



HDMI TO USB 3.0 CAPTURE BOX CAP-2

# **Instruction Manual**

www.datavideo.com

# **Table of Contents**

TA	ABLE C	OF CONTENTS	2
FC		MPLIANCE STATEMENT	4
w	ARNI	NGS AND PRECAUTIONS	4
W	ARRA	NTY	6
		DARD WARRANTY	
DI	ISPOS/	AL	7
1.	PR	ODUCT OVERVIEW	8
	1.1	Features	8
	1.2	System Diagram	9
2.	СО	NNECTIONS AND CONTROL	10
	2.1 2.2	FRONT PANEL Rear Panel	
3.	BA	SIC SETUP	12
	3.1	How to Connect Your CAP-2	12
4.	OB	SS STREAMING SOFTWARE	13
	4.1	How to Install the OBS Streaming Software	13
	4.2	How to Set the Video and Audio of the OBS Streaming Software .	19
5.	FIRM	WARE UPDATE	30
6.	DI	MENSIONS	38
7.	FR	EQUENTLY-ASKED QUESTIONS	39
8.	SP	ECIFICATIONS	45
SE		AND SUPPORT	48

#### **Disclaimer of Product and Services**

The information offered in this instruction manual is intended as a guide only. At all times, Datavideo Technologies will try to give correct, complete and suitable information. However, Datavideo Technologies cannot exclude that some information in this manual, from time to time, may not be correct or may be incomplete. This manual may contain typing errors, omissions or incorrect information. Datavideo Technologies always recommend that you double check the information in this document for accuracy before making any purchase decision or using the product. Datavideo Technologies is not responsible for any omissions or errors, or for any subsequent loss or damage caused by using the information contained within this manual. Further advice on the content of this manual or on the product can be obtained by contacting your local Datavideo Office or dealer.

# **FCC Compliance Statement**

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

# Warnings and Precautions

- 1. Read all of these warnings and save them for later reference.
- 2. Follow all warnings and instructions marked on this unit.
- 3. Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use this unit in or near water.
- 5. Do not place this unit on an unstable cart, stand, or table. The unit may fall, causing serious damage.
- 6. Slots and openings on the cabinet top, back, and bottom are provided for ventilation. To ensure safe and reliable operation of this unit, and to protect it from overheating, do not block or cover these openings. Do not place this unit on a bed, sofa, rug, or similar surface, as the ventilation openings on the bottom of the cabinet will be blocked. This unit should never be placed near or over a heat register or radiator. This unit should not be placed in a built-in installation unless proper ventilation is provided.
- 7. This product should only be operated from the type of power source indicated on the marking label of the AC adapter. If you are not sure of the type of power available, consult your Datavideo dealer or your local power company.
- 8. Do not allow anything to rest on the power cord. Do not locate this unit where the power cord will be walked on, rolled over, or otherwise stressed.
- 9. If an extension cord must be used with this unit, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord's rating.
- 10. Make sure that the total amperes of all the units that are plugged into a single wall outlet do not exceed 15 amperes.
- 11. Never push objects of any kind into this unit through the cabinet ventilation slots, as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind onto or into this unit.
- 12. Except as specifically explained elsewhere in this manual, do not attempt to service this product yourself. Opening or removing covers that are marked "Do Not Remove" may expose you to dangerous voltage points or other risks, and will void your warranty. Refer all service issues to qualified service personnel.
- 13. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:

- a. When the power cord is damaged or frayed;
- b. When liquid has spilled into the unit;
- c. When the product has been exposed to rain or water;
- d. When the product does not operate normally under normal operating conditions. Adjust only those controls that are covered by the operating instructions in this manual; improper adjustment of other controls may result in damage to the unit and may often require extensive work by a qualified technician to restore the unit to normal operation;
- e. When the product has been dropped or the cabinet has been damaged;
- f. When the product exhibits a distinct change in performance, indicating a need for service.

# Warranty

## Standard Warranty

- Datavideo equipment are guaranteed against any manufacturing defects for one year from the date of purchase.
- The original purchase invoice or other documentary evidence should be supplied at the time of any request for repair under warranty.
- The product warranty period begins on the purchase date. If the purchase date is unknown, the product warranty period begins on the thirtieth day after shipment from a Datavideo office.
- All non-Datavideo manufactured products (product without Datavideo logo) have only one year warranty from the date of purchase.
- Damage caused by accident, misuse, unauthorized repairs, sand, grit or water is not covered under warranty.
- Viruses and malware infections on the computer systems are not covered under warranty.
- Any errors that are caused by unauthorized third-party software installations, which are not required by our computer systems, are not covered under warranty.
- All mail or transportation costs including insurance are at the expense of the owner.
- All other claims of any nature are not covered.
- All accessories including headphones, cables, and batteries are not covered under warranty.
- Warranty only valid in the country or region of purchase.
- Your statutory rights are not affected.

#### **Three Year Warranty**

 All Datavideo products purchased after July 1st, 2017 are qualified for a free two years extension to the standard warranty, providing the product is registered with Datavideo within 30 days of purchase.



- Certain parts with limited lifetime expectancy such as LCD panels, DVD drives, Hard Drive, Solid State Drive, SD Card, USB Thumb Drive, Lighting, Camera module, PCIe Card are covered for 1 year.
- The three-year warranty must be registered on Datavideo's official website or with your local Datavideo office or one of its authorized distributors within 30 days of purchase.

# Disposal



### For EU Customers only - WEEE Marking

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of

disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



**CE Marking** is the symbol as shown on the left of this page. The letters "**CE**" are the abbreviation of French phrase "Conformité Européene" which literally means "European Conformity". The term initially used was "EC Mark" and it was officially replaced by "CE

Marking" in the Directive 93/68/EEC in 1993. "CE Marking" is now used in all EU official documents.

## 1. Product Overview

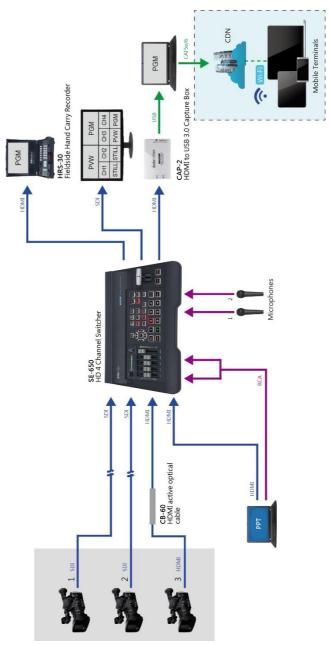
Datavideo CAP-2 is an HDMI to USB 3.0 Capture Box for supporting fast capturing up to 1080p50/60 input video resolution. Moreover, it supports plug & play operation. Datavideo CAP-2 supports many OS platforms. Moreover, it provides AUDIO IN interface for connecting external connected AUDIO IN source. Furthermore, the CAP-2 provides AUDIO SWITCH/AUDIO IN EMBED audio source toggle switch for users to select for different audio source. The embedded audio source or the external connected Audio in source can be used for the audio source of the CAP-2. It gives higher flexibility for CAP-2 compared to general UVC devices.

## 1.1 Features

#### **Big Five Features**

- Supports USB 3.0
- Video Input Interface: HDMI x 1
- Supports up to 1080p60 video streaming through the USB 3.0 interface.
- Supports HDMI 1.4 Protocol Audio and Video Capturing
- Supports Plug & Play Operation with Automatic Video Format Detection Capability.

1.2 System Diagram



# 2. Connections and Control

## 2.1 Front Panel



	Micro USB 3.0 OUT(Second Generation)
	Please connect a micro USB 3.0 Type B to USB 3.0 Type A adapter cable from this interface to the USB 3.0 interface of your laptop or PC.
	Note: Please use the Micro USB 3.0 cable which is bundled
	in the CAP-2.
	USB 3.0 OUT (First Generation)
	Please connect this port to the USB 3.0 interface of your Notebook PC or PC by using a USB 3.0 cable.
	Note: Please use the USB 3.0 cable which is bundled in the CAP-2.
TATAT	AUDIO SWITCH(AUDIO IN/EMBED)
alder	This toggle switch allows users to select their desired audio source for streaming. Pull the toggle switch to the left side
	for selecting the AUDIO IN external connected audio source
	to the the streaming audio source. Pull the toggle switch to the right side for selecting the HDMI IN embedded audio source to be the streaming audio source.

## 2.2 Rear Panel



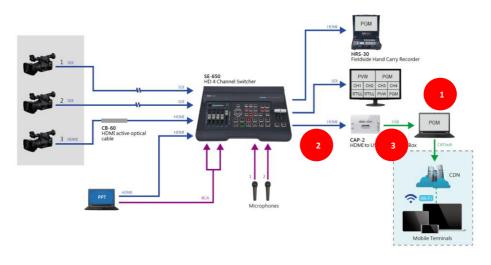
 <b>LED Indicator</b> This is the LED indicator for the input signal.
HDMI IN Please connect this port to an HDMI input source.
AUDIO IN Please connect to an external connected audio source with 3.5mm analog stereo audio plug.

## 3. Basic Setup

This chapter will show users how to connect the CAP-2 HDMI to USB 3.0 Capture Box.

## 3.1 How to Connect Your CAP-2

Please follow following steps for connecting your CAP-2 to an HDMI video source and a Notebook PC.



- 1. Please turn on the power of your Notebook PC.
- 2. Please connect your HDMI video source (Cameras, etc.) to the HDMI interface of the CAP-2 by using an HDMI cable. In this case, the Datavideo SE-650 is used as an example.

3. Please connect from the USB 3.0 OUT interface of the CAP-2 to the USB 3.0 interface of your Notebook PC by using a Micro USB-B to USB-A (2<sup>nd</sup> Generation) or an USB-A to USB-A (1<sup>st</sup> Generation) cable.

# 4. OBS Streaming Software

The Datavideo CAP-2 HDMI to USB 3.0 Capture Box allows users to capture the HDMI input source and then to convert this input source by a USB 3.0 interface to be an input source for the Notebook PC. After that, users can stream the input source to many mainstream streaming platforms such as Youtube and Facebook by using OBS or Xsplit Broadcaster streaming software. This chapter will show you how to install and set the streaming software by using OBS as an example.

Windows OS Platform: For Windows platform user, it is recommended to use the OBS streaming software for streaming. Please download the OBS software from following website and then please install the software.

OBS : <u>https://obsproject.com/</u>

### 4.1 How to Install the OBS Streaming Software

Please follow following steps for installing the OBS streaming software. This chapter take Windows platform as an example. The following example will take OBS Studio 24.0.3 (64bit) version as an example.



1. Please visit the OBS website <u>https://obsproject.com/</u> and then please click the "Windows" button for downloading the OBS software.



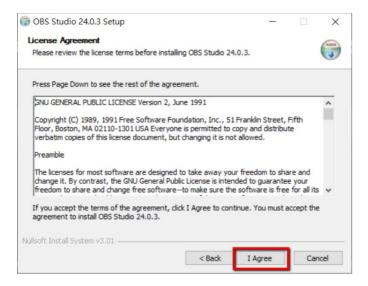
2. Please click the area with the red rectangular for installing the OBS software.

OBS Open Broadcast	er Software		Home Download	Blog Help Forum 
	Thank you for do	ownloading OBS S	Studio!	
	Problems with the download? Try again. Getting Started			
	Ŧ			
	If you are brand new to using OBS please check out the OBS Studio Quickstart Guide. It can get you up and running in 4 easy steps!	The OBS Studio Overview is a more detailed breakdown of the features in OBS Studio for new and veteran users alike.	You can visit the Forums and Community Discord with any questions or issues you have.	
OBS-Studio-24.0exe				全部顯示 )

3. Please press the "Next" button for starting the installation.



#### 4. Please press the "I Agree" button.



### 5. Please press the "Next" button.

💮 OBS Studio 24.0.3 Setup	_		$\times$
Choose Install Location			
Choose the folder in which to install OBS Studio 24.0.3.			J
Setup will install OBS Studio 24.0.3 in the following folder. To install in Browse and select another folder. Click Next to continue.	a differen	t folder,	dick
Destination Folder C:\Program Files\obs-studio	Bro	wse	
Space required: 249.2MB Space available: 17.0GB			
Nullsoft Install System v3.01	xt >	Car	ncel

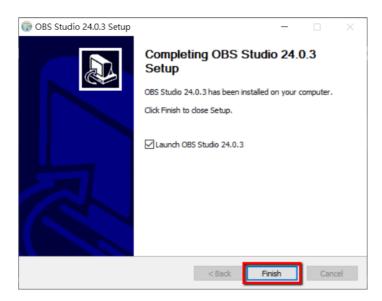
## 6. Please press the "Install" button.

💮 OBS Studio 24.0.3 Setup	_		$\times$
Choose Components Choose which features of OBS Studio 24.0.3 you want to install.			
Check the components you want to install and uncheck the compo install. Click Install to start the installation.	onents you do	on't want	to
Select components to install:	Description Position you over a comp see its desc	ur mouse ponent to	
Space required: 249.2MB			
Nullsoft Install System v3.01	Install	Ca	ncel

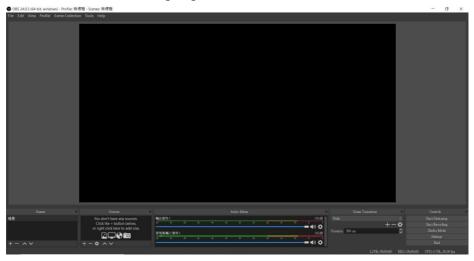
7. Users can see that the installation of the OBS software is started.

💮 OBS Studio 24.0.3 Setup	_		$\times$
Installing Please wait while OBS Studio 24.0.3 is being installed.			
Extract: sr-SP.ini			
Show details			
Nullsoft Install System v3.01	March S	0	a cal
< Back	Next >	Ca	ncel

8. Please press the "Finish" button for completing the installation.



9. After the installation is finished, users can see the main interface of the software which is shown as following diagram.



## 4.2 How to Set the Video and Audio of the OBS Streaming Software

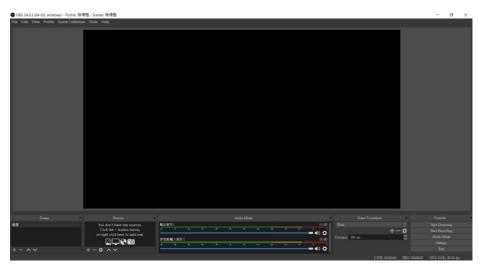
Please follow following steps for setting the video and audio of the OBS streaming software.

## Video Setup

1. At first, please click the OBS icon for opening the OBS software.



2. Users can see the main interface of the OBS software.



3. Please press the "Add" button from the "Source" pane to open the "Source"

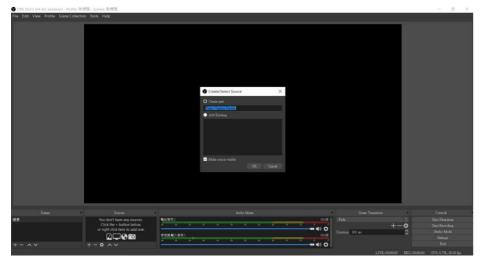
#### menu.

	OBS 24.0.3 (64-bit, windows) - Profile: 無標題 - Scenes: 無標題			- 0 ×
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o	File Edit View Profile Scene Collection Tools Help			
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
48         You don't have any poorder (or dight to be build one) or dight charts build one) + - ∧ ∨         4801         60.60 + - 0         744         30.61 Beneral to be build one) DELECTION of the build one DELECTION o				
Calcular to handbackar constructions of the second secon				
+ - ∧ ∨ → - ∧ ∨ → - ∧ → - → - → → → → → → → → → → → → →	Click the + button below,	The second se		
		FERM3.621		C Studio Mode
			LIVE:00:00:00 P	

Audio Input Capture Audio Output Capture Browser Color Source Display Capture Game Capture Image Image Slide Show Media Source Scene Text (GD1+) VLC Video Source Video Capture Device Window Capture Group 4. Please select "Video Capture Device" option.



5. There is a "Create/Select Source" popup window that will be shown for users to name the video source. Please press the "OK" button. It is recommended that the "Make source visible" checkbox must be checked.



6. There is a "Properties for 'Video Capture Device'" popup window that will be shown. Please select "CAP USB3.0 CAPTURE DEVICE", which is the CAP-2, from the "Device" drop-down menu to be the streaming video capturing device.

9 085 24.0.3 (64-bit, windows) - Profile: 無形	問題 - Scenes: 新標題				- a ×
File Edit View Profile Scene Collection	n Tools Help				
Twe Edit View Profile SseweCollection	n Tools Hep	Aroperties for Yideo Capture Device'	×		
			OK Cusul		
Soname					
189. 	Vadeo Capture Device 🛛 🗢 🧃	Nito Ganat Device		+	<ul> <li>Shet Steenaar</li> <li>Shet Steenaar</li> <li>Shet Recording</li> <li>Stetus Mode</li> <li>Settings</li> </ul>
+- ^ ~			- 4) Q		
				LIVE: 00.00:00	EC: 00:00:00 CPU: 1.3%, 30.00 fpi

7. After the device is selected, users can see the captured screen which is shown as following diagram. Please press the "OK" button.

0

GRB. Server GRB

File Edit View Profile Scene Collection				
		Poperies for Vetor Capture Decoret (* ) Poperies for Vetor Capture Decoret (* ) Power (*		
Sterios	Sources		Scene Transitions	
場務		View Openier 00 dB	Fale :	Start Summing Start Recording
		- () ¢		Stati Recording Studio Mode
		State 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
+ - ^ ~		= 4) Q		
1. A				000 (201-226-10/00.6-

8. Please press the "OK" button and then the following screen will be shown.



#### Audio Setup

Please follow following steps for setting the audio of the OBS streaming software.

• Use the Embeddd Audio of the HDMI video input source.

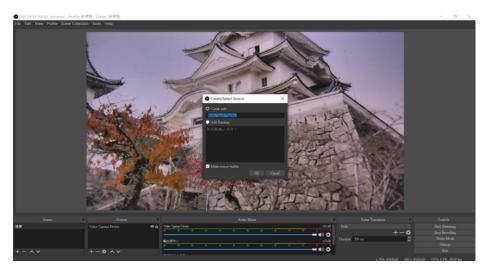
1. Please press the "Add"button + from the "Sources" pane to open the "Source" menu.



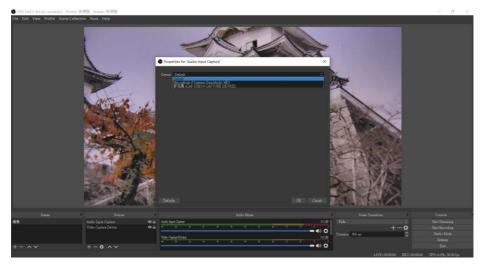
2. Please select "Audio Input Capture" option.

Audio Input Capture	
Audio Output Capture	
Browser	
Color Source	
Display Capture	
Game Capture	
Image	
Image Slide Show	
Media Source	
Scene	
Text (GDI+)	
VLC Video Source	
Video Capture Device	
Window Capture	
Group	
Deprecated	×

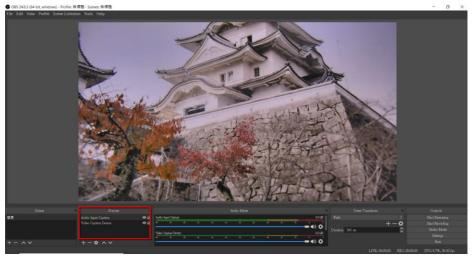
3. There is a "Create/Select Source" popup window that will be shown for users to name the audio source. Please press the "OK" button. It is recommended that the "Make source visible" checkbox must be checked.



4. There is a "Properties for 'Audio Input Capture'" popup window will be shown. Please select "Default", which is the CAP-2, from the "Device" drop-down menu to be the streaming audio capturing device.



5. Users can see that the video and audio sources are successfully set in the OBS main interface which is shown as following diagram.



#### • Use CAP-2 external Connected Audio Source

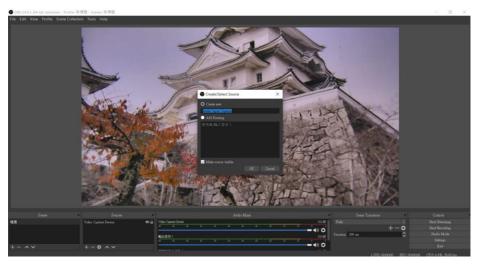
1. Please press the "Add" button from the "Source" pane to open the "Sources" menu.



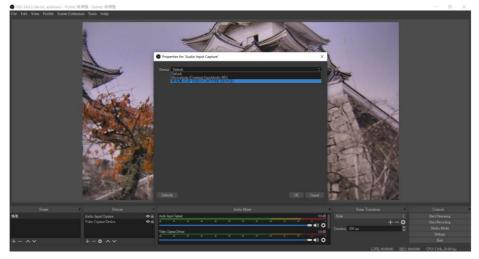
2. Please select "Audio Input Capture" option.

Audio Input Capture	
Audio Output Capture	
Browser	
Color Source	
Display Capture	
Game Capture	
Image	
Image Slide Show	
Media Source	
Scene	
Text (GDI+)	
VLC Video Source	
Video Capture Device	
Window Capture	
Group	
Gloup	
Deprecated •	

3. There is a "Create/Select Source" popup window that will be shown for users to name the audio source. Please press the "OK" button. It is recommended that the "Make source visible" checkbox must be checked.



4. There is a "Properties for 'Audio Input Capture'" popup window will be shown. Please select "麥克風(CAP USB 3.0 CAPTURE DEVICE)", which is the CAP-2, from the "Device" drop-down menu to be the streaming audio capturing device.



5. Users can see that the video and audio sources are successfully set in the OBS main interface which is shown as following diagram.



**Note:** For the detailed operating instructions for the recording and streaming related functions of the OBS software, please refer to the OBS website<u>https://obsproject.com/wiki/</u>

OBS Open Broadcaster Software	Home	Download	Blog	Help	F Cor
Wiki					
OBS Studio is free and open source software for video recording and live streaming. Currently Linux, Mac and Windows	Hom	10			
Builds are available.	Guid	les/Info			
<ul> <li>Official OBS Studio Builds: https://github.com/obsproject/obs-studio/releases</li> </ul>					
Building OBS Studio Manually: Install Instructions		stem Requirements unch Parameters			
If you're looking for any kind of assistance with OBS Studio, the site has a help portal with links to resources and our		ickstart Guide erview Guide			
support channels.		urces Guide			
OBS Studio Help Portal					
		yboard Shortcuts rround Sound Strea			
The community has created a few guides on how to use OBS Studio:		cording			
Quickstart Guide: OBS Studio Quickstart		derstanding the Mi			
Overview Guide: OBS Studio Overview		oubleshooting Guid			
Guide to Sources in Studio: Sources Guide		Known Conflicts Dropped Frames			
Guide to Filters in Studio: Filters Guide		Buffering			
<ul> <li>General Troubleshooting Guides: Troubleshooting Guides</li> </ul>					
<ul> <li>Volume meters guide (v21+): Understanding the Mixer</li> </ul>		Performance and GPU Overload Issu			
Surround sound features: Surround Sound Streaming and Recording		GPU Overload Iss. How to enable or Windows 7			
For Support Questions, Discord, the forum and IRC are available:		How to disable Wi	ndows 10 G		
OBS Studio Forum					

## 5. Firmware Update

Please follow following steps for updating the firmware for CP-2.

#### Requirements

- a) CAP-2 x 1
- b) Notebook PC x 1
- c) USB 3.0 Cable x 1 (Please use the cable which is bundled with the CAP-2)
- d) Application Software: UVC V1.3



- e) Latest Firmware
  - CAP-2\_Main\_Vx.x.bin
  - CAP-2\_Capture\_Vx.x.bin

#### System Diagram



Please follow following steps for updating the CAP-2 firmware.

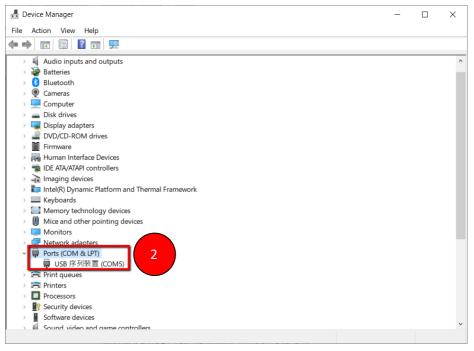
#### **Firmware Update Procedure**

#### • Main Firmware Update

1. Please connect an USB 3.0 cable from CAP-2 to your laptop.

## 2. Users can see the connected CAP-2 from the "Device Manager" of the Windows

OS.



3. Please double-click to open the CAP-2 application software "UVC V1.3".



2020/6/11 下午 02:10 2020/6/9 下午 07:30 2020/4/22 下午 02:11

- 4. Please select the correct COM port.
- 5. Please click the "Read" button.
- 6. Please click the "Main Updated" button.



7. Please press the "Connect" button.

Firmware Updated	_		$\times$
Status Connect Disconnected P			
7 Load File Name:			
		Start	1
Firmware Updated	_		×
Status Stop check Waiting for device connection Part No.			
Load File Name: File not load.		Start	

8. Please re-plug the USB cable and then please press the "Load" button to load the "CAP-2\_Main\_VX.X.bin" file.

Firmware Updated		- 0
Status Disconnected Connecto Part No. NUC1254 8 Load	APROM: 128K, Data: 0K Fw/Ver: 0x31	
	File not load.	

# CAP-2\_Main\_V1.7.bin

9. Please press the "Start" button and then please wait until the progress bar reaches 100%, the firmware update procedure is finished. After the "Programming flash,OK!" pop-up window is shown, please press the "OK" button.

Status Disconnected Co	onnected			
Part No. NUC126LE	4AE	APROM: 128K, Data: 0K FW Ver: 0x31		
Load Fi	le Name:	C:\Users\USER\Desktop\SW_	CAP-2\SW_CAP-2_Main1.6\ 9	
		size: 65.4K Bytes, checksum: 78	02	
			Start	
Firmware Updat	ed			
Firmware Updat	ed		NuvolSP X	
Firmware Updat Status	ed			
Status	ed Connected		NuvolSP X Programming flash, OK	
Status	Connected	APROM: 128K, Data: 0K FW Ver, 0x31		
Status Disconnected Part No. NUC126	Connected	FW Ver: 0x31	Programming flash, OKI	AP-2
Status Disconnected Part No. NUC126	Connected LE 4AE	FW Ver: 0x31	Programming flash, OKI	AP-2
Status Disconnected Part No. NUC126	Connected LE 4AE	FW Ver: 0x31 C:\Users\USER\Desktop\S\	Programming flash, OKI	AP-2

10. After the firmware update procedure is finished, users can see the latest firmware version No. which is shown as following diagram.

UVC V1.3	×
	COM5 - Read
Firmware Version(Ma Firmware Version(Ca	tin): v1.7 pture): v1.3
Main Updated	Capture Updated
	Video.com

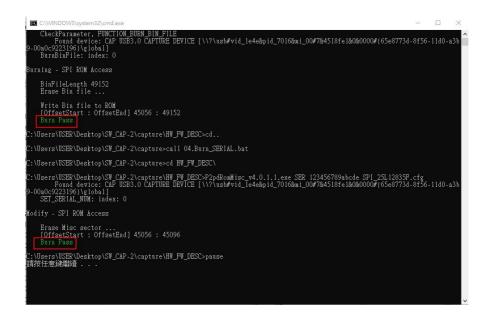
#### • Capture Firmware Update

Please follow following steps for updating the Capture firmware. 1. Please re-plug the USB 3.0 cable.

- 2. Please launch the "UVC" software.
- 3. Please select correct COM port.
- 4. "Please press the "Capture Updated" button.



#### 5. Please wait until the green sentence "Burn Pass" is shown.

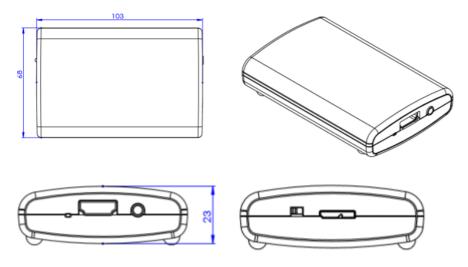


6. The firmware update procedure for the Capture function is finished.

7. After the firmware update procedure is finished, users can check the Capture firmware version which is shown as following diagram.



# 6. Dimensions



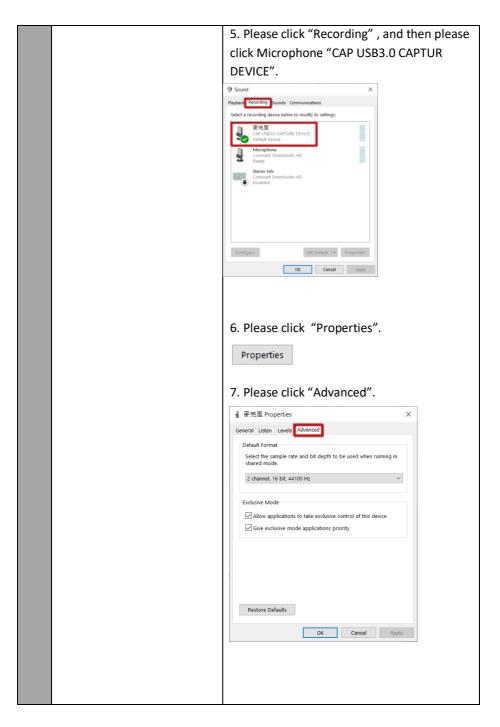
Unit: mm

# 7. Frequently-Asked Questions

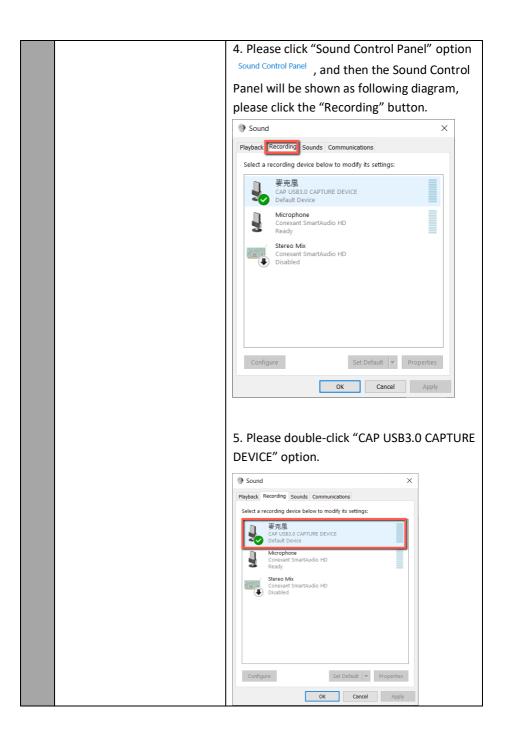
This section describes problems that you may encounter while using the CAP-2. If you have questions, please refer to related sections and follow all the suggested solutions. If problem still exists, please contact your distributor or the service center.

No.	Problems	Solutions
1.	Why the CAP-2 HDMI to USB 3.0 Capture Box can not be detected?	Please make sure that the OS systemof your computer is qualified for the CAP-2 application. Please refer to the OS versions which are listed in the Specifications. Moreover, please make sure that the USB 3.0 connector of your Laptop can supply up to 900mA current.
2	Why the USB 3.0 Cable cannot be detected?	Please use the USB 3.0 cable which is supplied by Datavideo.

3	If there is no audio, how to	Please follow following steps for confirming
3	check whether the audio	
		the audio settings of the OS (For Windows
	setting of the OS is 48KHz or	10)
	not?	
		1. Please search "Settings".
		₽ Settings
		2. Please select "System".
		System
		Display, sound, notifications, power
		3. Please click "Sound" button.
		<b>小</b> 》 Sound
		4. Please click the "Sound Control Panel" which is located at the top-right side.



		8. Users can check the recording sampling
		rate of the CAP-2 external connected
		microphone. Moreover, users can select
		the sampling rate from the drop-down
		menu.
		2 channel, 16 bit, 44100 Hz 🗸 🗸
		2 channel, 16 bit, 48000 Hz (DVD Quality)
		2 channel, 16 bit, 44100 Hz
4	How to solve the issue that	When the audio level is too low, please
	the Audio level is too low?	confirm that whether the audio level setting
		of your PC is 100 or not. Please follow
		following steps for confirming the audio
		level.
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
		1. Please click "Settings" 🔅 button from
		1. Please click "Settings" button from the Start Menu of the Windows OS (Take
		the Start Menu of the Windows OS (Take
		the Start Menu of the Windows OS (Take Windows 10 as an example).
		the Start Menu of the Windows OS (Take Windows 10 as an example).
		<ul> <li>the Start Menu of the Windows OS (Take Windows 10 as an example).</li> <li>2. Please click "System" System</li> </ul>
		the Start Menu of the Windows OS (Take Windows 10 as an example).
		<ul> <li>the Start Menu of the Windows OS (Take Windows 10 as an example).</li> <li>2. Please click "System" System</li> </ul>
		<ul> <li>the Start Menu of the Windows OS (Take Windows 10 as an example).</li> <li>2. Please click "System" System</li> </ul>
		<ul> <li>the Start Menu of the Windows OS (Take Windows 10 as an example).</li> <li>2. Please click "System" System</li> </ul>
		<ul> <li>the Start Menu of the Windows OS (Take Windows 10 as an example).</li> <li>2. Please click "System" System</li> </ul>
		<ul> <li>the Start Menu of the Windows OS (Take Windows 10 as an example).</li> <li>2. Please click "System" System</li> </ul>
		<ul> <li>the Start Menu of the Windows OS (Take Windows 10 as an example).</li> <li>2. Please click "System" System</li> </ul>



6. Please click the "Levels" button	and then
adjust the sound level to 100 by the	ne slider.
· · · · · · · · · · · · · · · · · · ·	
曼 麥克風 Properties	×
General Listen Levels Advanced	
UAC USB3.0 CAPTURE DEVICE	
OK Cancel A	pply

# 8. Specifications

Interface		
Video Input	• HDMI x 1	
Video Output	• USB 3.0 x1	
Input Video Bandwidth	• 150MHz (pixel clock rate)	
Output Video Bandwidth	Up to 350Mbps (USB)	
Supported Input VideoFormats	1920 x 1080p           60/59.94/50/30/29.97/25/24/23.976           1920 x 1080i 60/59.94/50           1680 x 1050p 60           1600 x 1200p 60           1440 x 900p 75/60           1366 x 768p 60           1360 x 768p 60           1280 x 1024p 75/60           1280 x 720p 60/59.94/50           1024 x 768p 75/60           800 x 600p 75/60           720 x 576p 50           720 x 480p 60           60           60           60           720 x 480p 60           60           720 x 480p 60           640 x 480p 75/60	
Supported Output Video Formats	1920 x 1080p 60/50/30/25/24 1680 x 1068p 60 1440 x 1080p 60 1440 x 896p 60 1360 x 768p 60 1280 x 768p 60 1280 x 720p 60/50 1024 x 768p 60 960 x 536p 60 848 x 480p 60 768 x 576p 60 720 x 480p 60/50 640 x 480p 60 640 x 360p 60	
Audio Input	HDMI Embedded Audio & AUDIO IN Stereo	

	2-Channel, 44.1KHz and 48KHz sample rate	
Audio Sampling	embedded in, up to 24-bit PCM, fixed 48KHz	
	output	
Captured Video Format	YUY2 (USB3.0), MJPG (USB2.0/3.0)	
Firmware Update	Via USB	
	Others	
Software Compatibility	<ul> <li>Windows OS: OBS (Open Broadcast Software), Amcap, Google Plus Hangouts, Skype, VLC, Xsplit Broadcaster, Zoom.us</li> <li>Mac OS X : OBS, Quicktime player, VLC,</li> </ul>	
	Facetime     Linux OS: VLC, OBS	
Power Supply	Via USB	
Power Consumption	2W	
Operating Temperature	0~40°C (32~104°F)	
Storage Temperature	-20~60°C (-4~140°F)	
Humidity	20~90% RH (Non-Condensing)	
Mnimum System Requirements	<ul> <li>Windows® 7(SP1) / Windows 10 / Windows 8.1 / Windows 7 (x86, x64)</li> <li>Note: Driver is needed for following hardware, Windows 7 OS MAC OS X (10.13 or above)/The hardware which is made after 2012. **USB3.0 needs at least 900mA power supply. So, the notebook PC must supply at least 900mA power to the UVC capture box.</li> <li>Linux Ubuntu 14.04 PC: Intel® CoreTM i5- 4440 3.10GHz + NVIDIA® GeForce® GTX 660 or higher</li> <li>Notebook PC: Intel® Core i7-4810MQ + NVIDIA GeForce GTX 870M or higher, 4GB RAM or higher</li> </ul>	
Dimensions	105 (L) x 68 (D) x 23 (H) mm	
Weight	0.07KG	

### Note

### Service & Support

It is our goal to make your products ownership a satisfying experience. Our supporting staff is available to assist you in setting up and operating your system. Please refer to our web site www.datavideo.com for answers to common questions, support requests or contact your local office below.



Please visit our website for latest manual update. <u>https://www.datavideo.com/product/CAP-2</u>





@DatavideoUSA
 @DatavideoEMEA
 @DatavideoEMEA
 @DatavideoTaiwan
 @DatavideoLatam
 @DatavideoAsia
 @DatavideoBrasil



@Datavideo @Datavideo\_EMEA @Datavideo\_Taiwan



@DatavideoUSA @DVTWDVCN



@DatavideoUSA @DatavideoEurope

All the trademarks are the properties of their respective owners. Datavideo Technologies Co., Ltd. All rights reserved 2020