



AVMATRIX SDI to USB3.1 Gen 1 Video Capture User Manual

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AVMATRIX SDI to USB3.1 Gen 1 Video Capture



INTRODUCTION

UC2018 is a professional and easy-to-use device to capture uncompressed SDI or HDMI signal over USB3.1Gen1 for graphics capture, live streaming, and recording on your laptop, or PC. Video resolution supports up to 1080p60Hz. It is compatible with various systems including Windows, Linux, OS X, etc., and is UVC and UAC compliant. The device is real plug-and-play, with no need driver. UC2018 is your ideal choice for applications like a live broadcast, streaming, and professional AV workflows including podcasting, web conferencing, video production, and screen capture.

FEATURES

- SDI/ 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, Mac OS
- Compatible with OBS, ZOOM, Teams, Twitch, etc.

SPECIFICATIONS

Connections	
Input Interface	1×HDMI 1.4a, 1×SD/HD/3G-SDI 1×3.5mm stereo audio(line in)
Output interface	1×USB3.0 Type C(USB 3.1 Gen1, up to 200MB/s)
Format	
SDI Input Format	1080p60/59.94/50/30/29.97/25/24/23.98 1080PsF30/29.97/25/24/23.98 1080i50/59.94/60 720p60/59.94/50/30/29.97/25/24/23.98 625i50/525i59.94
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, 1536 kbps
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

INTERFACE



Note: When both SDI and HDMI are plugged, the SDI input signal will take priority. When both SDI/ HDMI IN and AUDIO IN are plugged in, external audio input will take priority.

OPERATION INSTRUCTION

The UC2018 HDMI/SDI to USB3.0 Video Capture is based on UVC (USB video class) and UAC (USB audio class) standards. No additional drivers have to be installed. After the installation in the 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, or Windows Media Player to play and store the captured video content.

APPLICATION EXAMPLE



Documents / Resources



SDI to USB3.1 Gen 1 Video Capture
User Manual V1.0

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SDI to USB3.1 Gen 1 Video Capture, SDI to USB3.1, Gen 1 Video Capture, Video Capture, SD I Video Capture, USB3.1 Video Capture

References

- [Twitch](#)