



Simply Better Connections

UC3430

CAMLIVE PRO 4K 4-Input HDMI  
to USB Video Switcher  
User Manual

## Compliance Statements

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### FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital service, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ♦ Reorient or relocate the receiving antenna.
- ♦ Increase the separation between the equipment and receiver.
- ♦ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ♦ Consult the dealer or an experienced radio/TV technician for help.

The device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.



### KCC Statement

유선 제품용 / B 급 기기 (가정용 방송 통신 기기)  
이 기기는 가정용 (B 급) 전자파적합기기로서 주로 가정에서 사용하는  
것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

**Industry Canada Statement**

This Class B digital apparatus complies with Canadian ICES-003.

**CAN ICES-003 (B) / NMB-003 (B)****HDMI Trademark Statement**

The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

**RoHS**

This product is RoHS compliant.



## User Information

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### Online Registration

Be sure to register your product at our online support center:

|               |                                                                 |
|---------------|-----------------------------------------------------------------|
| International | <a href="http://eservice.aten.com">http://eservice.aten.com</a> |
|---------------|-----------------------------------------------------------------|

### Telephone Support

For telephone support, call this number:

|               |                                           |
|---------------|-------------------------------------------|
| International | 886-2-8692-6959                           |
| China         | 86-400-810-0-810                          |
| Japan         | 81-3-5615-5811                            |
| Korea         | 82-2-467-6789                             |
| North America | 1-888-999-ATEN ext 4988<br>1-949-428-1111 |

### User Notice

All information, documentation, and specifications contained in this manual are subject to change without prior notification by the manufacturer. The manufacturer makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties as to merchantability or fitness for any particular purpose. Any of the manufacturer's software described in this manual is sold or licensed *as is*. Should the programs prove defective following their purchase, the buyer (and not the manufacturer, its distributor, or its dealer), assumes the entire cost of all necessary servicing, repair and any incidental or consequential damages resulting from any defect in the software.

The manufacturer of this system is not responsible for any radio and/or TV interference caused by unauthorized modifications to this device. It is the responsibility of the user to correct such interference.

The manufacturer is not responsible for any damage incurred in the operation of this system if the correct operational voltage setting was not selected prior to operation. PLEASE VERIFY THAT THE VOLTAGE SETTING IS CORRECT BEFORE USE.

## Product Information

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For information about all ATEN products and how they can help you connect without limits, visit ATEN on the Web or contact an ATEN Authorized Reseller. Visit ATEN on the Web for a list of locations and telephone numbers:

|               |                                                               |
|---------------|---------------------------------------------------------------|
| International | <a href="http://www.aten.com">http://www.aten.com</a>         |
| North America | <a href="http://www.aten-usa.com">http://www.aten-usa.com</a> |

## **Package Contents**

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Check to make sure that all the components are in working order. If you encounter any problem, please contact your dealer.

1 UC3430 CAMLIVE PRO 4K 4-Input HDMI to USB Video Switcher

1 USB-C to USB-C cable

1 USB Type-A to USB-C cable

1 power adapter and power cord

1 user instructions

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## About this Manual

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This user manual is provided to help you get the most out of your CAMLIVE PRO 4K unit. It covers all aspects of the device, including installation, configuration, and operation.

The model covered in this manual is:

| Model  | Product Name                                       |
|--------|----------------------------------------------------|
| UC3430 | CAMLIVE™ PRO 4K 4-Input HDMI to USB Video Switcher |

An overview of the information found in the manual is provided below.

**Chapter 1, Introduction**, introduces you to the CAMLIVE PRO 4K, its purpose, features, installation considerations, with its panel components described.

**Chapter 2, Hardware Setup**, describes the steps that are necessary to quickly and safely set up your CAMLIVE PRO 4K.

**Chapter 3, Livestream / Record Setup**, explains how to find CAMLIVE on your system and guides you to set up video and audio sources using an example (live-stream / record software / platform).

**Chapter 4, ATEN OnAir Lite App** explains how to download and configure the CAMLIVE PRO 4K's OnAir Lite app.

**Appendix**, provides a list of safety instructions and precautions, and other product specifications and technical information of the product.

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### Note:

- ♦ Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit or any connected devices.
  - ♦ The product may be updated, with features and functions added, improved or removed since the release of this manual. For an up-to-date user manual, visit <http://www.aten.com/global/en/>
-

## **Conventions**

This manual uses the following conventions:

|                                                                                   |                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monospaced                                                                        | Indicates text that you should key in.                                                                                                                                                                     |
| [ ]                                                                               | Indicates keys you should press. For example, [Enter] means to press the <b>Enter</b> key. If keys need to be chorded, they appear together in the same bracket with a plus sign between them: [Ctrl+Alt]. |
| 1.                                                                                | Numbered lists represent procedures with sequential steps.                                                                                                                                                 |
| ◆                                                                                 | Bullet lists provide information, but do not involve sequential steps.                                                                                                                                     |
| >                                                                                 | Indicates selecting consecutive options (such as on a menu or dialog box). For example, Start > Run means to open the <i>Start</i> menu, and then select <i>Run</i> .                                      |
|  | Indicates critical information.                                                                                                                                                                            |

# Chapter 1

## Introduction

### Overview

---

The CAMLIVE PRO 4K (UC3430) 4-Input HDMI to USB Video Switcher captures up to four 4K @ 60 HDM inputs, enabling users to mix dual video signals into one single stream while supporting multiple output options, including 4K @ 60 HDMI PGM / Loop-through for multiview screen purposes and 4K @ 30 USB-C output for live broadcast on the Internet. The USB-C output supports popular streaming software including Zoom, Microsoft Teams, Youtube, Facebook, GoToWebinar, Open Broadcaster, XSplit Broadcaster, and Twitch on Windows and Mac. Plus, the CAMLIVE PRO 4K features audio mixer functionalities to mix up to 4 HDMI audios and 1 line-level audio for users to add live narration / music to the content, boosting the production value of your creation.

When working with the intuitive ATEN OnAir Lite app, users can remotely control device settings in real-time, from multiple AV source switching / mixing, content cropping / resizing, layout to transitions. Apart from the versatile transition effects, the PiP / PbP / PoP functions and the support for Chroma Key help users create a dynamic presentation that will never bore the audience. In order to amplify brand identity, users are allowed to add logos in PNG / BMP / JPG format to the content. Apart from the app, the CAMLIVE PRO 4K is also controllable through its front panel pushbuttons and RJ-45 port for serial control via ATEN VK Control System.

The CAMLIVE PRO 4K works with a rack mount kit (sold separately) to give installation flexibility in media cabinets or DIT stations. With the switcher's one-stop programming and streaming functionalities that work on Windows / Mac platforms, multi-camera streaming in scenarios in need of sharp, vivid UHD quality such as multi-cam studios, corporate conferences, lecture halls, houses of worship, and live events, has never been so easy.

## Features

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- ◆ Captures 4 channels of 4K @ 60 HDMI, mixes and switches the streams while providing audio mixer functionalities and seamless transition for pro-level broadcasting
- ◆ Multiple output options:
  - ◆ HDMI PGM / Loop-through at 4K @ 60 for multiview screen purposes
  - ◆ USB-C output 4K @ 30 for live broadcast on the Internet
- ◆ Built-in audio mixer - mixes up to 4 HDMI audios and 1 line-level audio for adding live narration / music to the content
- ◆ Versatile control methods via the front panel pushbuttons, RJ-45 port for serial control via ATEN VK Control System, and ATEN OnAir Lite app
- ◆ ATEN OnAir Lite app — users can remotely control device settings in real-time, including multiple AV source switching / mixing, content cropping / resizing, layout options (full screen / PiP / PbP / PoP), transitions, Chroma Key, and logo adding
- ◆ Compatible with popular streaming software including Zoom, Microsoft Teams, Youtube, Facebook, GoToWebinar, Open Broadcaster, XSplit Broadcaster, and Twitch
- ◆ Supports UVC / UAC v1.1
- ◆ Plug-and-Play functionality with USB-C 3.2 Gen 1 compliance
- ◆ Works with major operating systems: Windows® and Mac OS X®

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## Planning the Installation

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### **Requirements**

Prepare the following before installing the CAMLIVE PRO 4K unit:

- ♦ 4 HDMI source devices
- ♦ 2 HDMI displays
- ♦ 1 hardware / software controller
- ♦ 1 audio input source
- ♦ 1 audio output source
- ♦ 1 USB-C enabled computer

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## Supported Operating System and Requirements

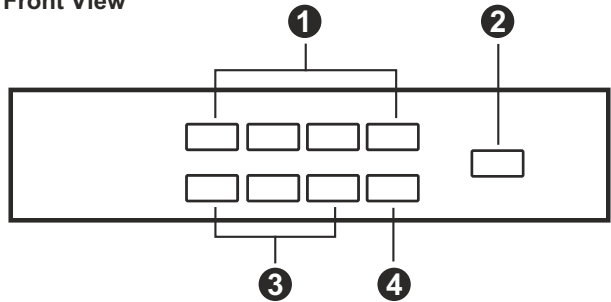
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| Operating System    | Minimum Hardware Requirement                                                                            |
|---------------------|---------------------------------------------------------------------------------------------------------|
| Windows 10 or above | CPU: Intel® i3 Dual Core 2.8Ghz or higher<br>RAM: 4GB or more<br>One USB-C Interface or USB-A Interface |

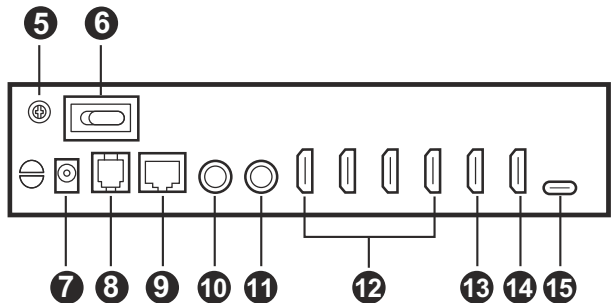
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# Components

Front View



Rear View



| No. | Component                                      | Description                                                                                                                                                                                                          |
|-----|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | port selection pushbuttons                     | Press a port selection pushbutton to bring the video and audio focus to the HDMI source attached to its corresponding port. Please see <i>Selecting a Layout and Output Source(s)</i> , page 8 for more information. |
| 2   | on air pushbutton (USB video on / off control) | Press to broadcast the selected HDMI source.                                                                                                                                                                         |
| 3   | layout selection pushbuttons                   | Press to select a layout option between full screen, PiP (Picture in Picture), and PbP (Picture by Picture). Please see <i>Selecting a Layout and Output Source(s)</i> , page 8 for more information.                |
| 4   | HDMI loop out pushbutton                       | Press to bring the selected HDMI source to the HDMI-enabled monitor connected to the HDMI loop out port. Please see <i>Selecting a Layout and Output Source(s)</i> , page 8 for more information.                    |

| No. | Component                      | Description                                                                                                                                              |
|-----|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5   | grounding terminal             | The grounding wire used to ground the switch attaches here.                                                                                              |
| 6   | power switch                   | Switches the unit's power on and off.                                                                                                                    |
| 7   | power jack                     | The power adapter plugs here.                                                                                                                            |
| 8   | RJ-11 port                     | Not applicable for now, reserved for future expansion.                                                                                                   |
| 9   | RJ-45 port<br>(RS-232 control) | Connects to a control system (e.g., VK Control Box) via Cat 5 cable for control purposes. For more information, please see VK Control Box's user manual. |
| 10  | line input port                | Connects to an audio input device, e.g., audio mixer.                                                                                                    |
| 11  | line output port               | Connects to an audio output device, e.g., audio amplifier.                                                                                               |
| 12  | HDMI input ports               | Connect up to four HDMI input sources.                                                                                                                   |
| 13  | HDMI output port (PGM)         | Connects to an HDMI-enabled display for programmed (PGM) video output.                                                                                   |
| 14  | HDMI output port (loop out)    | Connects to an HDMI-enabled display for HDMI loop out video output.                                                                                      |
| 15  | USB-C port                     | Connects to a host.                                                                                                                                      |

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## Chapter 2

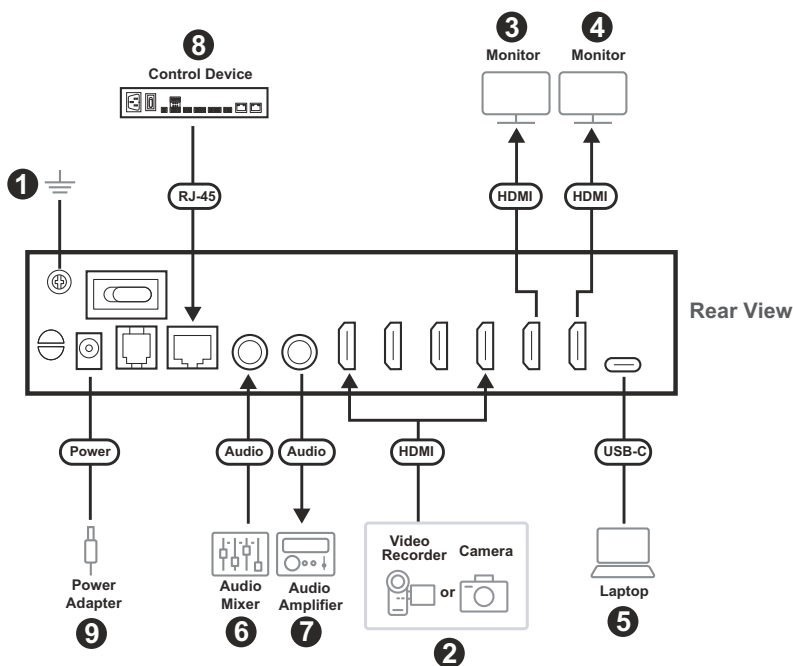
# Hardware Setup



Please review the safety information regarding the placement of this device in *Safety Instructions*, page 49.

### Connecting the CAMLIVE PRO 4K Unit

Follow the steps below to connect the CAMLIVE PRO 4K.



1. Ground the unit.
2. Connect up to 4 HDMI sources to the unit's HDMI input ports.
3. Connect an HDMI-enabled display to the unit's HDMI output port (PGM).
4. Connect an HDMI-enabled display to the unit's HDMI output port (loop out).

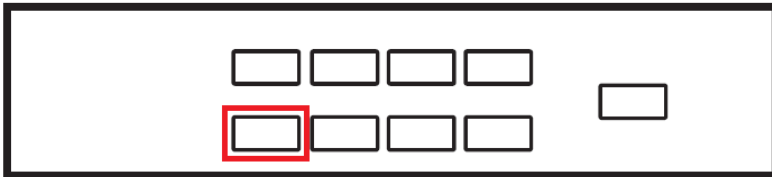
5. Connect a USB-C computer to the unit's USB-C port for OnAir Lite app / live stream use.
6. Connect an audio mixer to the unit's audio input port.
7. Connect an audio amplifier to the unit's audio output port.
8. Connect a control system (e.g., VK Control Box) to the unit's RJ-45 port via Cat 5 cable for control purposes. Please see *Serial Adapter Pin Assignments*, page 22 for more information.
9. Connect the power adapter to the unit's power jack.
10. Switch the power on.

### **Selecting a Layout and Output Source(s)**

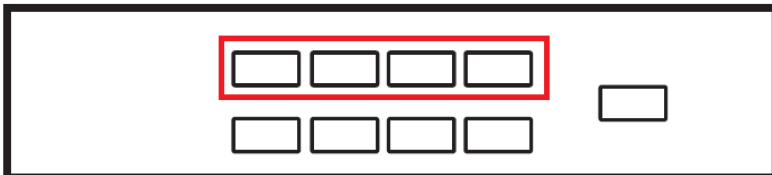
Please follow the steps below to select a desire layout and output source(s). Remember to first select a layout from the layout selection pushbuttons (full screen / PiP / PbP) or HDMI loop out pushbutton and then select output source(s).

#### **Full Screen Layout**

1. Press the full screen layout selection pushbutton.

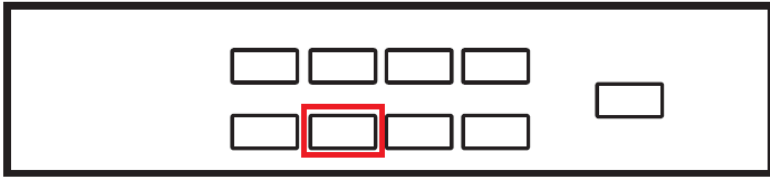


2. Select an output source for the full screen layout.

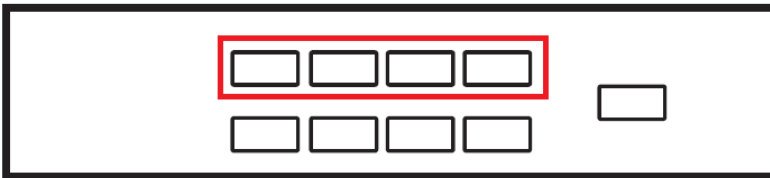


## PiP Layout

1. Press the PiP layout selection pushbutton.

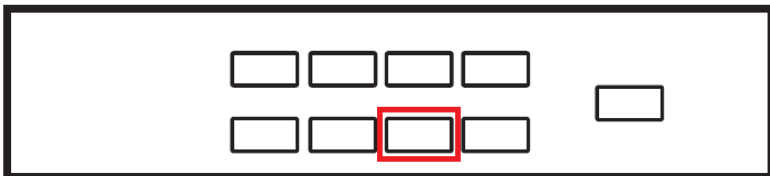


2. Select a main output source and then select another output source for the PiP layout.

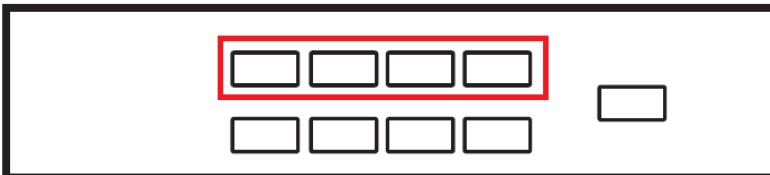


## PbP Layout

1. Press the PbP layout selection pushbutton.

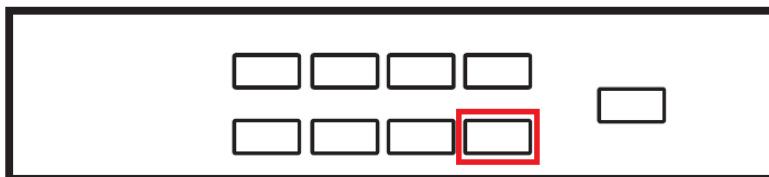


2. Select a main output source and then select another output source for the PbP layout.

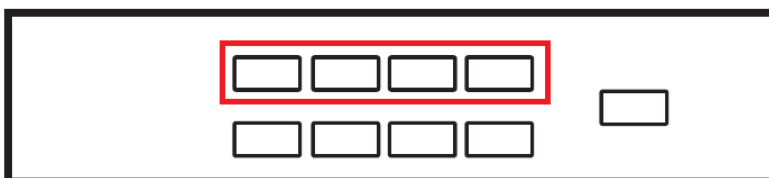


## HDMI Loop Out

1. Press the HDMI loop out pushbutton.



2. Select an output source for the HDMI loop out.



## Software

---

To enable CAMLIVE PRO 4K, please download and install a suitable video recording or live streaming software for your requirement.

### **PC**

Below lists some examples of supported video recording / live streaming software for PC.

All trademarks are property of their respective owners.

OBS: <https://obsproject.com>

Xsplit: <https://www.xsplit.com>

<https://www.youtube.com>

<https://www.facebook.com>

<https://www.zoom.com>

<https://www.skype.com>

<https://www.microsoft.com/en-us/microsoft-365>

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## Chapter 3

# Livestream / Record Setup

### **Livestream / Record Platform**

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Below lists a few of the available live-streaming or recording software/platforms:

OBS: <https://obsproject.com>

Xsplit: <https://www.xsplit.com>

<https://www.youtube.com>

<https://www.facebook.com>

<https://www.zoom.com>

<https://www.skype.com>

<https://www.microsoft.com/en-us/microsoft-365>

All trademarks are property of their respective owners.

### **Discovering CAMLIVE on your System**

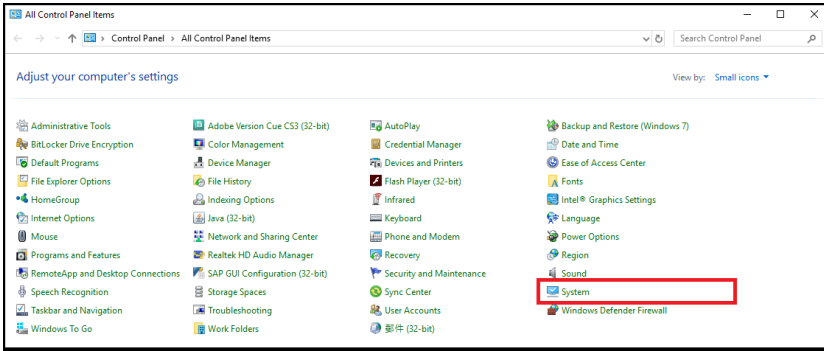
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CAMLIVE PRO 4K is a plug-and-play device, please make sure your system is able to discover it. After connecting CAMLIVE PRO 4K as shown in *Connecting the CAMLIVE PRO 4K Unit* on page 7, refer to the examples below on how your system may discover CAMLIVE PRO 4K.

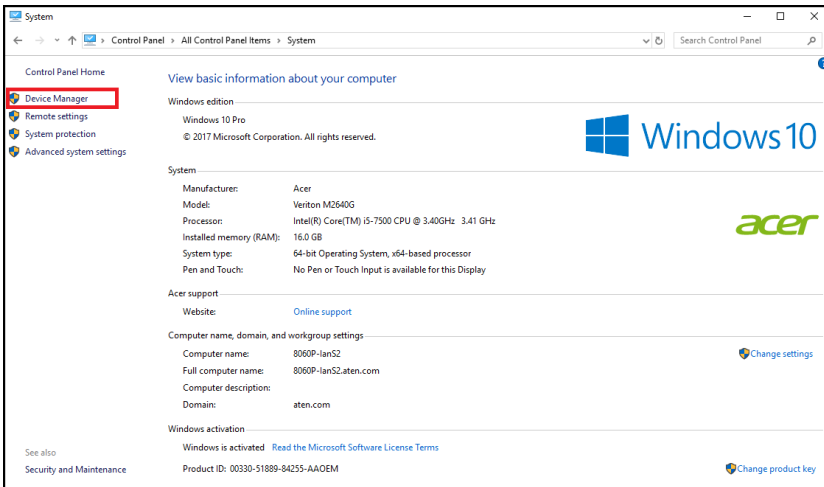
#### **Windows Operating System**

This is an example used in a Windows 10 Operating System.

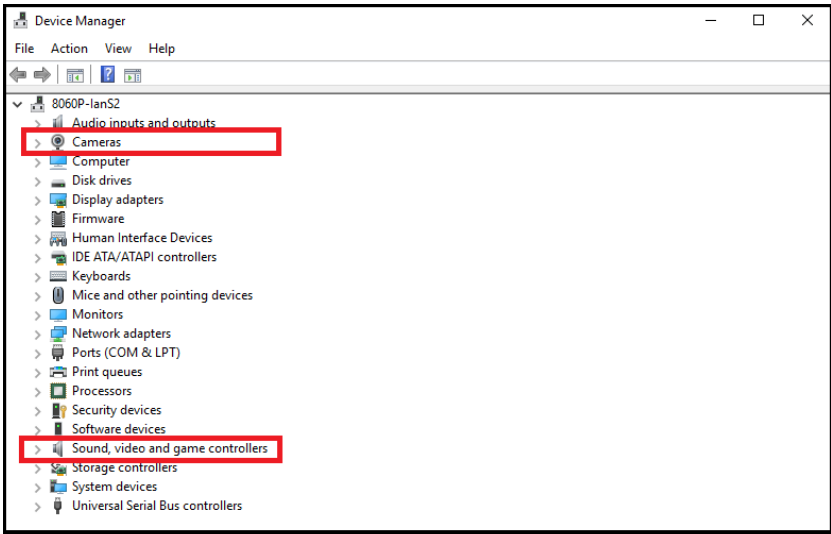
1. On a Windows 10 desktop, go to **Control Panel** and select **System**.



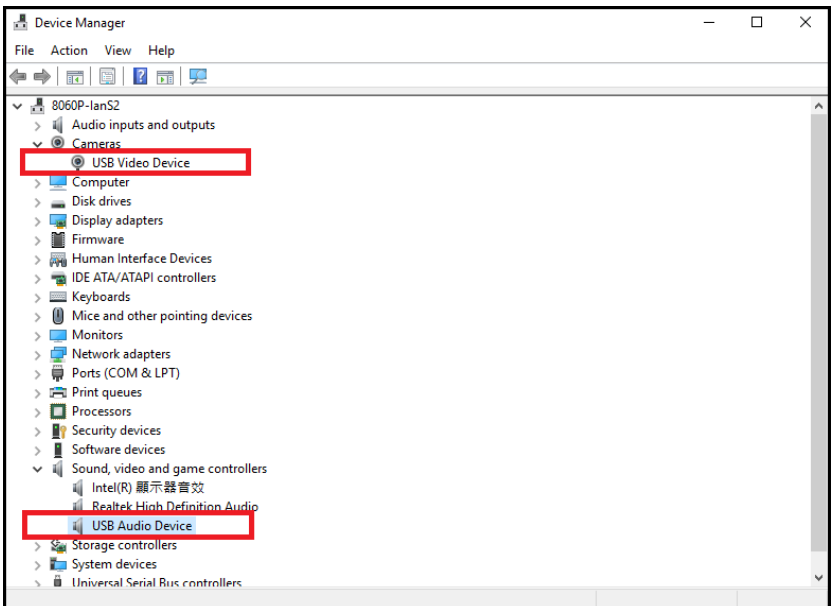
2. The System window appears, select **Device Manager**.



3. The Device Manager window appears. Click on **Cameras and Sound, video and game controllers**.



4. You should see an “USB Video Device” in the *Camera list*, and an “USB Audio Device” in the *Sound, video and game controllers list*. This indicates that your system has successfully discovered CAMLIVE PRO 4K.

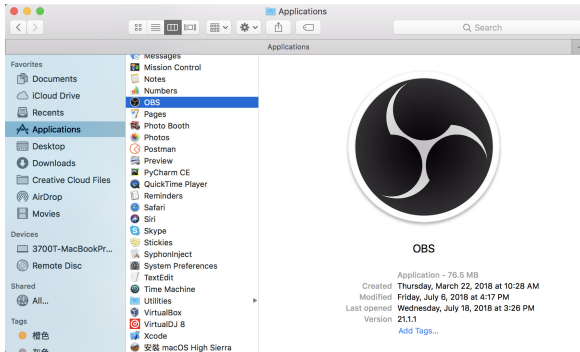


## Video and Audio Setup

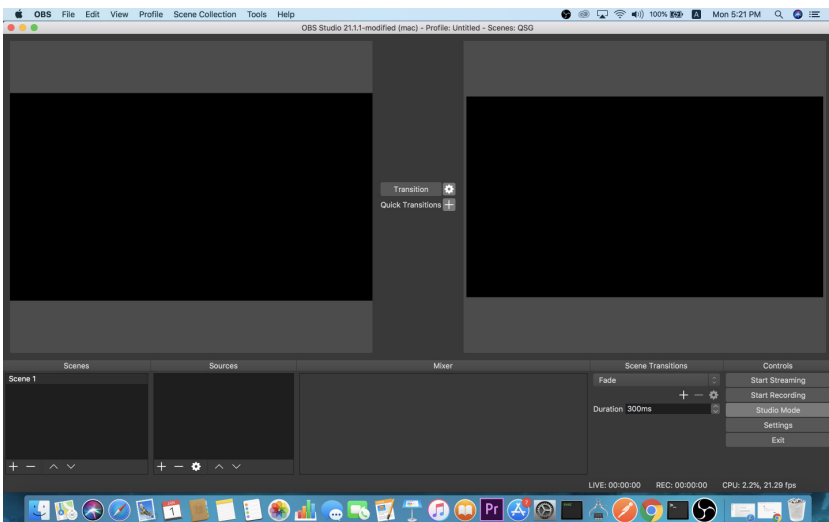
After your system discovers CAMLIVE PRO 4K, choose your livestream/record platform. You will need to setup the video and audio source coming from CAMLIVE PRO 4K.

Follow the steps below to setup your video and audio sources (separately).

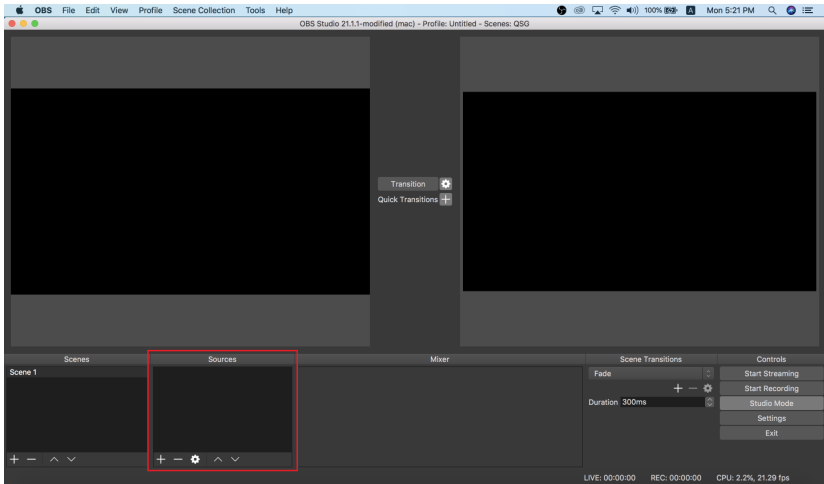
**Note:** OBS software is the example used in the setup steps below.



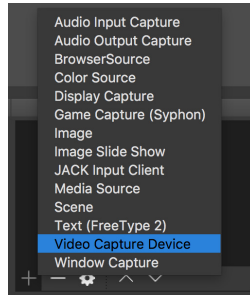
1. On your system, open the OBS software.



2. Locate and click the “+” button on the bottom of the “Sources” pane (outlined in red in the picture below) to open the add source menu:

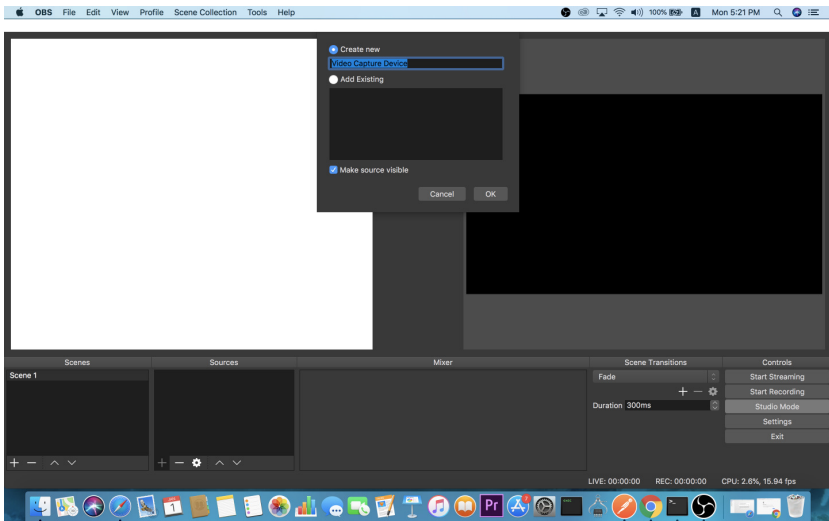


3. Select “Video Capture Device” or “Audio Capture Device.”

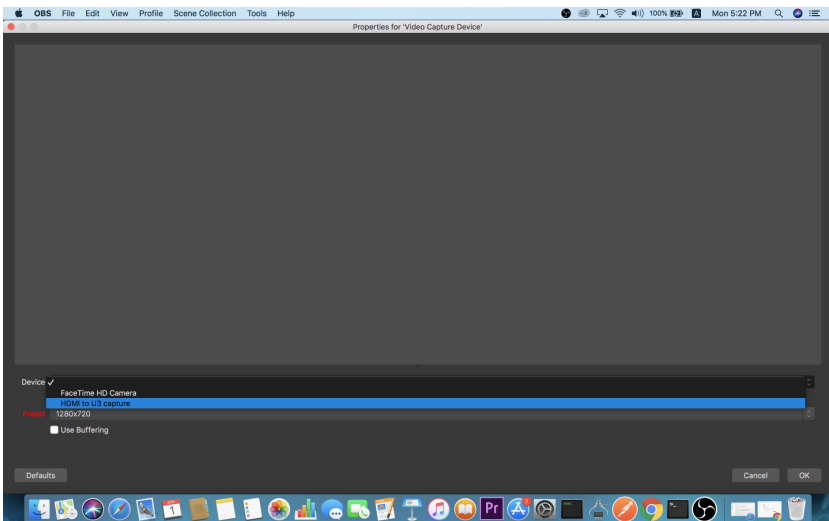


- A pop-up window will be shown for you to name the video/audio source. Click the “OK” button to continue.

It is recommended that “Make source visible” is checked.



- On the properties page, click the drop-down menu named “Device” to select CAMLIVE PRO 4K’s video/audio source. Both the video and audio sources of CAMLIVE PRO 4K have the name “HDMI to U3 capture”.

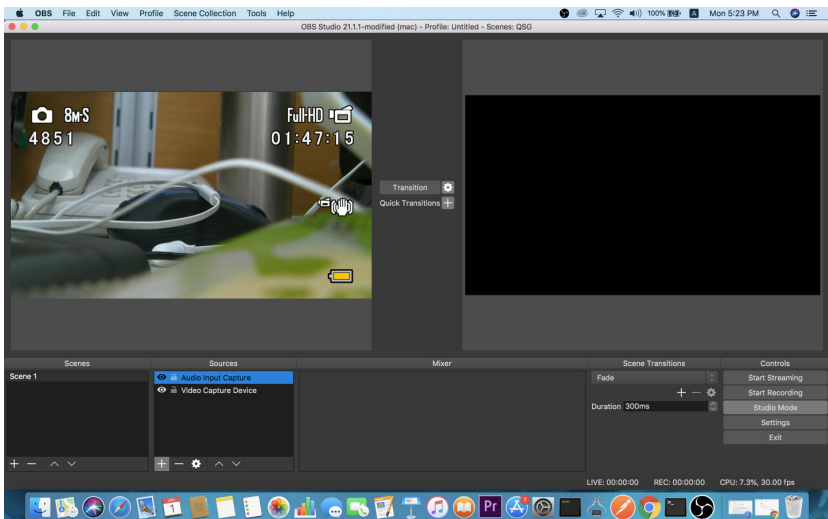


After selecting the video source, the image from CAMLIVE PRO 4K should be displayed as shown below.

Click the “OK” button to continue.



6. For successful setup, the sources will be shown in the “Source” panel.



Setup of video and audio sources are complete, you can now start live-streaming/video recording.

Detailed configuration of your live-streaming/video recording software/platform is not within the scope of this user manual, please refer to the software/platform's instruction guides/manual.

## Using the USB Cables

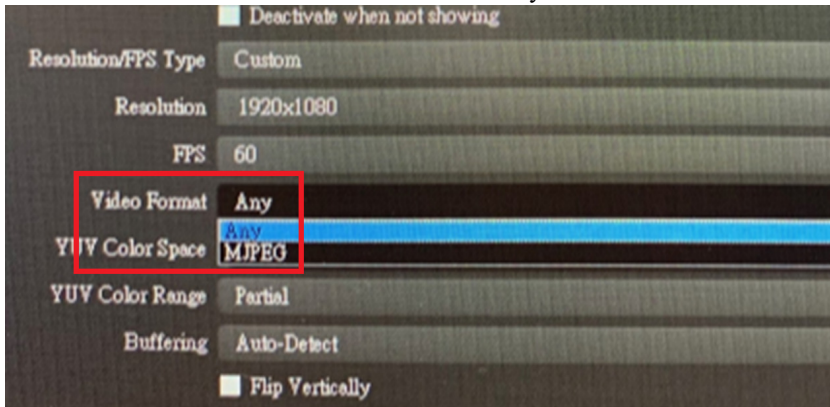
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When connecting CAMLIVE PRO 4K on a PC with a USB 2.0 interface, it will automatically set the provided compressed video quality to the MJPEG compression mode to fit the data bandwidth. For better video quality, we strongly recommend to connect CAMLIVE™ PRO to a USB 3.1 Gen1 interface.

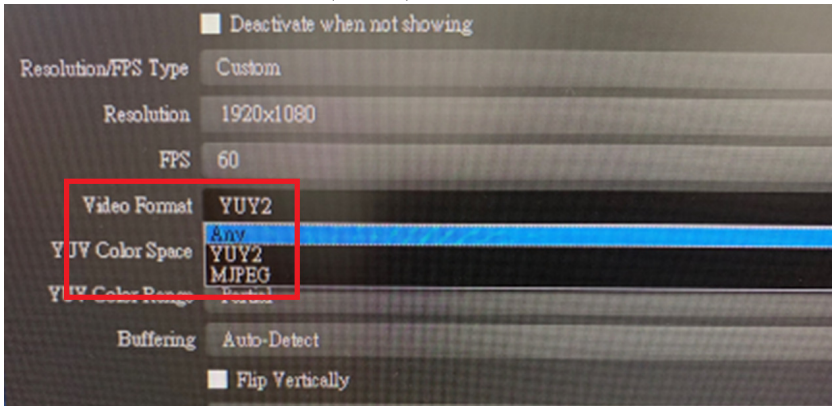
To make sure the result match your media output you wish to capture, please check the detected video format from your capture software first.

Capture device custom setting page examples displaying USB 3.1-RAW and USB 2.0-MJPEG on OBS software are shown below:

- USB 2.0 mode with MJPEG video format only



- ◆ USB 3.1 mode with RAW (YUY2) and MJPEG video formats



If you find that the captured media only has MJPEG format, simply flip the USB-C to USB-C cable connector connected to the CAMLIVE PRO 4K.

## Serial Adapter Pin Assignments

To connect the CAMLIVE PRO 4K to a control system, we recommend to use UC232A / UC232A1 USB to RS-232 Adapter, UC232B USB to RJ-45 (RS-232) Console Adapter, or a third party RS232 adapter. Please see below for the serial adapter pin assignments.

**Note:** To purchase an UC232A / UC232A1 USB to RS-232 Adapter or UC232B USB to RJ-45 (RS-232) Console Adapter, contact your ATEN dealer for more information.

| CAMLIVE PRO 4K |           | UC232B RJ-45 Port |        | UC232A DB-9 Port |          | 3-Pin Terminal |
|----------------|-----------|-------------------|--------|------------------|----------|----------------|
| Signal         | RJ-45 Pin | Straight-Cable    | Signal | Signal           | DB-9 Out | Pin Out        |
|                | 1         | 1                 | CTS    | CTS              | 8        |                |
|                | 2         | 2                 | DSR    | DSR              | 6        |                |
| TxD            | 3         | 3                 | RxD    | RxD              | 2        | RxD            |
| GND            | 4         | 4                 | GND    | GND              | 5        | GND            |
| GND            | 5         | 5                 | GND    | GND              | 5        |                |
| RxD            | 6         | 6                 | TxD    | TxD              | 3        | TxD            |
|                | 7         | 7                 | DTR    | DTR              | 4        |                |
|                | 8         | 8                 | RTS    | RTS              | 7        |                |

## **RS-232 Operation**

---

Once the CAMLIVE PRO 4K is connected to a control system, it can be managed by the control system via RS-232 serial operations. Please see below for baud rate settings and the supported RS-232 commands.

### **RS-232 Baud Rate**

The default settings is shown below:

- ♦ Baud Rate: 115200
- ♦ Data Bit: 8 bit
- ♦ Parity: None
- ♦ Stop Bit: 1 bit
- ♦ Flow Control: off

## RS-232 Commands

| Command | Variable                                                                                                                                                                                                                                             | Action                                                                                                                                                                                                                                                                                      |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| help    | –                                                                                                                                                                                                                                                    | Lists all the supported commands with descriptions.<br>For example, to list all the supported commands, type the following:<br><code>help</code>                                                                                                                                            |
| echo    | on / off                                                                                                                                                                                                                                             | Sets the echo on or off.<br>For example, to enable echo on the CAMLIVE PRO 4K, type the following:<br><code>echo on</code>                                                                                                                                                                  |
| reboot  | –                                                                                                                                                                                                                                                    | Reboots the CAMLIVE PRO 4K.<br>For example, to reboot the CAMLIVE PRO 4K, type the following:<br><code>reboot</code>                                                                                                                                                                        |
| reset   | –                                                                                                                                                                                                                                                    | Resets the CAMLIVE PRO 4K to its default configuration.<br>For example, to reset the CAMLIVE PRO 4K to its default configuration, type the following:<br><code>reset</code>                                                                                                                 |
| read    | –                                                                                                                                                                                                                                                    | Gets the current firmware version and status.<br>For example, to get the current firmware version and status, type the following:<br><code>read</code>                                                                                                                                      |
| scene   | Scene: s00 / s01 / s02 / s03 / s04 / s05 / s06 / s07                                                                                                                                                                                                 | Switches to a specified scene.<br>For example, to switch to scene ID 0, type the following:<br><code>s00</code>                                                                                                                                                                             |
| baud    | <ul style="list-style-type: none"> <li>◆ Baud Rate: 2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200 / 230400 / 460800 / 921600</li> <li>◆ Stop Bits: 1 / 2</li> <li>◆ Data Bits: 7 / 8</li> <li>◆ Flow Control: rtscts / xonoff / off</li> </ul> | <p>Sets the baud rate for the CAMLIVE PRO 4K.</p> <p><b>Note:</b> The flow control variable has to be entered at last.</p> <p>For example, to set the baud rate to 15200, data bits to 8, stop bits to 1, and no flow control, type the following:<br/><code>baud 115200 8 1 off</code></p> |

| Command        | Variable                                                                                                                                                                                                                                                                                                                                    | Action                                                                                                                                                                                                       |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| selfdiagnostic | —                                                                                                                                                                                                                                                                                                                                           | Performs a self diagnostic.<br>For example, to perform a self diagnostic on the CAMLIVE PRO 4K, type the following:<br><code>selfdiagnostic</code>                                                           |
| fullscreen     | HDMI Input: i1 / i2 / i3 / i4                                                                                                                                                                                                                                                                                                               | Sets the specified HDMI input port to full-screen.<br>For example, to set the HDMI input port 1 to full-screen, type the following:<br><code>fullscreen i1</code>                                            |
| blackscreen    | on / off                                                                                                                                                                                                                                                                                                                                    | Sets the PGM black screen on or off.<br>For example, to set the PGM to display black screen, type the following:<br><code>blackscreen off</code>                                                             |
| logo           | <ul style="list-style-type: none"> <li>◆ Enable / Disable: d on / d off</li> <li>◆ Set Logo Position: p upleft / p upright / p downleft / p downright</li> <li>◆ Tune Logo Position: o xxx [0-100]</li> </ul>                                                                                                                               | Sets the logo on or off and adjusts its position.<br>For example, to enable the logo and set its position to upright with a tuning value of 10, type the following:<br><code>logo d on p upright o 10</code> |
| vborder        | <ul style="list-style-type: none"> <li>◆ Enable / Disable: d on / d off</li> <li>◆ Video Border Color: c xxx xxx xxx [0-255]</li> <li>◆ Video Border Size: s x [1-7]</li> </ul>                                                                                                                                                             | Sets the video border on or off and adjusts its color and size.<br>For example, to enable the video border and configure its color and size, type the following:<br><code>vborder d on c 0,255,0 s 6</code>  |
| transition     | <ul style="list-style-type: none"> <li>◆ Transition Style: st 01 (Transition W) / st 02 (Transition RD) / st 03 (Transition LD) / st 04 (Transition Up) / st 05 (Transition B) / st 06 (Transition R) / st 07 (Transition L) / st 08 (Transition Down)</li> <li>◆ Transition Speed: sp 01 (Fast) / sp 02 (Medium) / sp 03 (Slow)</li> </ul> | Sets the transition style and transition speed.<br>For example, to set the transition style (Transition W) and speed (Fast), type the following:<br><code>transition st 02 sp 01</code>                      |

| Command         | Variable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Action                                                                                                                                                                                                                                                                                                 |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| audioconfig     | <ul style="list-style-type: none"> <li>◆ Select Input: i1 (HDMI 1) / i2 (HDMI 2) / i3 (HDMI 3) / i4 (HDMI 4) / pgm / linein / lineout</li> <li>◆ Set Control: c on / c off / c afv</li> <li>◆ Set Audio Balance: b xxx [-127-127]</li> <li>◆ Set Audio Volume: v xxx [100-10]</li> <li>◆ Compressor Switch: cp on / cp off</li> <li>◆ Audio Type: ty mono / ty stereo</li> <li>◆ Threshold: th xx [-20-0]</li> <li>◆ Lineout Audio Source: s i1 (HDMI 1) / s i2 (HDMI 2) / s i3 (HDMI 3) / s i4 (HDMI 4) / s pgm / s linein</li> </ul> | <p>Sets the audio configurations.</p> <p>For example, to configure the audio input as lineout, enable the control, set the audio volume to 10, select HDMI 1 as the audio audio source, and set the threshold value to -5, type the following:</p> <pre>audioconfig lineout c on v 10 s i1 th -5</pre> |
| chromakey       | <ul style="list-style-type: none"> <li>◆ Enable / Disable: en on / en off</li> <li>◆ Chroma Key Input: s i1 (HDMI 1) / s i2 (HDMI 2) / s i3 (HDMI 3) / s i4 (HDMI 4)</li> <li>◆ Chromakey Color: c xxx xxx xxx [0-255]</li> <li>◆ Color Range: cr xxx [0-100]</li> <li>◆ Threshold: th xxx [0-100]</li> <li>◆ Softness Value: sf xxx [0-100]</li> </ul>                                                                                                                                                                                | <p>Sets the chromakey on or off and its configuration.</p> <p>For example, to enable the chromakey on input source 1, specify the key color and color range, and set the threshold and softness values, type the following:</p> <pre>chromakey en on s i1 c 0,255,0 cr 10 th 10</pre>                  |
| videoresolution | <ul style="list-style-type: none"> <li>◆ Video Resolution: 720p / 1080p / 4k</li> <li>◆ Frame Rate: @ 24 / @ 25 / @ 30 / @ 50 / @ 60</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                        | <p>Sets the PGM video resolution and frame rate.</p> <p>For example, to configure the PGM video resolution to 1080p and frame rate of 60 Hz, type the following:</p> <pre>videoresolution 1080p@60</pre>                                                                                               |

| Command     | Variable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sceneconfig | <ul style="list-style-type: none"> <li>◆ Scene Select: 0 / 1 / 2 / 3 / 4 / 5 / 6 / 7</li> <li>◆ Layout Mode: m full / m pip / m pbph / m pbpv</li> <li>◆ Input Source 1 (full / pip background screen / pbph left screen / pbpv top screen): s1 1 (HDMI 1) / s1 2 (HDMI 2) / s1 3 (HDMI 3) / s1 4 (HDMI 4)</li> <li>◆ Input Source 1 Size: p1 [0-1279] [0-719] [1-1280] [1-720] (if resolution is set to 720p) / p1 [0-1919] [0-1079] [1-1920] [1-1080] (if resolution is set to 1080p) / p1 [0-3839] [0-2159] [1-3840] [1-2160] (if resolution is set to 4k)</li> <li>◆ Input Source 2 (pip foreground / pbph right screen / pbpv bottom screen): s2 1 (HDMI 1) / s2 2 (HDMI 2) / s2 3 (HDMI 3) / s2 4 (HDMI 4)</li> <li>◆ Input Source 2 Size: p2 [0-1279] [0-719] [1-1280] [1-720] (if resolution is set to 720p) / p2 [0-1919] [0-1079] [1-1920] [1-1080] (if resolution is set to 1080p) / p2 [0-3839] [0-2159] [1-3840] [1-2160] (if resolution is set to 4k)</li> <li>◆ Resolution: res 720p (1280 x 720) / res 1080p (1920 x 1080) / res 4k (3840 x 2160)</li> </ul> | <p>Sets the scene configuration between full, picture in picture, picture by picture horizontal, and picture by picture vertical, source input, source size, and resolution. For example, to configure Scene 1 with pbph layout, set HDMI input source 1 as the left screen with a screen area of 0,0,960,1080, set HDMI input source 2 as the right screen with a screen area of 960,0,960,1080, and set the resolution to 1080p, type the following:</p> <pre>sceneconfig 1 m pbph s1 1 p1 0,0,960,1080 s2 2 p2 960,0,960,1080 res 1080p</pre> |

| Command   | Variable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Action                                                                                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| multiview | <ul style="list-style-type: none"> <li>◆ Output Source: o pgm / o loop</li> <li>◆ Input Source: i 01 (HDMI 1) / i 02 (HDMI 2) / i 03 (HDMI 3) / i 04 (HDMI 4)</li> <li>◆ Multiview Mode: full / pip1 (sets pip foreground window in bottom-right corner of the screen) / pip2 (sets pip foreground window to bottom-left corner of the screen) / pip3 (sets pip foreground window to top-left corner of the screen) / pip4 (sets pip foreground window to top-right corner of the screen) / pbp1 (with blackscreen) / pbp2 (without blackscreen)</li> </ul> | <p>Sets the multiview configuration. For example, to configure the multiview with pgm as the output port, select HDMI input sources 1 and 3, enable pip mode, and position the pip foreground window in the bottom-right corner of the screen, type the following:</p> <pre>multiview o pgm i 01,03 m pip1</pre> |
| lock      | <ul style="list-style-type: none"> <li>◆ Password (6 digits): xxxxxx [0-9]</li> <li>◆ Empty password can also lock the front panel</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Locks the front panel operation. For example, to lock the front panel of the CAMLIVE PRO 4K using the password 1, 2, 3, 4, 5, 6, type the following:</p> <pre>lock 123456</pre>                                                                                                                               |
| unlock    | <ul style="list-style-type: none"> <li>◆ Password (6 digits): xxxxxx [0-9]</li> <li>◆ If no password was used to lock the front panel, use command "unlock" to unlock</li> </ul>                                                                                                                                                                                                                                                                                                                                                                            | <p>Unlocks the front panel operation. For example, to unlock the front panel of the CAMLIVE PRO 4K using the password 1, 2, 3, 4, 5, 6, type the following:</p> <pre>unlock 123456</pre>                                                                                                                         |

# Chapter 4

## ATEN OnAir Lite App

### ATEN OnAir Lite Application

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ATEN OnAir Lite app acts as the central controller for CAMLIVE PRO 4K. The app's design is a control panel where you can monitor program results, edit scenes, setup video and audio settings, etc. Download the ATEN OnAir Lite app from the Microsoft and install it on your laptop and PC.

### Supported Systems

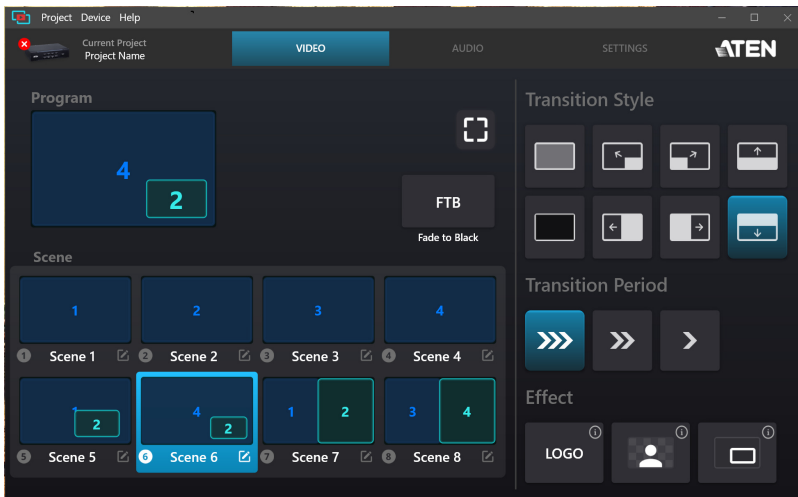
The ATEN OnAir Lite app supports the following mobile operating systems:

| Mobile Operating System |
|-------------------------|
| Windows 10 or above     |

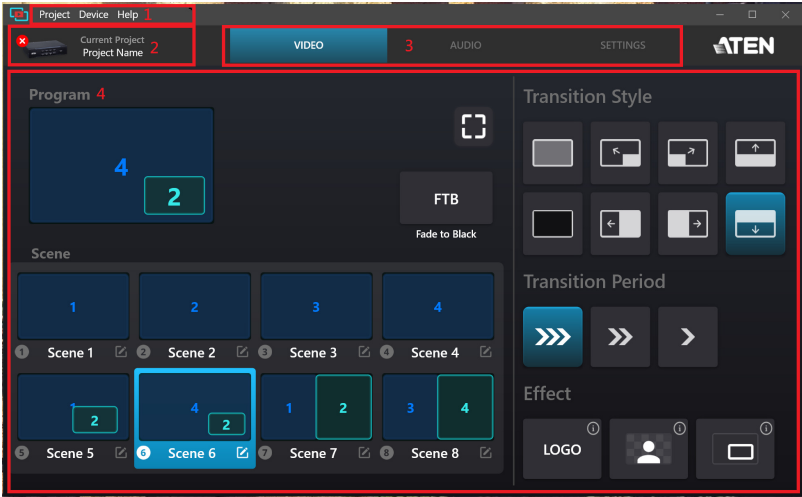
## Installing the ATEN OnAir Lite App

1. Install the ATEN OnAir Lite app on a Windows laptop or PC.
  - a) Go to Microsoft Store.
  - b) In the search box, type “CAMLIVE PRO 4K”.
  - c) Click the ATEN OnAir Lite to download the app.
2. From your downloads file, double-click the downloaded package and click **Install**.
3. Follow the on-screen instructions.

When you open the ATEN OnAir Lite app, the screen below appears.



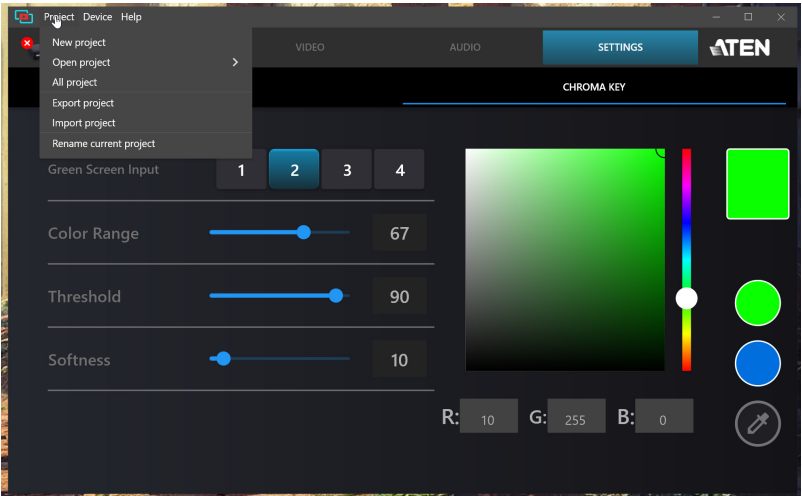
# Page Components



| No. | Component               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Project / Device / Help | <ul style="list-style-type: none"><li>◆ Project: click to create new project, open, import, or export projects, see all projects, and rename current project. See <i>Project Settings</i>, page 32.</li><li>◆ Device: click to disconnect the device, see or upgrade firmware and software version. See <i>Device Settings</i>, page 32.</li><li>◆ Help: click to run the tutorial and to see firmware and software version. See <i>Help</i>, page 33.</li></ul> |
| 2   | System Information      | Click to see or upgrade the current software version and its information, or disconnect with the device. See <i>System Information</i> , page 33.                                                                                                                                                                                                                                                                                                                |
| 3   | Deck Selector           | Tap to select the desired configuration deck. Three decks are available: Video Mixer, Audio Mixer, and Settings.<br>Video Mixer: see <i>Video Mixer</i> , page 35.<br>Audio Mixer: see <i>Audio Mixer</i> , page 42.<br>Settings: see <i>Settings Panel</i> , page 45.                                                                                                                                                                                           |
| 4   | Deck Content            | The content depends on the selected deck.                                                                                                                                                                                                                                                                                                                                                                                                                        |

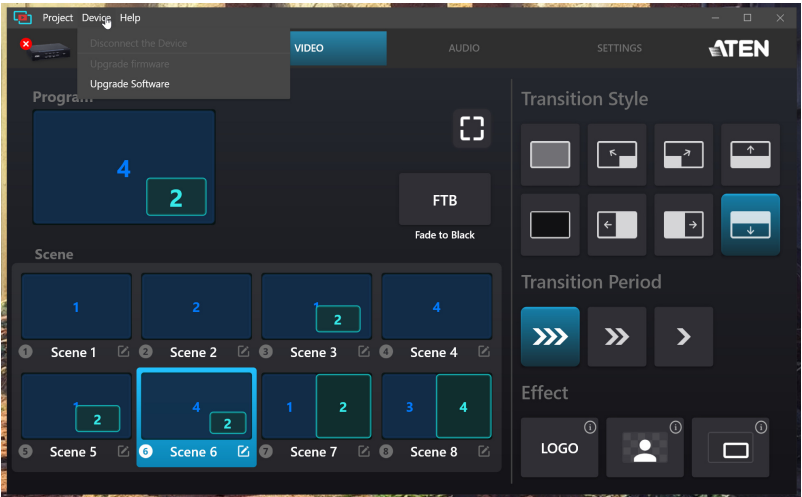
**Project Settings**

Click to modify your project name, create, open, import, or export a project, and see available projects.



**Device Settings**

Click to browse or upgrade the current software and firmware version, or disconnect with the device.



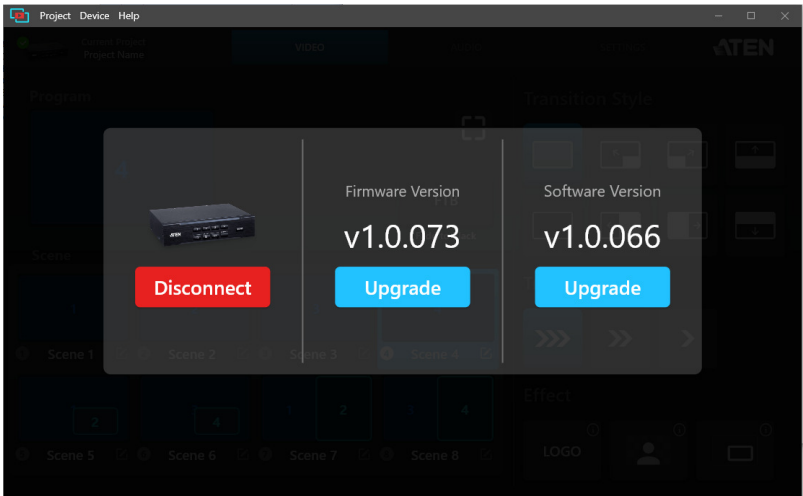
**Help**

Click to run the tutorial and to see the firmware and software version.



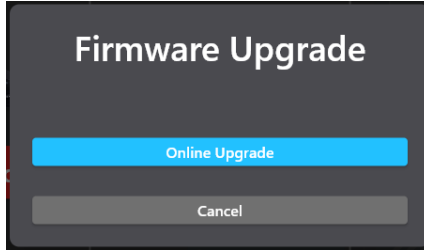
**System Information**

Click to connect or disconnect with the device, and to see or upgrade the current firmware / software version, and its information.



## Upgrading Firmware

To upgrade the firmware, click **Upgrade**. When the following screen appears, click **Online Upgrade** and follow the on-screen instructions.



## Upgrading Software

To upgrade the software, click **Upgrade** and follow the on-screen instructions.

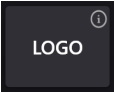
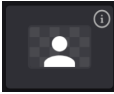
# Video Mixer

The Video Mixer deck page allows you to adjust effect on your video, scene selection and editing, and transition control.

The components of the page is shown below:



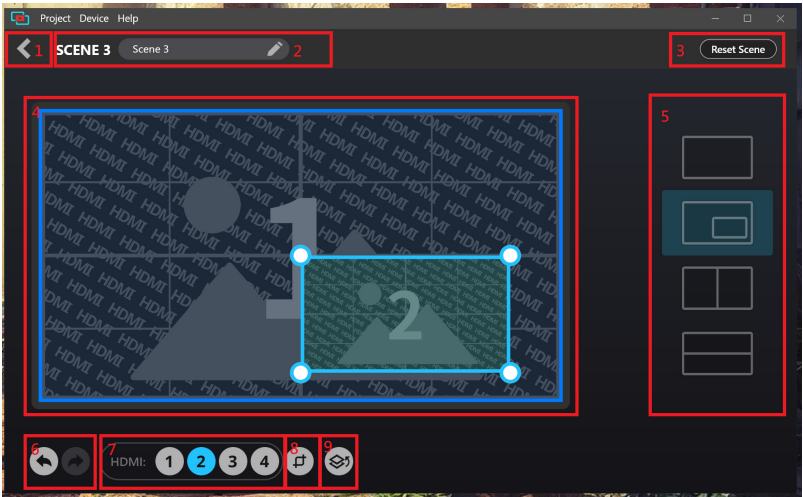
| No. | Component         | Description                                                                   |
|-----|-------------------|-------------------------------------------------------------------------------|
| 1   | Program           | The program scene, or the on-air video output of the system.                  |
| 2   | Enlarge           | Click to view the video source in full screen mode.                           |
| 3   | Fade to Black     | Click to fade to video source to black screen.                                |
| 4   | Transition Style  | Selects a transition style for the current stream (PGM).                      |
| 5   | Scene Selector    | 8 scenes are shown here. Tap a scene to put the scene into the program scene. |
| 6   | Transition Period | Specifies a time to begin the transition after 1, 2, and 3 seconds.           |

| No. | Component      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7   | Effect Control | <p>Click  to enable the logo effect on the HDMI display connected to the HDMI program output port. See <i>LOGO Position</i>, page 46 for more details.</p> <p>Click  to enable the chroma key effect on the HDMI display connected to the HDMI program output port. See <i>Chroma Key</i>, page 46 for more details.</p> <p>Click  to show a video border around the selected scene to appear on the HDMI display connected to the HDMI program output port.</p> |

Scene Editor

To edit a scene, follow the steps below.

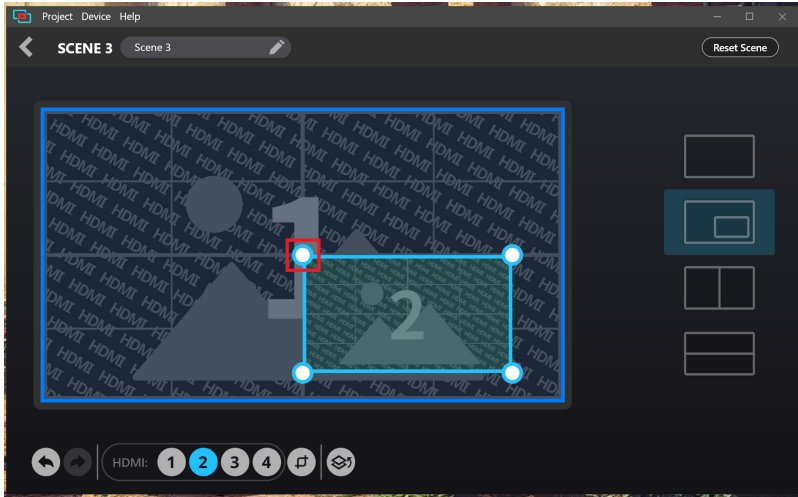
- 1. Select a scene from the scene selector.
- 2. Tap the  button from the selected scene on the Video Mixer page.



| No. | Component                       | Description                                                                                                                                                                                                                                                                      |
|-----|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Return Button                   | Clicks to return to the Video Mixer page                                                                                                                                                                                                                                         |
| 2   | Scene Name                      | This region displays the scene name. Click to edit the scene name.                                                                                                                                                                                                               |
| 3   | Reset Button                    | Clicks to reset the current scene.                                                                                                                                                                                                                                               |
| 4   | HDMI Display(s) and Resize Tool | Displays the selected HDMI display(s) with resize / crop tool. To resize the HDMI display, see <i>Resize</i> , page 38.                                                                                                                                                          |
| 5   | Layout Selection                | Clicks to select a preferred layout. You can also resize the dual-view.                                                                                                                                                                                                          |
| 6   | Undo / Redo                     | <ul style="list-style-type: none"> <li>◆ Click  to undo changes.</li> <li>◆ Click  to redo changes.</li> </ul> |
| 7   | HDMI Sources                    | Clicks to select an HDMI source for the selected display(s).                                                                                                                                                                                                                     |
| 8   | Crop Button                     | Clicks to crop the HDMI display, see <i>Crop</i> , page 39.                                                                                                                                                                                                                      |
| 9   | Overlay Button                  | Clicks to switch between main display and overlay display, see <i>Reset Scene Button</i> , page 41. You can also resize and crop the overlay scene.                                                                                                                              |

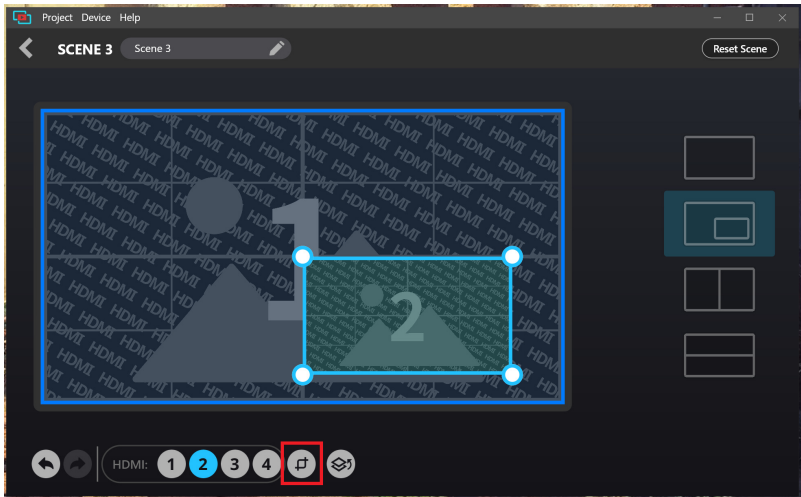
## Resize

To resize HDMI display(s), select a scene and select an HDMI display. A resize tool  will be visible on the selected HDMI display(s) in the scene editor page. Click and hold to drag the resize tool  to resize the display(s).



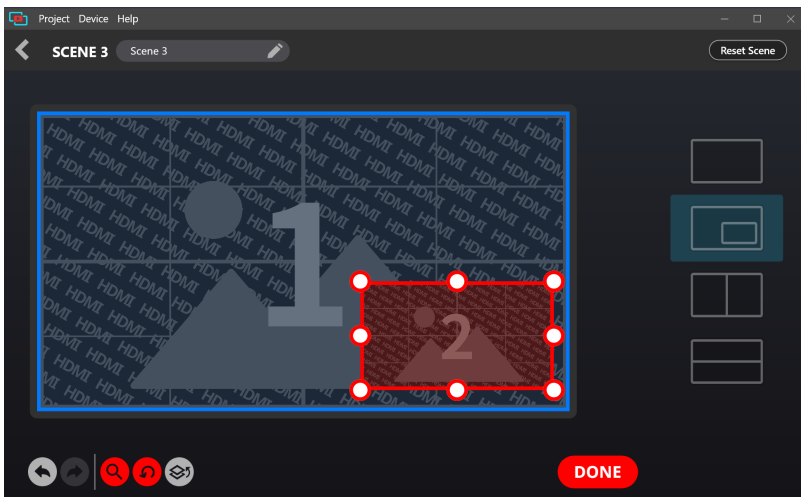
## Crop

To crop HDMI display(s), select a scene and select an HDMI display. A crop tool  will be visible on the selected HDMI display(s) in the scene editor page.



To crop the display(s), follow the steps below.

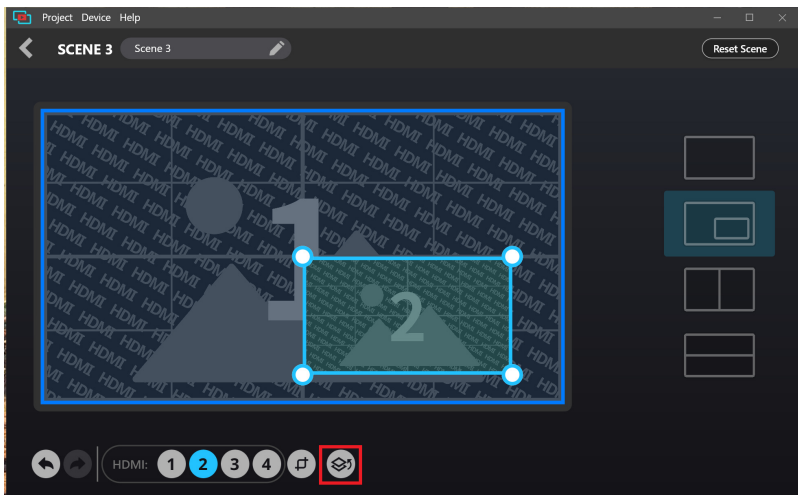
1. Select an HDMI display, click the crop tool  and the screen below appears.



2. Click and hold to drag the crop tool  to adjust the cropping area.
3. (Optional) Click  to enlarge the crop display to help you easily adjust the cropping area.
4. Click  to relocate the cropping area.
5. When completed, click **Done**.

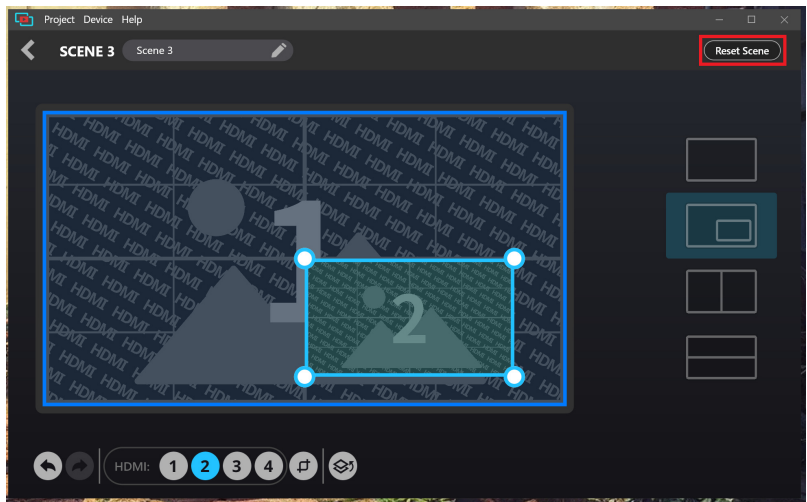
## Overlay Button

To view the overlay display from a dual-view scene, tap  from the Scene Editor page.



## Reset Scene Button

To reset or undo any changes made to the selected scene, tap **Reset Scene** from the Scene Editor page. A warning message appears, click **OK**.

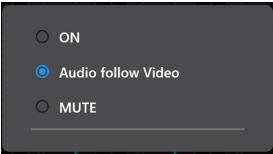
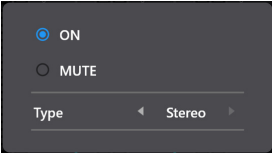


# Audio Mixer

The components of the Audio Mixer deck page is shown below:



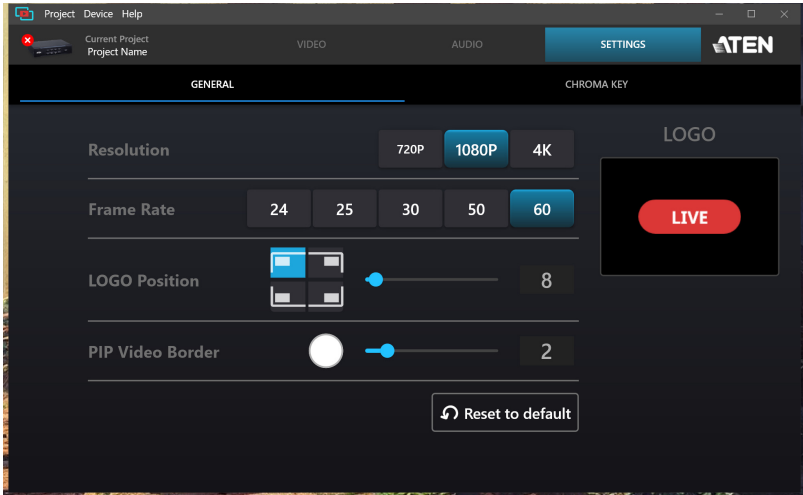
| No. | Component           | Description                                                          |
|-----|---------------------|----------------------------------------------------------------------|
| 1   | Audio Level Control | Slides the volume slider to control the volume of each audio source. |

| No. | Component     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2   | Audio Control | <p data-bbox="411 172 790 196">Clicks to select and adjust audio control.</p> <p data-bbox="411 228 742 252"><b>HDMI1 / HDMI2 / HDMI 3 / HDMI4:</b></p> <p data-bbox="411 255 959 303">Clicks to select an audio control for HDMI 1, HDMI 2, HDMI 3, and HDMI 4 between AFV, ON, and MUTE.</p> <div data-bbox="552 330 823 483">  </div> <p data-bbox="411 496 912 544">AFV (Audio-Follow-Video): Broadcasting the source's video and audio at the same time.</p> <p data-bbox="411 549 774 572">ON: The audio is turned on (unmuted).</p> <p data-bbox="411 576 778 600">MUTE: The audio is turned off (muted).</p> <p data-bbox="411 630 494 654"><b>LINE IN:</b></p> <p data-bbox="411 657 945 705">Clicks to select an audio control for LINE IN between ON and MUTE, and audio type between stereo and mono.</p> <div data-bbox="552 732 823 885">  </div> <p data-bbox="411 898 774 922">ON: The audio is turned on (unmuted).</p> <p data-bbox="411 925 778 949">MUTE: The audio is turned off (muted).</p> <p data-bbox="411 952 888 976">Type: Select between stereo and mono audio type.</p> <p data-bbox="411 1007 467 1031"><b>PGM:</b></p> <p data-bbox="411 1034 959 1082">Clicks to select an audio control for PGM between ON and MUTE, and adjust compressor settings..</p> <div data-bbox="552 1109 819 1305">  </div> <p data-bbox="411 1318 774 1342">ON: The audio is turned on (unmuted).</p> <p data-bbox="411 1345 778 1369">MUTE: The audio is turned off (muted).</p> <p data-bbox="411 1372 940 1445">Compressor: Clicks to enable or disable the compressor function and drag the dial to adjust the threshold. The default setting is disabled.</p> |

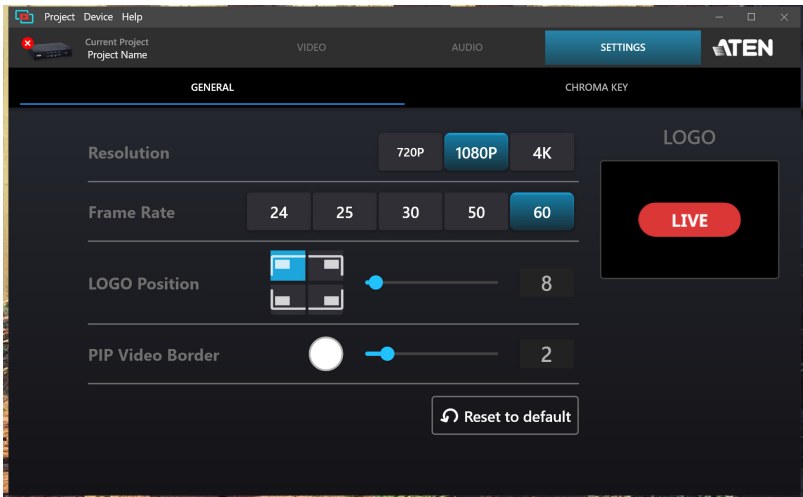
| No. | Component                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                | <p><b>LINE OUT:</b><br/>Clicks to select an audio control for LINE OUT between ON and MUTE, audio source, and adjust compressor settings.</p> <div><div>ON</div><div>MUTE</div><div>Compressor</div><div>0dB</div></div> <p>ON: The audio is turned on (unmuted).<br/>MUTE: The audio is turned off (muted).<br/>Audio Source: Selects and audio output options between PGM, LINE IN, HDMI-1, HDMI-2, HDMI-3, or HDMI-4.<br/>Compressor: Clicks to enable or disable the compressor function and drag the dial to adjust the threshold. The default setting is disabled.</p> |
| 3   | L/R Balance Control            | Clicks and hold to drag and control which side of the sound source is to be more emphasized.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 4   | PGM and LINE OUT Level Control | Slides the volume slider to control the volume of PGM and LINE OUT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

# Settings Panel

The Settings deck page is shown below:



## General



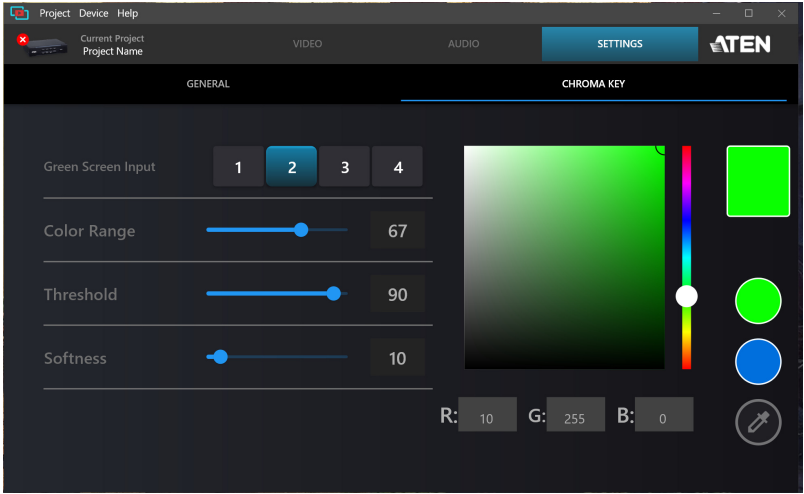
| Component  | Description                                |
|------------|--------------------------------------------|
| Resolution | Selects a resolution for the HDMI display. |
| Frame Rate | Selects a frame rate for the HDMI display. |

| Component        | Description                                                                                                                                                                                                                                                                                          |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LOGO Position    | <ul style="list-style-type: none"><li>◆ Selects a logo position for the logo to be displayed on the HDMI-enabled display.</li><li>◆ Adjusts the logo position close or further to the corner that you selected from the above logo position.</li></ul>                                               |
| PiP Video Border | <ul style="list-style-type: none"><li>◆ Selects a color for the video border to appear on the HDMI display connected to the HDMI program output port.</li><li>◆ Adjusts the thickness of the video border.</li></ul>                                                                                 |
| Reset to Default | Resets the CAMLIVE PRO 4K back to the factory settings. A warning message appears, click <b>OK</b> .                                                                                                                                                                                                 |
| LOGO             | <p>Clicks to select an image file for your logo.</p> <ul style="list-style-type: none"><li>◆ The maximum logo size is 352 x 352 pixels, the image size will be proportionally scaled down automatically to fit the logo screen.</li><li>◆ The supported image formats are PNG / BMP / JPG.</li></ul> |

## Chroma Key

Chroma key allows user to composite two HDMI sources based on a color range, it usually goes hand-in-hand with a green screen. Our ATEN OnAir Lite app removes the color screen background and fill in the area with the HDMI sources.





| Component          | Description                                        |
|--------------------|----------------------------------------------------|
| Green Screen Input | Selects a target input for the Chroma Key.         |
| Color Range        | Adjust the color range for the colored background. |
| Threshold          | Adjust the threshold for the colored background.   |
| Softness           | Adjust the softness for the colored background.    |

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## **Safety Instructions**

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### **General**

- ♦ This product is for indoor use only.
- ♦ Read all of these instructions. Save them for future reference.
- ♦ Follow all warnings and instructions marked on the device.
- ♦ Do not place the device on any unstable surface (cart, stand, table, etc.). If the device falls, serious damage will result.
- ♦ Do not use the device near water.
- ♦ Do not place the device near, or over, radiators or heat registers.
- ♦ The device cabinet is provided with slots and openings to allow for adequate ventilation. To ensure reliable operation, and to protect against overheating, these openings must never be blocked or covered.
- ♦ The device should never be placed on a soft surface (bed, sofa, rug, etc.) as this will block its ventilation openings. Likewise, the device should not be placed in a built in enclosure unless adequate ventilation has been provided.
- ♦ Never spill liquid of any kind on the device.
- ♦ Unplug the device from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- ♦ The device should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- ♦ To prevent damage to your installation it is important that all devices are properly grounded.
- ♦ Do not allow anything to rest on the power cord or cables. Route the power cord and cables so that they cannot be stepped on or tripped over.
- ♦ Position system cables and power cables carefully; Be sure that nothing rests on any cables.
- ♦ Never push objects of any kind into or through cabinet slots. They may touch dangerous voltage points or short out parts resulting in a risk of fire or electrical shock.
- ♦ Do not attempt to service the device yourself. Refer all servicing to qualified service personnel.

- ♦ If the following conditions occur, unplug the device from the wall outlet and bring it to qualified service personnel for repair.
  - ♦ The power cord or plug has become damaged or frayed.
  - ♦ Liquid has been spilled into the device.
  - ♦ The device has been exposed to rain or water.
  - ♦ The device has been dropped, or the cabinet has been damaged.
  - ♦ The device exhibits a distinct change in performance, indicating a need for service.
  - ♦ The device does not operate normally when the operating instructions are followed.
- ♦ Only adjust those controls that are covered in the operating instructions. Improper adjustment of other controls may result in damage that will require extensive work by a qualified technician to repair.

## Technical Support

### International

- ♦ For online technical support – including troubleshooting, documentation, and software updates: <http://support.aten.com>
- ♦ For telephone support, see *Telephone Support*, page iv:

### North America

|                          |                                                      |                                                                               |
|--------------------------|------------------------------------------------------|-------------------------------------------------------------------------------|
| Email Support            |                                                      | <a href="mailto:support@aten-usa.com">support@aten-usa.com</a>                |
| Online Technical Support | Troubleshooting<br>Documentation<br>Software Updates | <a href="http://www.aten-usa.com/support">http://www.aten-usa.com/support</a> |
| Telephone Support        |                                                      | 1-888-999-ATEN ext 4988<br>1-949-428-1111                                     |

When you contact us, please have the following information ready beforehand:

- ♦ Product model number, serial number, and date of purchase
- ♦ Your computer configuration, including operating system, revision level, expansion cards, and software
- ♦ Any error messages displayed at the time the error occurred
- ♦ The sequence of operations that led up to the error
- ♦ Any other information you feel may be of help

## Specifications

| Function                                             | CAMLIVE PRO 4K                                                                                                                                                                              |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Connectors</b>                                    |                                                                                                                                                                                             |
| Video In                                             | 4 x HDMI Type-A Female (Black)<br>(HDMI TMDS compatible and without the support of FRL/VRR/ALLM/eARC. Max. input video resolution up to 3840 x 2160p60 including stereo audio signals only) |
| USB Port                                             | 3.2 Gen1 USB-C Male (Black)<br><b>Note:</b> USB Type-A to USB-C and USB-C to USB-C cables included in the package.                                                                          |
| Video Output                                         | 1 x HDMI Type-A Female (PGM Video, Black)<br>1 x HDMI Type-A Female (Loop-Thru Video, Black)                                                                                                |
| Audio Inputs                                         | 1 x Unbalanced Audio via 6.35mm TRS Connector (Black)                                                                                                                                       |
| Audio Outputs                                        | 1x Unbalanced Audio via 6.35mm TRS Connector (Black)                                                                                                                                        |
| <b>Video Resolution</b>                              |                                                                                                                                                                                             |
| Video HDMI Input                                     | 720p50, 720p60, 1080p25, 1080p30, 1080p50, 1080p60, 40960 x 2160 25p/30p/60p, 3840 x 2160 25p/30p/60p, HDMI unencrypted                                                                     |
| PGM HDMI Video Output                                | 720p: 1280 x 720 25p/30p/50p/60p<br>1080p: 1920 x 1080 24p/25p/30p/50p/60p<br>2160p: 3840 x 2160 24p/25p/30p/50p/60p HDMI unencrypted                                                       |
| Uncompressed USB Video (UVC) Stream with Audio (UAC) | 720p: 1280 x 720 25p/30p/50p/60p<br>1080p: 1920 x 1080 24p/25p/30p/50p/60p<br>2160p: 3840 x 2160 24p/25p/30p                                                                                |
| <b>Audio Sampling</b>                                | 16-bit PCM Encoded Audio at 44.1KHz and 48KHz Sampling Rates                                                                                                                                |
| <b>Environmental</b>                                 |                                                                                                                                                                                             |
| Operating Temperature                                | 0 - 40 °C                                                                                                                                                                                   |
| Storage Temperature                                  | -20 – 60 °C                                                                                                                                                                                 |

| Function                            | CAMLIVE PRO 4K                                                                                                                                                                                                                                           |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Humidity                            | 0 - 80% RH, Non-Condensing                                                                                                                                                                                                                               |
| <b>Minimum Hardware Requirement</b> | PC/Mac:<br>♦CPU: Intel® i3 Dual Core 2.8Ghz or above<br>♦RAM: 4GB or above<br>♦One USB-C Interface or USB Type-A Interface                                                                                                                               |
| <b>Control</b>                      |                                                                                                                                                                                                                                                          |
| Contact In                          | RS-232 Connection via RJ45 Interface                                                                                                                                                                                                                     |
| RS-232                              | Flow Control: RTS/CTS, XON/XOFF<br>FIFO: 64 bytes<br>Baud Rate: 50bps ~921.6Kbps<br>Stop Bit: 2 Stop Bits (9600 8N2) or 1 Stop Bit (1,1.5, 2)<br>Parity: no parity<br>Signal: TxD, RxD, RTS, CTS, DTR, DSR, GND                                          |
| USB                                 | Support ATEN OnAir Lite App, App downloadable from Microsoft Store                                                                                                                                                                                       |
| <b>System Requirements</b>          | Windows 10 or above with UVC/UAC V1.1 Support<br>Mac OS X 10.13 or later with UVC/UAC Support                                                                                                                                                            |
| <b>OS Support</b>                   | OnAir Lite App for Windows 10 or above only                                                                                                                                                                                                              |
| <b>Power Consumption</b>            | DC12V:20.49W:100BTU/h<br><b>Note:</b><br>♦ The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>♦ The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. |
| <b>Physical Properties</b>          |                                                                                                                                                                                                                                                          |
| Housing                             | Metal                                                                                                                                                                                                                                                    |
| Weight                              | 1.03 kg (2.27 lb)                                                                                                                                                                                                                                        |
| Dimensions (L x W x H)              | 20.00 x 16.46 x 4.40 cm (7.87 x 6.48 x 1.73 in)                                                                                                                                                                                                          |

## **ATEN Warranty Policy**

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The warranty policy may vary by product category and region of purchase. For details, please visit ATEN's official website, select your purchase counties/regions and then go to the Support Center, or contact your local ATEN sales representative for further assistance.

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