

All-In-One Multi-Format USB 3.0 Video Capture Device



Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.



Table of Contents

1. Introduction	2
2. Features	2
3. Package Contents	3
4. Specifications	3
5. Operation Controls and Functions	4
6. Software instruction	5
7. Device source logic	8
8. Application Example	9

1. Introduction

This product has a superior performance, superior compatibility, easy to carry, simple installation and many other features. It can capture HDMI, DVI (VGA, YPbPr, AV) and SDI input, having a video resolution up to 1920×1200 . It is compatible with Windows, Linux, Mac OS X operating systems and USB 3.0 interface. It is compatible with various USB3.0 chipset (Intel, Renesas, ASMedia, Fresco Logic etc.), compatible with PCIe Gen 1.1 x1 USB 3.0 interfaces. The product meets UVC and UAC standard.

Simple plug and play, no driver and setting installation required.

2. Features

- $\stackrel{\scriptstyle <}{\sim}$ Supports AV, YPbPr, VGA, DVI, HDMI and SDI video input capture.
- \precsim Supports input interface automatic recognition.
- $\stackrel{\scriptstyle <}{\sim}$ Supports resolution 480i~1920 \times 1200 input format video capture.
- $\stackrel{\scriptstyle <}{\sim}$ Supports AV, YPbPr, VGA and DVI analog stereo audio inputs.
- $\stackrel{\scriptstyle <}{\sim}$ Compatible with Windows, Linux, OS X operating systems.
- \precsim USB 3.0 about transmission rate up to 300~350MB/s.
- $\stackrel{\scriptstyle \wedge}{\sim}$ Compatible with VLC, OBS, XSPLIT and AMCAP etc. PC capture software.
- $\stackrel{\scriptscriptstyle \wedge}{\succ}$ It can automatically detect the input video format, adjust the set output size and frame rate.
- \precsim Plug and play, no drive and setting installation required



3. Package Content

- $\textcircled{1} \times All$ to USB3.0 Video Capture Dongle
- 2 1 \times USB3.0 male to Type-A male Cable
- 3 1 \times YPbPr/AV female to DVI male convert connector
- 4 1 \times VGA female to DVI male convert connector
- (5) 1imes User Manual

4. Specifications

Technical	
Host port	1×USB [USB Type A, USB3.0 – 300~350MB/s]
Input ports	1 imesDVI IN [DVI-I, Attention: This is a common interface, it can
	also connect VGA/YPbPr/ AV source input though converter joint.]
	1×HDMI IN [19-pin female]
	1×SDI IN [BNC]
	1×AUDIO IN [3.5mm Stereo Mini-jack]
HDMI input	480i, 480p, 576i, 576p, 720p50/60, 1080i50/60,
resolution	1080p24/25/30/50/60
SDI input resolution	480i, 576i, 720p50/60, 1080l50/60, 1080P24/25/30/50/60
VGA input resolution	640x480,800x600,1024x768,1280x1024,1400x1050,
	1600x1200
DVI input resolution	720x480i/p60Hz, 720x576i/p50Hz, 1280x720p50Hz,
	1280x720p60Hz, 1920x1080i/p50Hz, 1920x1080i/p60Hz
YPbPr input resolution	480i, 576i, 480p, 576p, 720p50/60, 1080l50/60
AV input resolution	480i, 576i
Output resolution	640×360, 640×480, 720×480, 720×576, 800×600,
	856×480, 960×540, 1024×576, 1024×768, 1280×720,
	1280×1024, 1280×960, 1280×800, 1368×768, 1440×900,
	1600×1200, 1680×1050, 1920×1080, 1920×1200
Frame Rate	25/29.97/30/50/59.94/60fps
Audio and video	UVC (USB video class) and UAC (USB audio class) standard
capture	
Supports OS	Windows 7/8/10, Linux (Kernel version 2.6.38 and
	above), OS X (10.8 and above)
Software compatibility	Windows Media Encoder (Windows), Adobe Flash Media
	Live Encoder (Windows, OS X), Real Producer Plus
	(Windows), VLC (Windows, OS X, Linux), QuickTime
	Broadcaster (OS X), QuickTime Player (OS X), Wirecast (Windows, OS X)



Mechanical	
Housing	Metal Enclosure
Color	White
Dimensions	114mm [W] x 82mm [D] x 22mm [H]
Weight	168g
Power Consumption	3.9W
Operating Temperature	$32 - 104^{\circ}$ F / 0 - 40° C
Storage Temperature	-4 - 140 $^{\circ}$ F / -20 - 60 $^{\circ}$ C
Relative Humidity	20 - 90% RH (no condensation)

5. Operation Controls and Functions



Number	Name	Function description
1	HDMI IN	Connect to the HDMI source device such as a DVD
		player or a Set-top Box with a HDMI cable.
2	DVI-I IN	Connect to the DVI source device such as a DVD
		player or a Set-top Box with a DVI-I cable.
		(Note: This is a common interface, it can also connect
		VGA/YPbPr/AV source input through a signal adapter.)
3	SDI IN	Connect to the SDI source device such as a DVD
		player or a Set-top Box with a SDI cable.
4	USB3.0 Capture out	USB 3.0 output port, connect to PC or NoteBook.
5	AUDIO IN	Analog stereo audio input.
6	Action LED	This LED will illuminate when the device captures video normally.
7	Power LED	This LED will illuminate when the device has been connected to
		PC's or NoteBook's USB port.



6. Software instruction

For example: OBS (Open Broadcaster Software) software, Windows10 system.

1. Install "OBS" application software on the computer.

2. Double click "OBS Studio" shortcut to open the application.

3. Click the "+", you can see a up-down menu and select "Video Capture Device", and then click "OK" button.

Sources		Audio Input Capture Audio Output Capture BrowserSource		Select Sour ? ×
	S	Color Source Display Capture Game Capture Image		Create new <u>Video Capture Device</u> Add Existing
	[Image Slide Show Media Source Scene Text (GDI+) Video Capture Device		
+-* ^~	→ ·	Window Capture Deprecated	\rightarrow	OK Cancel

4. In the Device option box to select "USB3.0 Capture Video", at the buttom of the box to option for "Use custom audio device", and select "USB3.0 Capture Audio". Then click "OK" button.



5. In the Setting page, you can select "Audio" option. In the page, you need select "Sample Rate" and the "Mic/Auxiliary Audio Device" to select "USB3.0 Capture Audio". Then click "Apply" button and "OK" button.

TEHNICĂ VIZUALĂ ®		24 Evoness SRL Str. Ernest Hemingway Nr. 4 400617 Cluj-Napoca Romania Tel.: +40 744 539702 E-mail: <u>videocapture@tehnicavizuala.</u> Website: <u>www.tehnicavizuala.ro</u>	r <u>o</u>
	Settings		? ×
	Ceneral Stream Output Concentration Concentr	Sample Rate 48khz Channels Steree Desktop Audio Device Disabled Desktop Audio Device Disabled Mic/Auxiliary Audio Device Disabled Video Capture Device Disabled Video Capture Device Disable Push to mute Push to mite delay [0 ms Enable Push to mute Push-to-talk delay [0 ms Enable Push-to-talk Nic/Aux Dable Push-to-talk Push-to-talk delay [0 ms Enable Push-to-talk Push-to-talk delay [0 ms Enable Push-to-talk	* * * * *
Controls			
Start Streaming			
Start Recording			
Studio Mode			
Settings	< >		
Exit	→	OK Cancel	Apply

6. Use your mouse to click the Setting icon, you need select "Advanced Audio Properties" option. In the Advanced Audio Properties page, you need select "Monitor and Output" option. Then click "Close" button.

Mixer		Scene Transitions Co		
Wic/Aux	-1.9 dB	Fade	S Advanced Audio Properties	? ×
Video Capture Device	0, 0 dB	Duration 300ms	Name Volume (%) Downnix to Mono Panning Sync Offset (ms) Aud /ideo Capture Device (100 🗢 🗌 L Image: Capture Device (100 🗢 Image: Capture Device (100 Image	lio Monitoring
	7	ilters Properties Advanced Audio Properties	Mic/Aux 80 C L Monitoro R Monitoro R Monitoro R Kastoro	nd Output ff nd Output nd Output
			<	>
	¥	LIVE: 00:00:	→	Close

7. In the Setting page, you can select "Video" option. In the page, you can select "Base Resolution" and "Output Resolution". Then click "Apply" button and "OK" button.

	Settings ?	×
Controls	Scienced Taxee (Contract) Resolution 1900r1000 Science Dutout (Scaled) Resolution 1000.1000 Output Dutout (Scaled) Resolution 1000.1000 Dutout (Scaled) Resolution 1000.1000 </th <th>> -</th>	> -
Start Streaming	Advance	
Start Recording		
Studio Mode		
Settings		
Exit	< >	Apply



8. Open Setting page, you can select "Output" option. In the page, you can browse recording path for capture video, select the recording quality, select recording format etc. Then click "Apply" button and "OK" button.

U		
	Settings	? ×
	General Output Wode Simple	•
	Streaming Streaming	
	Output Video Bitrate 2500	*
	Audio Bitrate 160	•
	Video Enable Advanced Encoder Settings	
	Recording Recording	
	Advance Recording Path <u>C:\Users\lenovo\Videos</u>	Browse
	Generate File Name without Spa- Recording Quality High Quality, Madium File Size	ce .
Controls	Recording Format mp4	
	Encoder Software (x264)	*
Start Streaming	Custom Muxer Settings	
Start Recording	Hnable Keplay Buffer	
Studio Mode	Warning: Recording with a software encoder at a di stream will require extra CPU usage if you stream s time.	Fferent quality than the and record at the same
Settings	Karning: Recordings saved to MP4 will be anrecover.	able if the file cannot 🗸
Exit		. Cancel Apply

9. When you have finished all settings, you need click the "Start Recording" button to starting video capture. If it has finished, click this button again to stop video capture.



10. When the video capture is over, you can click the "Exit" button to close the software.



Controls	
	Start Streaming
	Start Recording
	Studio Mode
	Settings
	Exit

Attention: The all instruction of the software is only about video capture settings at the above content. You can brower other related settings function.

7. Device source logic

① Insert Interface Logic: The video capture will display the last insert interface signal.

② Pull out Interface Logic: When pull out current interface signal, the signal displays priority order about SDI->HDMI->DVI->VGA(YPBPR/AV).

③ Power on/off Logic: Before power off, displaying the last dispaly signal. After power off, if the signal has pulled out, the signal displays priority order about SDI->HDMI->DVI->VGA(YPBPR/AV).

④ Sound logic: When the HDIM/SDI is input source, the sound is built-in audio. When the DVI/VGA (YPbPr, AV) is input source, the sound is from external analog stereo audio input.



8. Application Example

