr>
<td>UVC COLOR SPACE</td>
<td>YUY2 (4:2:2), RGB 4:4:4 (MJPEG)</td>
</tr>
<tr>
<td>AUDIO INPUT</td>
<td>HDMI, 16-bit PCM encoded audio at 44.1kHz, 48kHz, 96kHz and 192kHz sampling rates Stereo microphone input</td>
</tr>
<tr>
<td>AUDIO OUTPUT</td>
<td>16-bit PCM encoded audio at 48kHz sampling rates Stereo headphone output</td>
</tr>
<tr>
<td>OS SUPPORT</td>
<td>Microsoft Windows (8 and above) Mac OS (10.13 and above)</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>Operating temperature 0 ~ 45°C Operating humidity 20 ~ 90% Storage temperature -20 ~ 60°C</td>
</tr>
<tr>
<td>DIMENSION</td>
<td>65 x 85.6 x 15.2 mm (W x L x H)</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>91G</td>
</tr>
</tbody>
</table>

E. System requirements

CPU: i5 Dual Core 2.8GHz or higher
RAM: 4GB or higher
OS: Microsoft Windows (8 and above) Mac OS (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/](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](https://www.videolan.org/index.html)

   ![VLC media player screenshot]

   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

   ![VLC capture device settings]

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](http://www.pengohome.com/register)