



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

1. 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, 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. UC2018 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

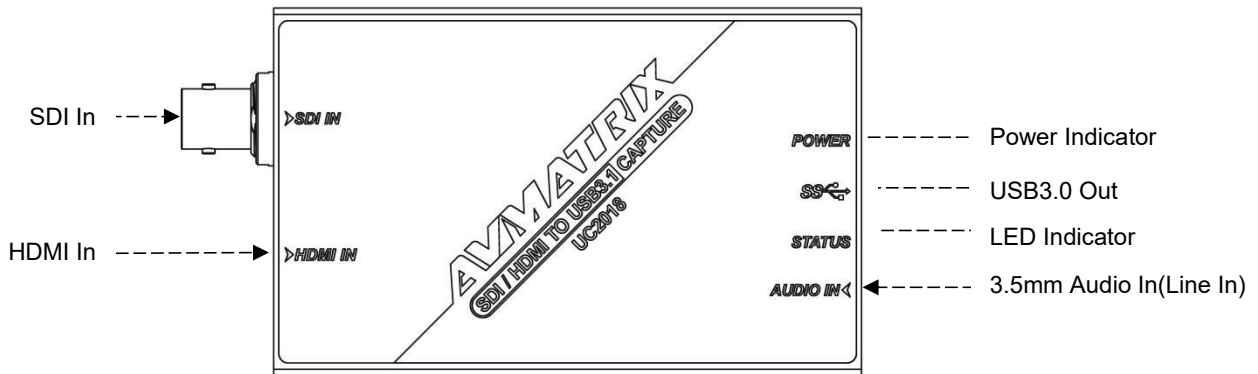
- SDI/ HDMI in, audio in, USB3.0 (USB 3.1 Gen1) out
- Automatic input signal detection, up to 1080p60
- Uncompressed video & audio capture, comply with UVC and UAC
- Plug-and-Play, driver free & power free
- Compatible with Windows, Linux, Mac OS
- Compatible with OBS, ZOOM, Teams, Twitch, etc.

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 |

3. INTERFACE



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

4. OPERATION INSTRUCTION

The UC2018 HDMI/SDI 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

