



USB 3.0 HD Video Capture Device

Model 202066



User Manual

- Download the user manual at:
www.cablematters.com/dl/202066
- Locate troubleshooting information at:
kb.cablematters.com (search for 202066)

support@cablematters.com

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1. INTRODUCTION

1.1 Introduction

Thank you for your purchase from Cable Matters® Inc., the 'Reliable Connectivity' company. This User Manual provides an overview of the features and installation of your new

USB 3.0 HD Video Capture Device

Please read these instructions carefully before connecting, operating or configuring this product. Please keep this manual for future reference.

Contact support@cablematters.com for questions or product support.

1.2 Copyright and Trademarks

Cable Matters is a registered trademark or trademark of Cable Matters Inc. All rights reserved. All other trademarks are the property of their respective owners.

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. USB Type-C™ and USB-C™ are trademarks of USB Implementers Forum. macOS® is a trademark of Apple Inc., registered in the U.S. and other countries. Windows® is a registered trademark of Microsoft Corporation in the U.S. and other countries.

1.3 FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device must not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

2. PRODUCT OVERVIEW

2.1 Package Contents

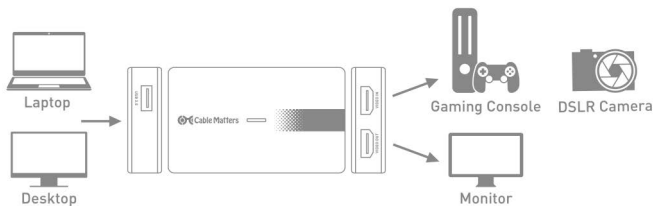
Please check that the following items are contained in the package:

- USB 3.0 HD Video Capture Device
- USB-A 3.0 Male to Male Cable
- USB-C™ to USB-A Male to Female Adapter
- User Manual

Note: HDMI cables are not included

2.2 Product Description

The Cable Matters USB 3.0 HD Video Capture Device provides a simple way to capture live video and audio. Live-stream gaming video to Twitch or a podcast to YouTube. Connect a DSLR camera or gaming console with HDMI. Reduce the load on your video graphics card with low-latency HDMI pass-through. Connect an external display to view the source content while streaming or recording.



2.3 Product Features

- Windows®, macOS® and Linux compatible
- Capture video and stream from gaming consoles such as the Nintendo® Switch, Xbox® One or PlayStation® 4
- Utilizes USB drivers (USB Video Class) embedded in Windows, Linux and macOS instead of proprietary device drivers
- Compatible with 3rd party software such as OBS, StreamLabs OBS, VLC Media Player and XSplit for video and audio capture
- Offers low latency with HDMI pass-through and reduces CPU utilization on your computer
- Compact and portable size for video capture and streaming with a laptop on the road
- Video resolution support up to full HD 1920x1080 @ 60Hz (see video resolution list on page 4)
- Audio support for 2 Channel PCM @ 48KHz
- Connect multiple video capture devices to a single computer

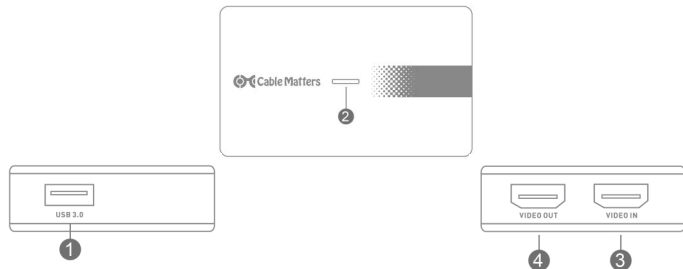
3. CONNECTION AND OPERATION

3.1 Installation Checklist

Please review this information before installing the HD Video Capture Device

- ✓ OS Requirements: Windows 7 SP1 and up, macOS 10.9 and up, Linux kernel 3.9 and up
- ✓ Minimum CPU Requirements: Intel core i5 with 4GB RAM
- ✓ 3rd party video capture software such as OBS
- ✓ Recommended maximum total HDMI cable distance is 15 feet
- ✓ Use the included USB cable for the best performance. An active USB 3.0 extension cable can be connected but may decrease the data transfer rate.
- ✓ Connecting a mirrored display to the Video Out port is optional
- ✓ HDCP for viewing protected content is not compatible. A DVD with HDCP protection will not allow recording. Check that HDCP is disabled on a gaming console.

3.2 Panel Connections



1. USB 3.0 port to connect the host computer
2. Green LED power status indicator
3. VIDEO IN port for HDMI source cable
4. VIDEO OUT port for HDMI mirrored display cable

3.3 Installation Steps

1. Connect the included USB cable from the computer to the USB 3.0 port
2. Connect an HDMI cable (sold separately) from the source to the VIDEO IN port
3. Optional: Connect an HDMI cable from a external display to the VIDEO OUT port to mirror the content from the source
4. Configure the audio recording settings from the computer (see page 5)
5. Install and configure compatible 3rd party software

Note: HDCP needs to be disabled on PS4 (Most other gaming platforms are auto-disabled)

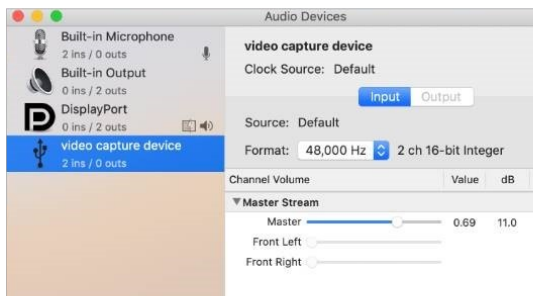
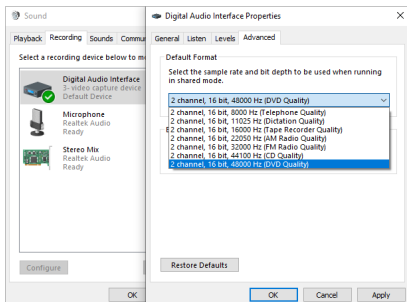
3.4 Supported Video Resolutions

- 720x480@60Hz
- 720x576@50Hz
- 1280x720@50Hz
- 1280x720@60Hz
- 1920x1080@24Hz
- 1920x1080@25Hz
- 1920x1080@30Hz
- 1920x1080i@50Hz
- 1920x1080@50Hz
- 1920x1080i@60Hz
- 1920x1080@60Hz

3.5 Audio Settings in Windows & macOS

Windows Audio Settings:

- 1) Right-click on the speaker icon in the system tray
- 2) Click on *Open Sound settings*
- 3) Look for *Digital Audio Interface* (video capture device) under **Input**
- 4) Click on the *Advanced* tab and select *2 channel, 16 bit, 48000Hz (DVD quality)*
- 5) Select the *Levels* tab to adjust the audio input level, if desired
- 6) Click *Apply* and *OK* to finish



macOS Audio Settings:

Utilities > Audio MIDI setup > video capture device > 48,000Hz

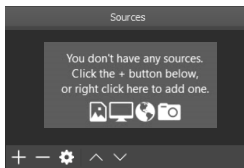
OBS Software Audio Settings:

Preferences > Audio > Sample Rate > 48kHz > OK

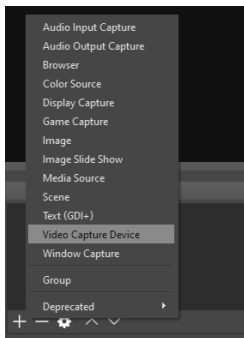
Restart OBS

3.6 OBS Software Connection Notes in Windows

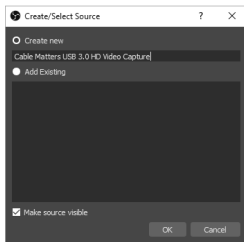
The basic settings listed below show a common configuration to capture video and audio with OBS software. This free open source software is available from obsproject.com.



- 1) Click the + sign in the *Sources* box to add a video capture device



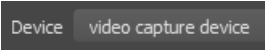
- 2) Select *Video Capture Device*



- 3) Enter a unique name

OBS Software Connection Notes in Windows (continued)

4) Select the *video capture device* in the popup window

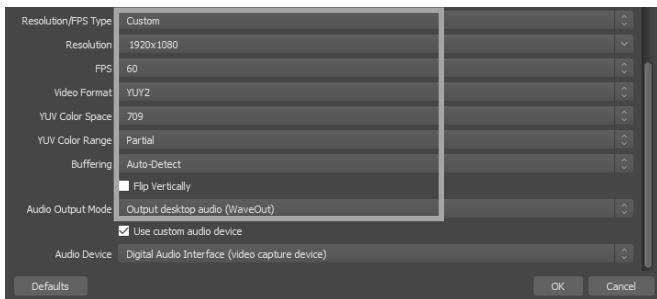


Device video capture device

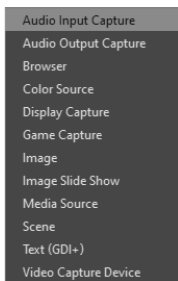
5) Enter the Device Properties

- Resolution/FPS = Custom
- Resolution = Choose a compatible video resolution setting
- FPS = Choose a compatible FPS setting
- Video Format: YUY2 (USB 3.0) or MJEG (USB 2.0)
- Color Space = 709
- Audio Output Mode = Output desktop audio (WaveOut)

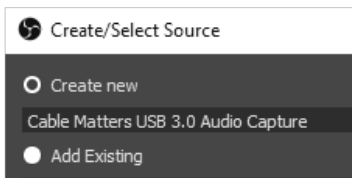
Click OK when finished



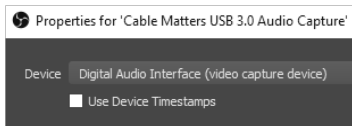
OBS Software Connection Notes in Windows (continued)



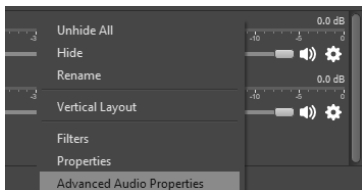
- 6) Click the + sign in the Sources box to add audio capture device and select *Audio Input Capture*



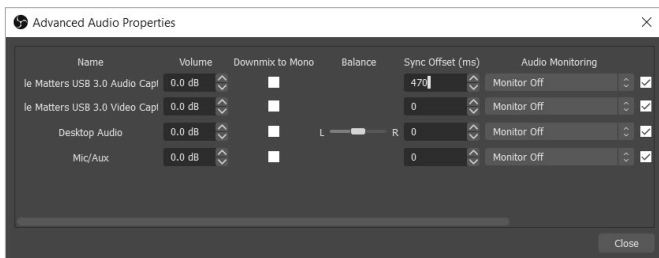
- 7) Enter a unique name



- 8) Select the audio capture device in the pop-up window

OBS Software Connection Notes in Windows (continued)


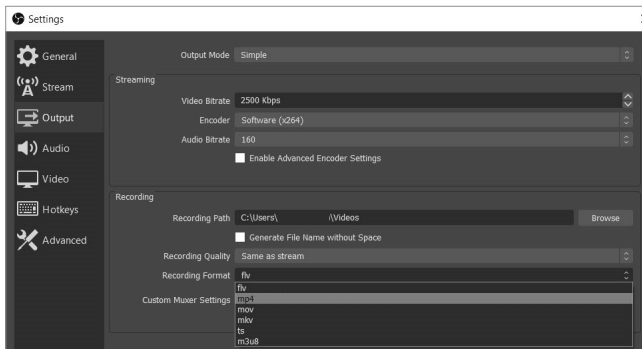
- 9) Right-click on the settings wheel icon for the audio capture device in the *Mixer box*. Select *Advanced Audio Properties*.



- 10) Enter *470* under the *Sync Offset* box for the Audio Capture Device

Note: This is a standard offset sync setting.

OBS Software Connection Notes in Windows (continued)



- 11) Select the *Settings* bar in the *Controls* box for streaming or recording. Check for a compatible *Recording Format*.

OBS Troubleshooting Tips:

- If the device is missing from the OBS menu, click the video device in the Sources menu, deactivate the device, unplug and re-plug the HDMI source cable and reactivate the device.
- Check that HDCP is disabled from the gaming console.

3.7 Troubleshooting Notes

- The power LED should be lit.
- Check that all cables are connected to the correct input and output ports.
- Check that audio settings on the computer are set for 48KHz and try different audio settings in the 3rd party software such as the sync offset.
- Use the included USB cable for the best performance. An active USB 3.0 extension cable can be connected but may decrease the data transfer rate.
- HDCP is not supported for viewing protected content. Disable HDCP on the PlayStation 4.
- Check the audio settings from the source device or computer.
- Unplug the HDMI cable, deactivate the device in the 3rd party software, replug the HDMI cable and activate the device in the software.
- Test each HDMI cable by connecting it with other equipment.
- Recommended maximum total HDMI cable distance is 15 feet.

Contact support@cablematters.com with any questions.

4. TECHNICAL SPECIFICATIONS Model 202066

Video Capture Device Ports	
Host Connector	1x USB-A 3.0 (USB-C to USB-A Adapter included)
HDMI Input (source)	1x HDMI Female
HDMI Output (display)	1x HDMI Female
OS Compatibility	Windows 7 SP1, 8, 8.1, 10, macOS 10.9 or higher, Linux kernel 3.9+
Power	USB bus-powered
Audio/Video Compatibility	
HDCP Compatibility	Not supported
Video Resolution Support	720x480@60Hz, 720x576@50Hz, 1280x720@50Hz, 1280x720@60Hz, 1920x1080@24Hz, 1920x1080@25Hz, 1920x1080@30Hz, 1920x1080i@50Hz, 1920x1080@50Hz, 1920x1080i@60Hz, 1920x1080@60Hz
HDMI Audio In/Out	2 Channel PCM @ 48KHz
Mechanical	
Housing Dimensions	(LxWxH) 3.8 x 2.2 x 0.6 Inches / 2.0 Ounces
Miscellaneous	
Regulatory Compliance	C E, FCC
Warranty	Limited One-Year

Note: Specifications are subject to change without notice

5. WARRANTY AND SUPPORT

5.1 Customer Support and Contact Information

Cable Matters offers lifetime technical support as an integral part of our commitment to provide industry leading solutions.

Contact us with any questions at support@cablematters.com.

5.2 Warranty Information

This product is backed by a limited one-year warranty. The warranty covers parts and labor costs only. Cable Matters does not warrant its products from defects or damages arising from misuse, abuse, or normal wear.

5.3 Limitation of Liability

In no event shall Cable Matters Inc. (including their officers, directors, employees or agents) be liable for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, loss of data, or any pecuniary loss, arising out of, or related to the use of this product exceeding the actual price paid for the product (as allowed by state law).

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(3-Pack) 4K-Rated HDMI® Cables

Model 300019



Mini HDMI® to HDMI Cable

Model 301001

Active USB 3.0 Extension Cable

Model 200010



(2-Pack) Mini HDMI® to HDMI Adapters

Model 113063