



User Manual

HDMI to USB 3.0 Video Capture Dongle

Model PT-C-HDUSB

Designed in Germany

Version V1.0

Preface

Read this user manual carefully before using this product. Pictures shown in this manual are for reference only. Different model layouts and specifications are subject to the physical product.

This manual is for operation instructions only, not for any maintenance usage.

In the constant effort to improve our product, we reserve the right to make changes in functions or parameters without prior notice or obligation.

Trademarks

Product model and logo are trademarks. Any other trademarks mentioned in this manual are acknowledged as the properties of the trademark owner. No part of this publication may be copied or reproduced without the prior written consent.

FCC Statement

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacturer would void the user's authority to operate the equipment.



REACH | 1907/2006/EU

ROHS | 2011/65/EU

PureLink hereby declares that this product PureTools PT-C-HDUSB complies with Directives 1907/2006/EU und 2011/65/EU.

EMC / LVD (Electro Magnetic Compatibility / Low Voltage Directive)

PureLink GmbH hereby declares that this product PureTools PT-C-HDUSB complies with Directives 2014/30/EU and 2014/35/EU. The full text of the EU Declaration of Conformity is available at the following Internet address:

http://www.purelink.de/ce/4251364738696_CE.pdf



SAFETY PRECAUTIONS

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment.
 - Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
 - Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
 - Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
 - Refer all servicing to qualified service personnel.
 - To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
 - Do not put any heavy items on the extension cable in case of extrusion.
 - Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
 - Install the device in a place with fine ventilation to avoid damage caused by overheat.
 - Keep the module away from liquids.
 - Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
 - Do not twist or pull by force ends of the optical cable. It can cause malfunction.
 - Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
 - Unplug the power cord when left unused for a long period of time.
 - Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.
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1. Product Introduction

1.1 Introduction

This HDMI to USB video capture dongle has 1 HDMI INPUT, 1 HDMI LOOP OUT and 1 USB OUTPUT. The HDMI INPUT supports resolutions up to 4K60. The USB OUTPUT can be used to power the device and capture videos with resolution up to 1080P60. It can be widely used in video conference, multi-media broadcasting and other HDMI video capturing occasions.

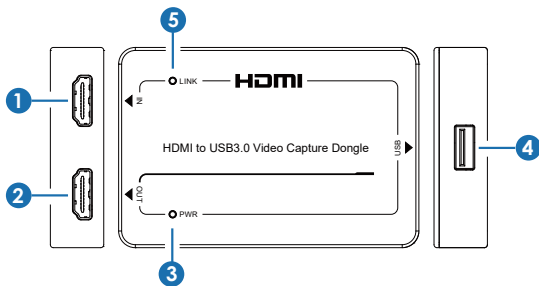
1.2 Features

- HDMI 2.0b, HDCP 2.2, USB 2.0 and USB 3.0 compliant
- 18Gbps HDMI video bandwidth, 5Gbps USB video bandwidth
- HDMI INPUT video resolution reaches up to 4K2K@60Hz; USB OUTPUT video resolution has a range between 480i to 1080p60Hz
- Support 4K2K@60Hz downscaling to 1080p60Hz
- Support 4K60 4:4:4 HDMI loop out
- Operative in Windows, Linux and OS X
- USB transmission speed up to 300~350Mb/s
- Compatible with VLC, OBS, XSPLIT, AMCAP and other video capturing software.
- Compact in design, plug and play

1.3 Package List

- 1 × HDMI to USB Video Capture Dongle
- 1 × USB 3.0 Type-A Cable (0.5m, Blue)
- 1 × User Manual

2. Panel Description



No.	Name	Function Description
1	HDMI IN	HDMI input port, connected to a source device via the HDMI cable.
2	HDMI OUT	HDMI loop out port, connected to a display device such as TV via the HDMI cable.
3	PWR LED (Green)	The power LED lights in green when the device is powered on.
4	USB	USB type-A output port, connected to a PC with the USB cable.
5	LINK LED (Green)	The link LED lights in green when the USB port outputs signals to the connected PC.

3. Specification

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	HDMI: 18 Gbps; USB: 5Gbps
Video Resolution	Up to 4K2K@60Hz 4:4:4
Video Compression Standards	Video will be in YUV2 with no compression if output via a USB 3.0 port; Video will be compressed in MJPEG if output via a USB 2.0 port
USB OUTPUT Resolution	Support 4K24/25/30/50/60 INPUT down scaling to 1080P OUTPUT; For resolutions lower than 1080P, INPUT keeps the same as OUTPUT
Color Depth	8/10/12-bit
Color Space	RGB, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
HDMI Audio Format	PCM 2.0
USB Audio Format	PCM 2.0
USB Version	USB 3.2 GEN 1
ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)
Connection	
Input	1 × HDMI Type A [19-pin female]
Outputs	1 × HDMI Type A [19-pin female] 1 × USB Type A [female]

Mechanical	
Housing	Plastic Enclosure
Color	Black
Dimensions	90mm(W) × 60mm(D) × 16mm(H)
Weight	47g
Power Supply	USB 5V / 900mA
Power Consumption	3.5W (Max)
Operation Temperature	32 ~ 104°F / 0 ~ 40°C
Storage Temperature	-4 ~ 140°F / -20 ~ 60°C
Relative Humidity	20 ~ 90% RH (no condensation)

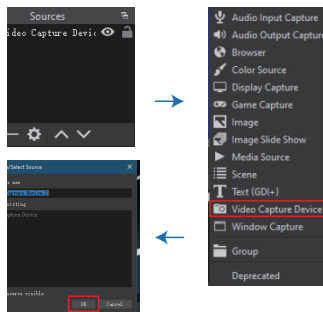
4. OBS Operation Instructions

The OBS (Open Broadcaster Software) Studio software needs to be installed in your PC at first before video capture. After device connection, you can follow steps as below to process the OBS settings.

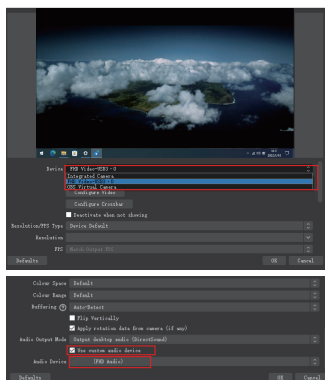
Step 1: Download the “OBS” application to your computer at first.

Step 2: Double-click the OBS shortcut to open the application.

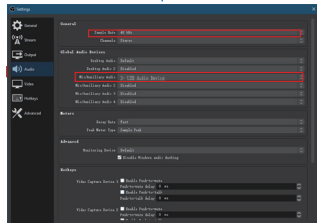
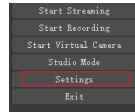
Step 3: Click “+” at the right-bottom corner on the Source window, select “Video Capture Device”, and then click “OK” to select a source video as shown in figure.



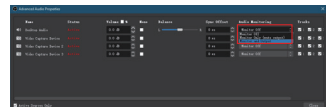
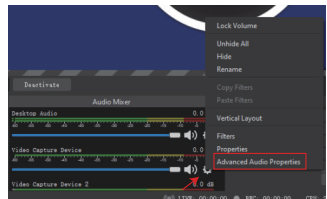
Step 4: Select “FHD Video-USB3.0” from the Device dropdown menu at the beginning of the pop-up Properties page, then check “Use custom audio device” and choose “FHD Audio” at the bottom of the page. After that, click “OK” to save the properties settings.



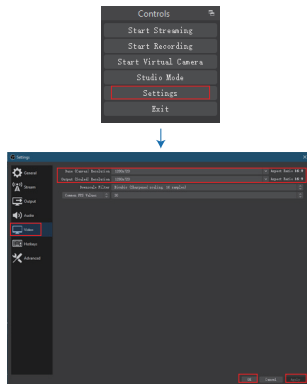
Step 5: On entering the setting page, click the “Audio” tab, then choose “48Khz” as the Sample Rate and “USB3.0 Capture Digital Audio” for “Mic/Auxiliary Audio Device”. After that, click “Apply” and “OK” in turn to save the audio settings.



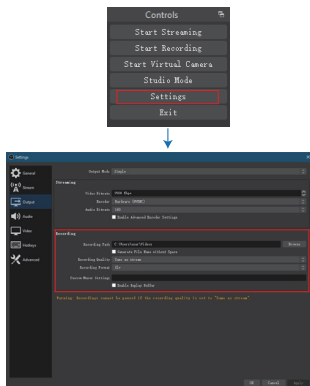
Step 6: Click the setting icon on the Audio Mixer window, and select “Advanced Audio Properties”. When a box pops out, you can choose “Monitor and Output” and click “Close” to exit out of the advanced audio properties settings.



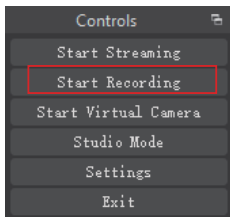
Step 7: On entering the setting page, click the “Video” tab, then you can set “Base Resolution” and “OUTPUT Resolution”. After that, click “Apply” and “OK” in turn to save the Video settings.



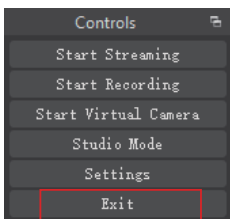
Step 8: On entering the setting page, click the “OUTPUT” tab, then select a “Recording Path”, set “Recording Quality”, “Recording Format” etc. After that, click “Apply” and “OK” in turn to save the Output settings.



Step 9: When all settings have been completed, click “Start Recording” to start video capture. Clicking it again, the video capture will be stopped.



Step 10: When the video is captured, click “Exit” and the software will be closed.

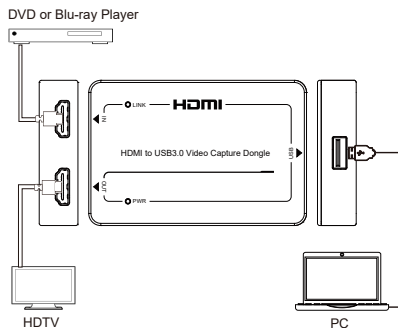


5. System Diagram

Usage Precaution

- Make sure all components and accessories included before installation.
- System should be installed in a clean environment with proper temperature and humidity.
- All of the power switches, plugs, sockets, and power cords should be insulated and safe.
- All devices should be connected before power on.

The following diagrams illustrate typical input and output connections that can be utilized with this device:



The terms HDMI and HDMI High-Definition Multimedia interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

6. After-Sales Service

If there appear some problems when running the product, please check and deal with the problems referring to this user manual. Any transport costs are borne by the users during the warranty.

1) Product Limited Warranty: This product will be free from defects in materials and workmanship for three years (The purchase invoice shall prevail).

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

2) What the warranty does not cover (servicing available for a fee):

- Warranty expiration.
- Factory applied serial number has been altered or removed from the product.
- Damage, deterioration or malfunction caused by:
 - Normal wear and tear.
 - Use of supplies or parts not meeting our specifications.
 - No certificate or invoice as the proof of warranty.
 - The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
 - Damage caused by force majeure.
 - Servicing not authorized by distributor.
 - Any other causes which does not relate to a product defect.
 - Delivery, installation or labor charges for installation or setup of the product.

3) Technical Support: For any questions or problems, contact your distributor or reseller and tell them the respective product name and version, the detailed failure situation as well as the formation of the cases.

Asking for Assistance

Technical Support:

Phone: +49 5971 800299 - 0

Fax: +49 5971 800299 – 99

Technical Support Hours:

8:30 AM to 5:00 PM Monday thru Thursday

8:30 AM to 4:00 PM Friday

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