

# CUSB-603 HDMI/COMP/SV/CV to USB FullHD Capture



# **Operations** Manual



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## **SAFETY PRECAUTIONS**

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

## **REVISION HISTORY**

VERSION NO.	DATE DD/MM/YY	SUMMARY OF CHANGE
VRO	08/14/13	Preliminary Release
VR1	07/04/14	Add Win7/64 Installation Guide



1. Introduction	1
2. Applications	1
3. Package Contents	1
4. System Requirement	1
5. Features	2
6. Specifications	2
7. Operation Controls and Functions	3
7.1 Front Panel	3
7.2 Rear Panel	4
8. Installation	4
8.1 Hardware Installation	4
8.2 Hardware Installation for Window 7/64 system	7
8.2 Software Installation	.10
9. DVR panel's functions	.14
10. Connection Diagram	.16
11. Acronyms	.17



# **1. INTRODUCTION**

This High Definition capture box supports HDMI 1080p video/ component/SV/CVinput and record to H.264 video format. Its low power consumption and superior video processing capabilities make it ideal for integration into high-end portable and desk top PC products.

# 2. APPLICATIONS

• Displaying HD signal on PC or NB's monitor

# **3. PACKAGE CONTENTS**

- HDMI/COMP/SV/CV to USB Capture Box
- Driver CD Disc
- COMP/SV/CV converter cable
- Operation Manual

## **4. SYSTEM REQUIREMENT**

In order to run the application smoothly, please refer to the following hardware recommendation.

• System Hardware Requirements:

2.4 GHz single core CPU with at least 1GB RAM for optimal performance

• Operating Systems:

Windows 2K SP4

Windows XP Home or Professional 32 bits SP2

Windows Vista 32/64 bits

Windows 7 32/64 bits

• USB Port Extension:

An available USB 2.0 port with USB to mini USB cable



# **5. FEATURES**

- Supports Full HD capture of HDMI/COMP/SV/CV signal to USB
- Built-in H.264/MPEG4-AVC High Definition encoder
- Video input Supports input video timings: 1920 x 1080, 1280 x 720, 576, 720 x 480
- Supports MPEG-4 Advanced Audio Coding (AAC)
- Supports audio sampling frequency of 48 KHz
- Powered via USB bus power with low power consumption

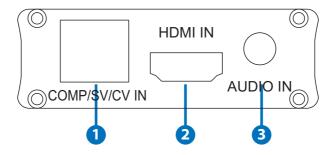
# 6. SPECIFICATIONS

Input port	1 x HDMI
Output port	1 x USB
HDMI Cable Distance	13M
Power Supply	5V/500mA DC USB bus power
Dimensions	65.5 mm (W) × 121.5 mm (D) × 22 mm (H)
Weight	146 g
Chassis Material	Aluminum
Silkscreen Colour	Black
Power Consumption	2.5 W
Operating Temperature	0 °C~40 °C / 32 °F~104 °F
Storage Temperature	-20 °C~60 °C / -4 °F~140 °F
<b>Relative Humidity</b>	20~90 % RH (non-condensing)



# 7. OPERATION CONTROLS AND FUNCTIONS

## 7.1 Front Panel



#### COMP/SV/CV IN

This slot is to connect with Composite video/S-Video/Component video input source equipment such as Set-Top-Box or DVD with 8 pins cable.

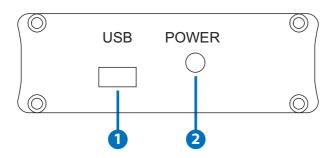
#### 2 HDMI IN

This slot is where you plug your input source equipment with HDMI cable for input signal sending.

#### 3 AUDIO IN

This slot is to connect with audio input source equipment such as DVD with 3.5mm audio cable.





#### 1 USB

This slot is where you plug the mini USB cable and connect it to the PC/NB for data upstream and power.

#### 2 Power LED

This LED will illuminate when the device is connected.

## 8. INSTALLATION

The following sections list the procedures to follow when installing the HDMI/COMP/SV/CV to USB Full HD Capture. Please follow the step accordingly to launch the installation successfully.

## 8.1 Hardware Installation

Connect the HDMI to USB Full HD Capture to NB/PC with mini USB to USB type A cable and the LED will illuminate in green with a Found New Hardware message from NB/PC desk screen.

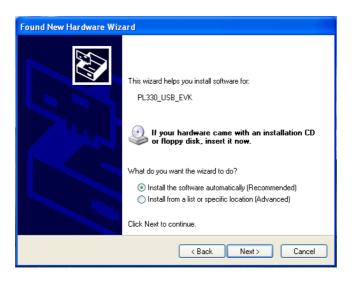




A Wizard dialogue will appear, click" Yes", and click "Next" to continue the installation.

Found New Hardware Wizard				
Welcome to the Found New Hardware Wizard Windows will search for current and updated software looking on your computer, on the hardware installation the Windows Update Web site (with your permission). Read our privacy policy				
	Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and every time I connect a device No, not this time Click Next to continue.			
	< Back Next > Cancel			

Insert the CD driver included in the package now and tick on "Install the software automatically" then click "Next".

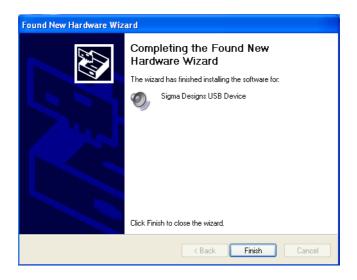




Another dialogue will appear as below. Tick "Search" and click on "Next" to continuing the installation.

Found New Hardware Wizard
Please choose your search and installation options.
<ul> <li>Search for the best driver in these locations.</li> </ul>
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
Include this location in the search:
D:\ Browse
O Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
<pre></pre>

Allowing the Wizard to search and find the proper installation file for a while and click "Finish" to complete the installation.





## 8.2 Hardware Installation for Window 7/64 system

Connect the HDMI to USB Full HD Capture to NB/PC with mini USB to USB type A cable and the LED will illuminate in green. Click on START -> Control -> Device Manager and find "PL330\_USB\_EVK". Select "PL330\_USB\_EVK" and click on the right button to select "Update Driver Software..."

Bevice Manager	and states a	- 100 E	No. No. of Street, Str	- • ×
File Action View Help				
	15			
BD-Win7-test     DD-Win7-test     DD-Win7-test     Disk drives     Disk d	15			
<ul> <li>↓ Storage controllers</li> <li>↓ System devices</li> <li>↓ Universal Serial Bus controllers</li> </ul>	Update Driver Software Disable Uninstall Scan for hardware changes Properties			

A Window dialogue will appear, click on "Browse my computer.."

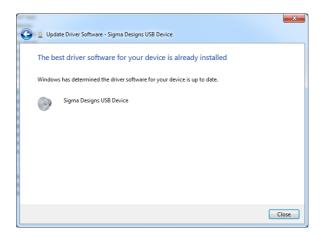
<b>@</b> 1	Update Driver Software - PL330_USB_EVK	×
Но	w do you want to search for driver software?	
•	<ul> <li>Search automatically for updated driver software Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.</li> </ul>	
	<ul> <li>Browse my computer for driver software Locate and install driver software manually.</li> </ul>	
		Cancel



Click on Browse to select the CD driver directory and click on Next to continue.

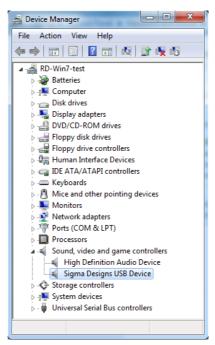
0	Ü Update Driver Software - PL330_USB_EVK	X
	Browse for driver software on your computer	
	Search for driver software in this location:	
	Browse	
	✓ Include subfolders	
	Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver software in the same category as the device.	
	Next Car	ncel

Once the installation is done successfully click on Close to ends the dialogue.





Under Device Manager the device will now rename to Sigma Designs USB Device.





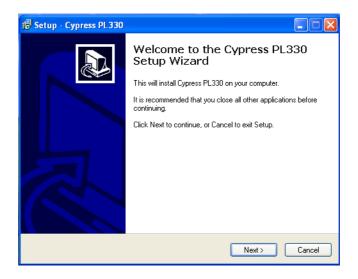
#### 8.2 Software Installation

Download "DivXInstaller.exe" from the website: <u>http://www.divx.com/</u>en/software/divx-plus and click on the "FREE DOWNLOAD" to install it.

Run and click the "AUTORUN.EXE" in your CD root directory and click on PL 330 to install.



The setup dialogue of PL330 will appear, click "Next" to continue the setup.





Allowing the setup to process for few moments and select a destination location for saving the PL 330's folder. Users are free to set the destination location and it is recommended to save it under the easy finding place.

🕞 Setup - Cypress PL330	
Select Destination Location Where should Cypress PL330 be installed?	
Setup will install Cypress PL330 into the following folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
C:\Cypress PL330 Browse	
At least 18.9 MB of free disk space is required.	
K Back Next > Ca	ancel

Click "Install" to confirm the installation.

🔞 Setup - Cypress PL330				
Ready to Install Setup is now ready to begin installing Cypress PL330 on your computer.				
Click Install to continue with the installation, or click Back if you want to review or change any settings.				
Destination location: C:\Cypress PL330				
Start Menu folder: Cypress PL330				
٤				
< Back Install	Cancel			



Click "Finish" again to complete the PL330's installation.



Then click on Exit to finish the installation.



CypressPL330 H264\_Codec Browse Exit

Cypress PL330's icon should appear on the desk.





Double click on the Cypress PL330 to set the configuration of HDMI/ COMP/SV/CV to USB FullHD Capture.



Select CUSB-603 and click on "OK".

😂 TV Card Model Con	figuration			
Model Name	CUSB-603		Ŧ	ОК
Parameters	HKey Company Product	: PL330U : Sigma Designs : PL 330USB	^	Cancel
	Froduct Function Software DsSection DsTVAudio DsTVTuner DsTossBar DsVideoSrc DefVSource	: PL33003B : AV Only : WinAV Encoder CYPL330B : PL330USB : Sigma Designs USB TVAudi : Sigma Designs USB TVIune : Sigma Designs USB Crossh : Sigma Designs USB Device : Nothing		Refresh
	AudioProcessor AgpioStart AgpioEnd	: 0000 1342 : 0000 1342 : 0000 1342 : 0000 0000	~	

Select your AV system of NTSC or PAL, language and Video type then click on "OK".

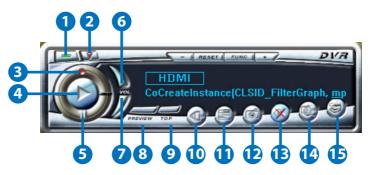
AV Capture Configuration					
VideoFormat	(NTSC)	•	ОК		
Language	English	•	Cancel		
Video	HDMI	•			



A DVR player will appear on the screen.



# 9. DVR PANEL'S FUNCTIONS



## 1 🔤 Power

Click this button to exit the application.

## 2 👿 Minimize

Click this button to minimize the control panel.

## 3 💽 Record

Click this button to save the video file.

## 4 📐 Play

Click this button to play the video file from the recorded file.

5 🌆 Pause

Click this button to pause the video.

## 6 Vol up

Click this button to volume up the sound.

## Vol down

Click this button to volume down the sound.



## **8** PREVIEW

Click this button to turn On/Off the preview screen.

9 TOP

Click this button to display the DVR on top of other applications.

### 10 Source

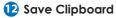
Click this button to select the source input from the HDMI/COMP/ CV/SV input connection.

### 1 Video Setup

Click this button to set the video and audio's parameter. A dialogue will appear as below, please set the parameter accordingly.

Mid	coding Parameters		_	_		X
Video —						
	Source	HDMI				-
	VideoFormat	1920×1080/1920×1080 H264.FHD -				
	Video Bitrate	8.00	-	8.00		MBPS
	Audio Format	AAC				•
File						
🗆 Disk	Reserved			1000	)	MB
🔽 Enable Capture Time Limit				0	: 30	: 0
BMP C:\Cypr	ess PL330\2011(	1902 143	100	ive as . P	IPEG	
			Au	dio		
Play 0	nterface d On The Fly In The Fly Snapshot BMP					
Snow				110	eble E	lass





Click this button to copy the image for other DDE application.

## 13 Mute

Click this button to mute the audio.

### 14 Snapshot BMP

Click this button to save the still image as the BMP or JPEG file.

## 15 Help

Click this button to enable the online help tool.

# **10. CONNECTION DIAGRAM**





# 11. ACRONYMS

ACRONYM	COMPLETE TERM
COMP	Component
CV	Composite Video
DDE	Dynamic Data Exchange
HDMI	High-Definition Multimedia Interface
USB	Universal Serial Bus



MPM-CUSB603