HDMI to USB3.1 Gen 1 Video Capture

User Manual V1.0

1. INTRODUCTION

UC1218 is a professional and easy-to use device to capture HDMI signal over USB3.1Gen1 for graphics capture, live streaming, recording on your laptop, PC. Video resolution supports up to 1080p60Hz. It is compatible with various systems including Windows, Linux, OS X etc. and UVC and UAC compliant. The device is real plug and play, no need driver. UC1218 is your ideal choice for applications like live broadcast, streaming, and professional AV workflows including podcasting, web conferencing, video production and screen capture.
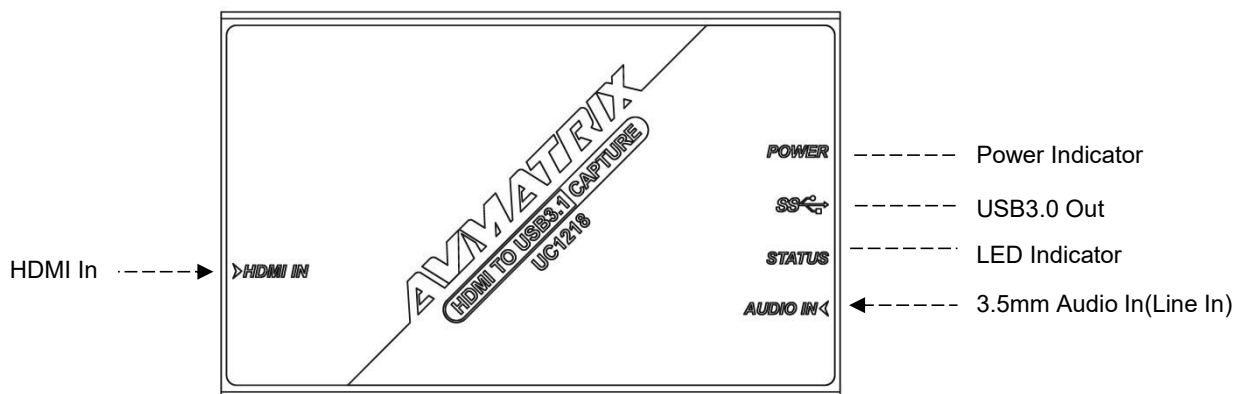
2. FEATURES

●HDMI in, audio in, USB3.0 (USB 3.1 Gen1) out

●Automatic input signal detection, up to 1080p60

● Uncompressed video & audio capture, comply with UVC and UAC

● Plug-and-Play, driver free & power free

● Compatible with Windows, Linux, macOS

●Compatible with OBS, ZOOM, Teams, Twitch, etc.

SPECIFICATIONS

Connections	
Input interface	1×HDMI 1.4a, 1×3.5mm stereo audio(line in)
Output interface	1×USB3.0 Type C(USB 3.1 Gen1, up to 200MB/s)
Format	
HDMI input format	1080p60/59.94/50/30/29.97/25/24/23.98 1080i50/59.94/60 720p60/59.94/50/30/29.97/25/24/23.98 576p50/ 576i50 480i59.94/60, 480p59.94/60
USB output format	1920×1080, 1680×1050, 1440×900, 1368×768, 1280×1024, 1280×960, 1280×800, 1280×720, 1024×768, 1024×576, 960×540, 856×480, 800×600, 768×576, 720×576, 720×480, 640×480, 640×360
Audio& video capture	UVC (USB video class) standard UAC (USB audio class) standard
Audio Codec	2-channel, 16 bit PCM, 48kHz, 1536kbps
Video Color Space	YUY2

OS and Software Compatibility	
Supports OS	Windows 7/8/10, Linux (Kernel version 2.6.38 and above), macOS (10.8 and above)
Software Compatibility	OBS studio, Skype, ZOOM, Teams, Google Meet, Youtube Live, QuikcTime Player, Face time, Wirecast, CAMTASIA, Ecamm.live, Twitch.tv, etc.
Compatible SDK	DirectShow(Windows), DirectSound(Windows)
General	
Dimensions	92×58×19mm
Weight	Net weight: 205g Gross Weight: 300g
Power Consumption	3.5W(Max)
Operating Temperature	-20~60°C
Storage Temperature	-30~70°C
Relative Humidity	20~90% RH (no condensation)
Accessory	
Accessory	1× USB3.0 A-C cable

3. INTERFACE

Note: When both HDMI IN and AUDIO IN are plugged, external audio input will take priority.
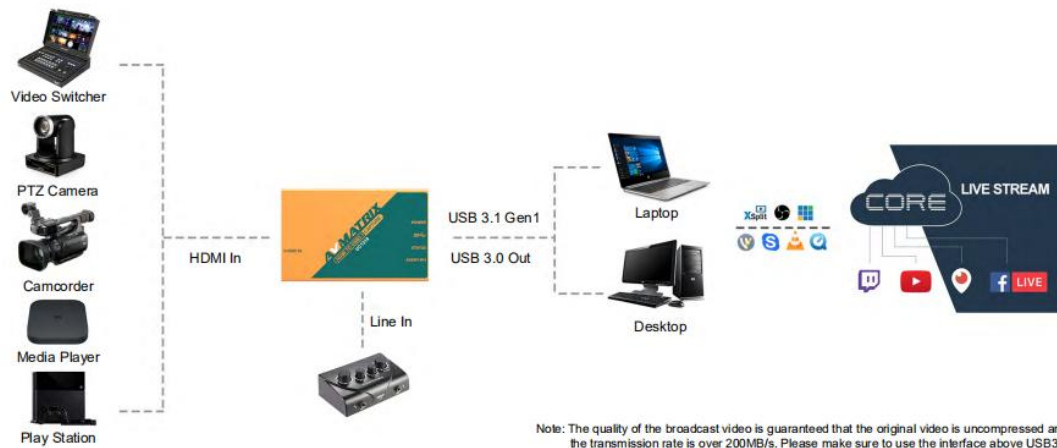
4. OPERATION INSTRUCTION

The UC1218 HDMI to USB3.0 Video Capture is based on UVC (USB video class) and UAC (USB audio class) standard. No additional drivers have to be installed. After installation in operating system, the relevant video and audio devices will be added. In the Windows Device Manager, for example, will appear two new devices:

• Under Imaging Devices: **AVMATRIX USB Capture Video**

• Under Audio inputs and outputs: **AVMATRIX USB Capture Audio**

Use a third party Video Media Player like PotPlayer, OBS, Windows Media Player to play and store the captured video content.

5. APPLICATION EXAMPLE

Note: The quality of the broadcast video is guaranteed that the original video is uncompressed and the transmission rate is over 200MB/s. Please make sure to use the interface above USB3.0 rate and the original USB cable when connecting with the computer.