



UC9040 StreamLIVE™ PRO
Multi-Channel AV Mixer
User Manual



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

www.aten.com

EMC Information

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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.

Warning: Operation of this equipment in a residential environment could cause radio interference.

Achtung: Der Gebrauch dieses Geräts in Wohnumgebung kann Funkstörungen verursachen.

KCC Statement

유선 제품용 / A 급 기기 (업무용 방송 통신 기기)

이 기기는 업무용 (A 급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정 외의 지역에서 사용하는 것을 목적으로 합니다.

RoHS

This product is RoHS compliant.



User Information

Online Registration

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

International	http://eservice.aten.com
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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 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.

Package Contents

- 1 UC9040 StreamLIVE™ PRO Multi-Channel AV Mixer
- 1 USB Type-C to USB Type-C Cable
- 1 USB Type-C to USB Type-A Cable
- 1 Power Adapter
- 1 User Instructions

Note: Make sure that all of the components are present and in good order. If anything is missing or was damaged in shipping, contact your dealer.

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About this Manual

This user manual is provided to help you get the most from the UC9040 unit. It covers all aspects of installation, configuration, and operation. An overview of the information found in the manual is provided below.

Chapter 1, Introduction introduces you to the Multi-Channel AV Mixer. Its purpose, features, installation considerations, and panel components are presented and described.

Chapter 2, Hardware Setup describes the steps that are necessary to quickly and safely set up your installation.

Chapter 3, ATEN OnAir PRO App & Side Menu explains the functions in the OnAir App and its side menu.

Chapter 4, ATEN OnAir PRO App & Video Mixer explains the functions in the Video Mixer deck in the OnAir App, including scene editing, media resizing/cropping and text and image overlays.

Chapter 5, ATEN OnAir PRO App & Audio Mixer explains the functions in the Audio Mixer deck in the OnAir App.

Chapter 6, ATEN OnAir PRO App & Settings explains the settings you can configure for the collaborations between the unit and the OnAir App.

Chapter 7, Quick Live-Stream Setup describes how to quickly setup your system to help you start live-streaming.

Chapter 8, Firmware Upgrade describes the firmware upgrade procedure and how the volume mixer LED behaves during the firmware upgrade.


An Appendix provides a list of safety instructions and precautions, ATEN technical support information, product specifications, and other technical information.

Note:

- ◆ Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit or any connected devices.
- ◆ ATEN regularly updates its product documentation for new features and fixes. For an up-to-date UC9040 documentation, 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 **Enter** 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 the option (on a menu or dialog box, for example), that comes next. For example, Start → Run means to open the *Start* menu, and then select *Run*.
 -  Indicates critical information.

Product Information

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	http://www.aten.com
North America	http://www.aten-usa.com

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Chapter 1

Introduction

Overview

The StreamLIVE™ PRO is a portable, all-in-one, multi-channel audio/video mixer device that integrates a 1080p video capture, video recorder, video switch, stream broadcaster, video converter, video splitter, and audio mixer into one compact box to eliminate the hassle of working with different AV equipment. The StreamLIVE™ PRO makes HDMI video sources broadcast for higher quality live stream to CDN platforms such as YouTube Live, Facebook, and Twitch.

For added convenience, the StreamLIVE™ PRO provides an intuitive app, making it easy to monitor, edit image layouts, and DVE, PiP or PbP settings. There are eight stunning DVE transitions including circle drop, window slice, polka dot, circle open, fade, heart, cross hatch and random square. The StreamLIVE™ PRO is PC and software-free, and with its well-designed control panel, it makes livestreaming operations smooth and effortless. You can even preview video and monitor audio levels before going live with your web broadcast! To get started, simply connect video/audio sources, and an Ethernet with an ATEN app-installed iPad, and you are ready to roll.

Whether you're capturing, editing or streaming, the StreamLIVE™ PRO with its ergonomic and practical design, it is flexible enough to fit all independent live streaming broadcasting environments. With a rich feature set, the StreamLIVE™ PRO addresses the challenges that independent live streaming broadcasters encounter and provides an easy-to-use solution.

Features

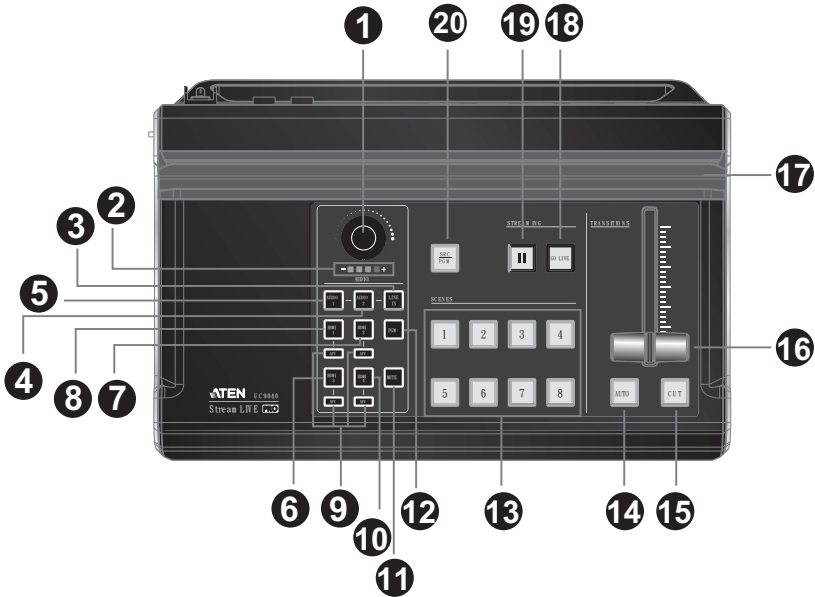
- ◆ All-in-one design to simplify streaming workflow – integrates 1080p video capture, video recorder, video switch, streaming encoder, video converter, video splitter, and audio mixer
- ◆ Professional-quality live streaming everywhere – compatible with every major platform and can livestream to two platforms at the same time from virtually anywhere
- ◆ 1080P Recording – features a media recording that can be used to record a program and save recordings directly to a connected external hard drive or flash drive via USB
- ◆ Compact mixer control panel – switching & mix between multiple video & audio sources with the help of easily identifiable luminous keys
- ◆ Intuitive and powerful app – preset up to 8 scenes with custom video layout, preview and full screen program monitoring, real-time editing, transitions in stunning DVE, PbP, PiP visual effects, and graphic and text overlays for a professional finish
- ◆ DVE (Digital Video Effect) Video Transition – including circle drop, window slice, polka dot, circle open, fade, heart, cross hatch, and random square
- ◆ Storyboard-like management – quick and smooth transitions control for professional programming during live events
- ◆ Audio management – multi-channel audio mixing with faders, meters, and balance for every input
- ◆ Fanless and optimized thermal air flow system for quiet operation
- ◆ Multitask designed handle-stand to enhance portability and ergonomic comfort angle

Requirements

- ◆ Ethernet connection
- ◆ The following iPad with iOS 11 or later
 - ◆ iPad Pro (1st gen, 12.9”)
 - ◆ iPad Pro (1st gen, 9.7”)
 - ◆ iPad Pro (2nd gen, 12.9”)
 - ◆ iPad Pro (2nd gen, 10.5”)
 - ◆ iPad Pro (3rd gen, 12.9” or later)
 - ◆ iPad Pro (3rd gen, 11” or later)
 - ◆ iPad (5th gen or later)
 - ◆ iPad Air (3rd gen or later)
 - ◆ iPad Mini (5th gen or later)
- ◆ USB Storage Device (for live-stream video recording)
 - ◆ USB 3.x compatible flash drive or mobile drive (HDD / SSD)
 - ◆ At least 32GB of free space

Components

Top View



No.	Component	Description
Audio Section (Controls the audio settings of the system)		
1	Audio Level Control	Controls the volume of the selected audio source.
2	Volume Meter	The LED reflects the controlled volume. During firmware upgrade, the LED behavior is changed. Refer to <i>Upgrading the Unit</i> on page 67 for the LED behavior during firmware upgrade.
3	Mic/Line-In Selector	Switches to the Mic/Line-In audio source. The button will light up when switched to this source.
4	Mic/Line-In Audio 2	Switches to the Mic/Line-In Audio 2 source. The button will light up when switched to this source.
5	Mic/Line-In Audio 1	Switches to the Mic/Line-In Audio 1 source. The button will light up when switched to this source.
6	HDMI 3 Audio Source	Switches to the HDMI 3 Audio Source. The button will light up when switched to this source.

No.	Component	Description
7	HDMI 2 Audio Source	Switches to the HDMI 2 Audio Source. The button will light up when switched to this source.
8	HDMI 1 Audio Source	Switches to the HDMI 1 Audio Source. The button will light up when switched to this source.
9	AFV	Audio-Follows-Video: Pressing the AFV button will light up. If the video source is selected, the source's audio will also be played.
10	HDMI 4 Audio Source	Switches to the HDMI 4 Audio Source. The button will light up when switched to this source.
11	Mute	Mutes/unmutes the audio the system is currently tuned into. When muting HDMI source 1, 2, 3, or 4, AFV will also be turned off.
12	PGM	Switches to the PGM audio source. The button will light up when switched to this source.

Video Section (controls the video settings of the system)

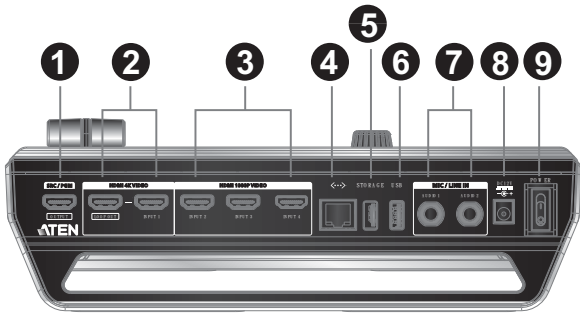
13	Scenes Selector	Selects the current stream (PGM) scene and the preview (PRV) scene. Greenly lit button indicates PRV Preview. Redly lit button indicates PGM Preview.
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Transition Control Section (switches the current stream (PGM) scene to the preview (PRV) stream and vice versa)

14	Auto (transition)	Pressing the Auto button will begin the transition after a specified time (0.3-3.0 seconds). Go to the Setting Deck and refer to page 46 on how to modify this specified time. Press and hold for 3 seconds to enter <i>Quick Mode</i> . Refer to <i>Edit the video scenes in scene editor, tune audio settings in the audio mixer deck, adjusting audio delays in the settings deck, etc. Tap Apply to apply the changes.</i> on page 64 for more information.
15	Cut (transition)	The transition happens immediately when you press the Cut button. Press and hold for 3 seconds to enter <i>Quick Mode</i> . Refer to <i>Edit the video scenes in scene editor, tune audio settings in the audio mixer deck, adjusting audio delays in the settings deck, etc. Tap Apply to apply the changes.</i> on page 64 for more information.

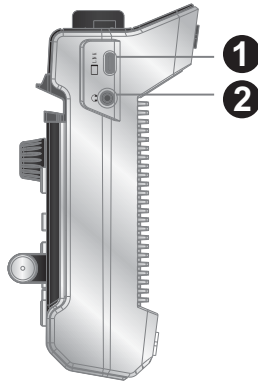
No.	Component	Description
16	T-Bar (transition)	Slide the T-Bar to start the transition. The scene transition speed depends on how fast you slide the bar. Sliding the T-bar all the way to one end will complete the transition. You can create different effects by sliding it slowly, quickly or even hold it half way.
17	iPad Stand	Allows the iPad to sit in.
18	GoLive	Press this button to <i>start</i> streaming and/or recording. Press again to <i>stop</i> .
19	Pause Stream	Press this button to <i>stop</i> streaming.
20	SRC / PGM View Selector	Pressing the button will switch video source between HDMI source 1, HDMI source 2, HDMI source 3, HDMI source 4, and PGM.

Rear View



No.	Component	Description
1	SRC / PGM Output Port	Programmed (PGM) Video output.
2	4K HDMI Loop Out Port/4K HDMI 1 Input Port	An 4K HDMI 1 Input source and a 4K HDMI Loop Out.
3	FHD HDMI 2 Input Port/HDMI 3 Input Port/HDMI 4 Input Port	HDMI 1080P Video Input that can take HDMI 1080P Video Input 2, 3, or 4. To select Input 2, 3, or 4, go to <i>Media</i> on page 34.
4	Ethernet Port	For Internet connection.
5	USB 3.1 Gen1 Type-A Port (storage only)	For livestream recording.
6	USB 3.1 Gen1 Type-A Port	For firmware upgrade.
7	MIC In/Line In Audio Ports	Connect MIC or audio sources for additional audio effects.
8	Power Jack	Powers the unit.
9	Power Switch	Switch the power on the unit.

Side View



No.	Component	Description
1	iPad Link Port (Data only)	Connects to the iPad for ATEN OnAir app.
2	3.5mm Audio Monitor Jack	Sound output for the preview scene (the greenly lit scene).

Chapter 2

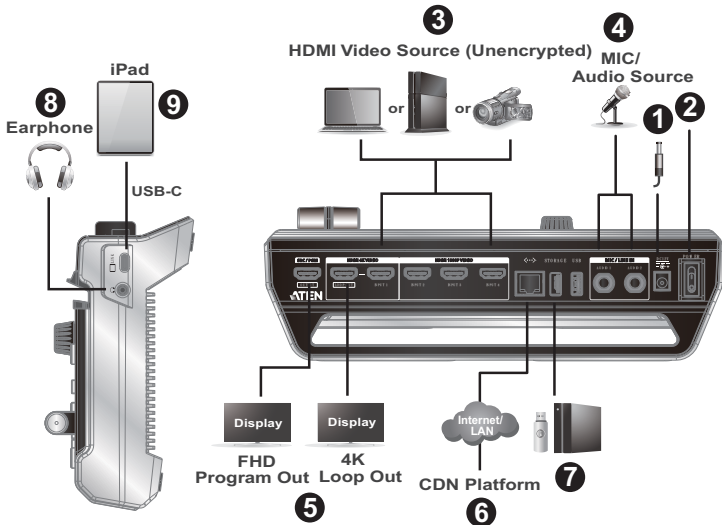
Hardware Setup



Please review the safety information regarding the placement of this device in *Safety Instructions*, page 71.

Connecting the StreamLIVE™ PRO Unit

Follow the steps below to connect the StreamLIVE™ PRO to an HDMI source and the host.



1. Plug the power adapter into the StreamLIVE™ PRO's Power Jack and into an AC power source.
2. Turn on the Power Switch on the StreamLIVE™ PRO.
3. Connect the HDMI sources (e.g. PC, gaming console or video recorder)¹.
4. Connect to microphone or line-in audio sources.

5. (Optional) Connect the SRC/PGM Output Port and the 4K HDMI Loop Out Port if necessary:
 - a) Connect an HDMI display to the SRC/PGM Output Port.
 - b) Connect an HDMI display to the 4K HDMI Loop Out Port.
6. Connect an Ethernet cable for Internet connection².
7. (Optional) If you wish to record your live-stream, connect a USB storage device and refer to *Recording Live-stream Video (External Storage)* on page 54 for more information. Or, you can connect a UAC audio interface (e.g. USB Mic).
8. (Optional) Connect an earphone to receive sound output for the preview scene.
9. Connect your iPad to the iPad Link Port for control purpose and power supply. Refer to *Connecting iPad* on page 11 for more information.
10. (Optional) Place your iPad onto the iPad stand as shown in the diagram below³.



-
- Note:**
1. The HDMI sources must be unencrypted.
 2. Use the connected iPad to configure further network settings for live-streaming.
 3. iPad placed on the unit is recommended for viewing only. Hand holding your iPad is still recommended for control.
-

Connecting iPad

Lightning Connector on iPad

For iPads having lightning connectors, simply connect the Apple Lightning USB 3 Adapter (not included, may need additional purchase) and the USB-C to USB-A cable (included in the package) serially between the StreamLIVE™ PRO and your iPad.

If you wish to have the charging function, connect your lightning charging cable to the Apple Lightning to USB 3 Adapter.

USB-C Connector on iPad

For iPads having USB-C connectors (e.g. iPad Pro Gen 3), simply connect the USB-C to USB-C cable (included in the package) between your iPad and the StreamLIVE™ PRO.

If you wish to have the charging function, connect the USB-C to USB-C cable (included in the package) between your iPad and the StreamLIVE™ PRO.

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Chapter 3

ATEN OnAir PRO App & Side Menu

ATEN OnAir PRO Application

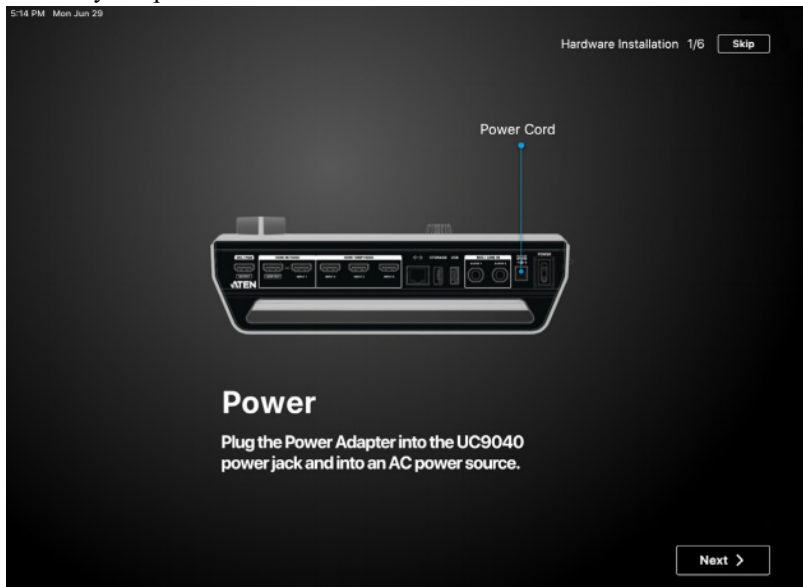
ATEN OnAir PRO app acts as the central controller for UC9040. The app's design is a control panel where you can monitor program results, edit scenes, setup video and audio stream settings, stream recording settings, etc.

Download the ATEN OnAir PRO app from App Store and install it on your iPad.

The icon looks like the one below:

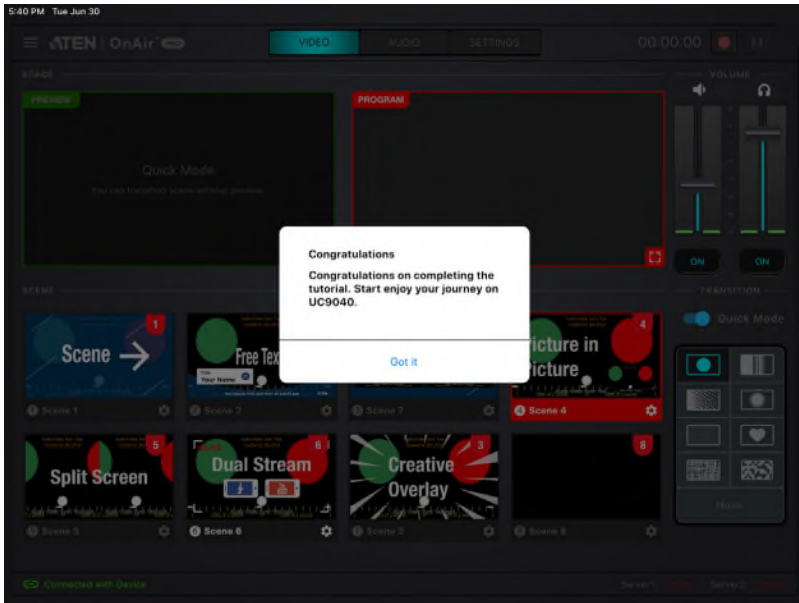



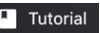
Tap to open the ATEN OnAir PRO application and the tutorial will start for the first time you open it.



Follow the on-screen instruction as it guides you through the basics of using the ATEN OnAir PRO app with UC9040.




When finished, a message will be shown:




To run the tutorial again, tap the  icon on the top left corner for the side menu and tap .

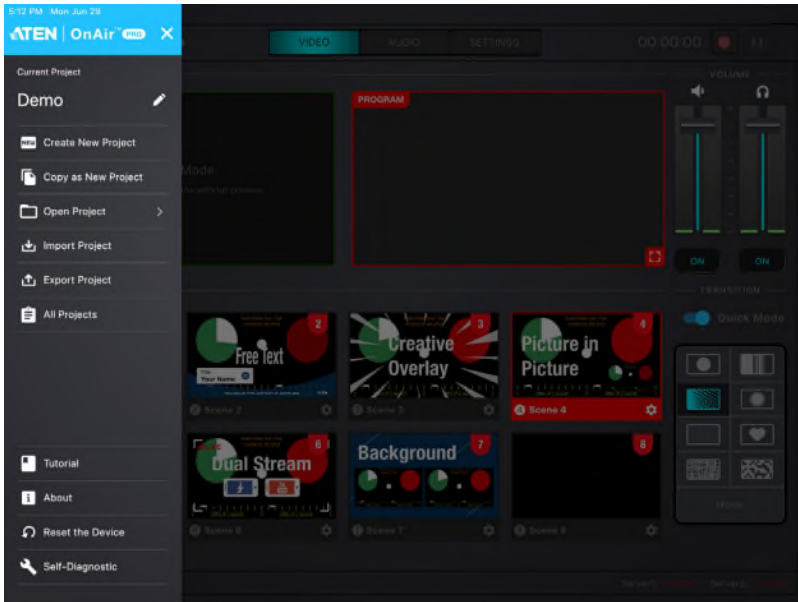
Page Components




No.	Component	Description
1	Side Menu	Tap the  icon for the side menu. Refer to <i>Side Menu</i> on page 16 for more details.
2	Deck Selector	Tap to select the desired configuration deck. Three decks are available: Video Mixer, Audio Mixer and Setting.
3	GoLive	Tap  to start streaming. Tap  to pause streaming. The timer on the left shows how long you have been streaming for.
4	Deck Content	The content depends on the selected deck.
5	iPad Link Status	Displays the link status between your iPad and the StreamLIVE™ PRO.
6	Network Traffic Status	Displays the network traffic status.

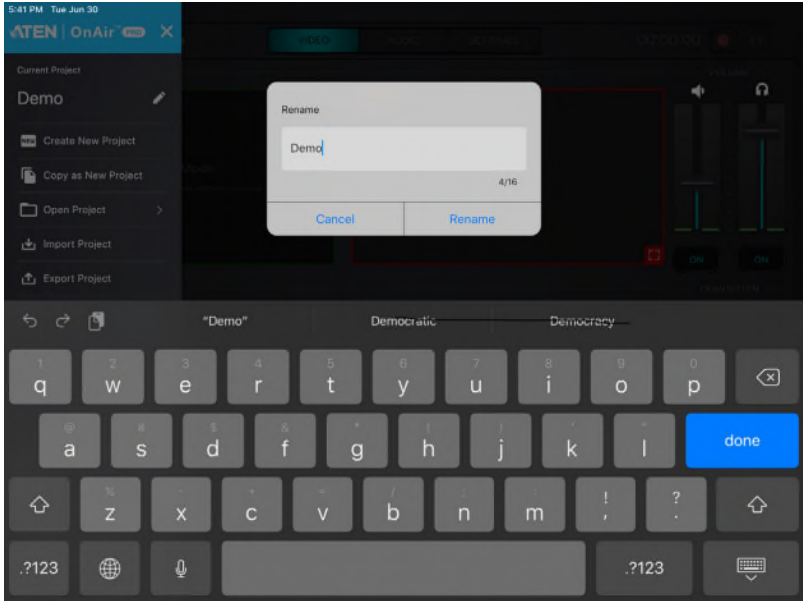
Side Menu

A side menu is available for project management, tutorial, app information and self-diagnostic function. For the side menu, tap the  icon on the top left corner.



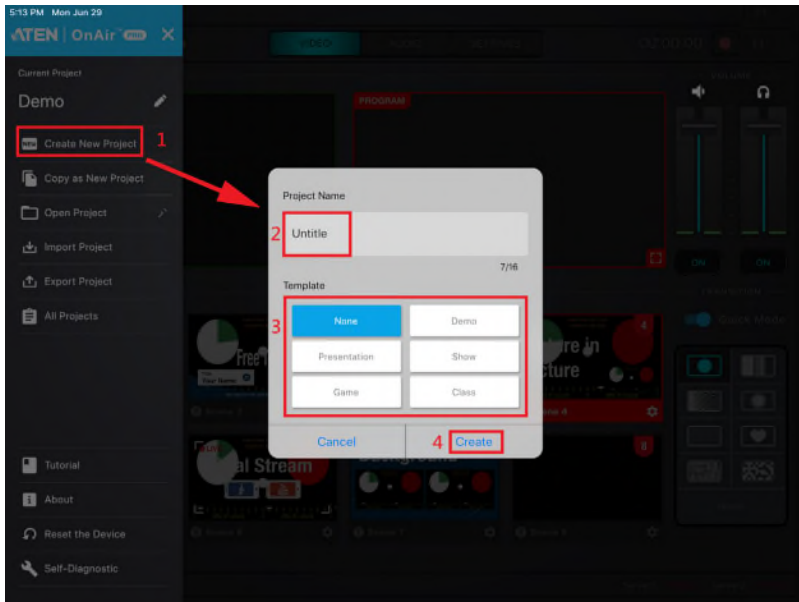
Current Project

Tap the  icon to edit the name of your project:



Create Project

1. Tap Create New Project.



2. Enter a name for the project.

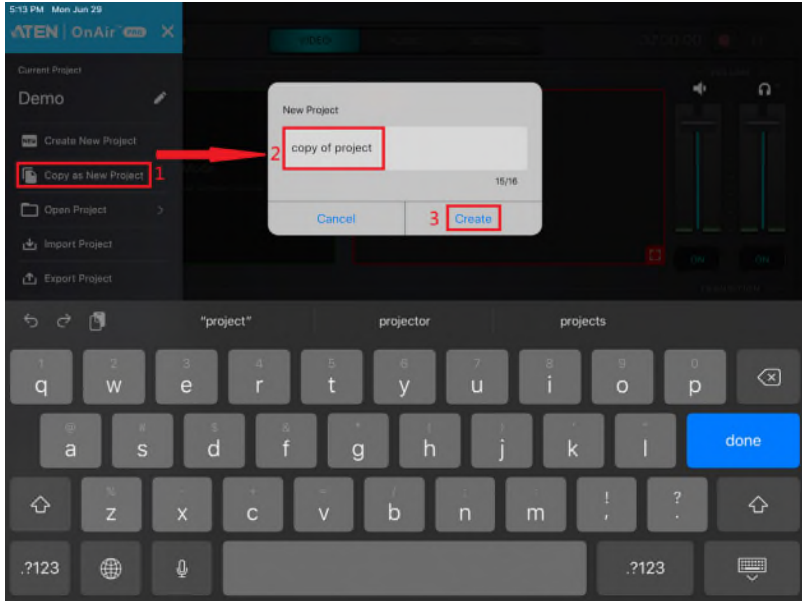
3. (Optional) Select a template. Templates are project settings pre-configured for you if you are unsure how your new project should be.

4. Tap **Create**.

Copy as New Project

If you like the settings of your current project when you are to create a new one, you can use this function copy the settings.

1. Tap **Create New Project**.

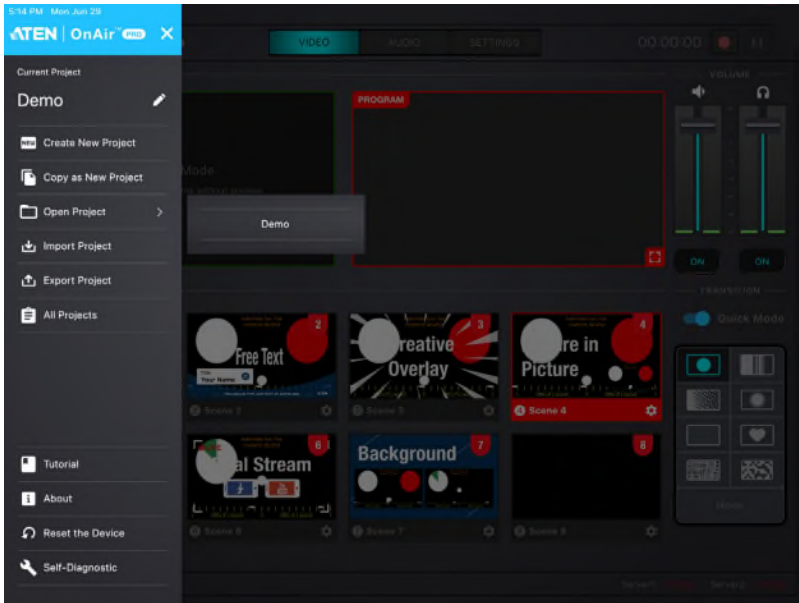


2. Enter a name for the project.

3. Tap **Create**.

Open Project

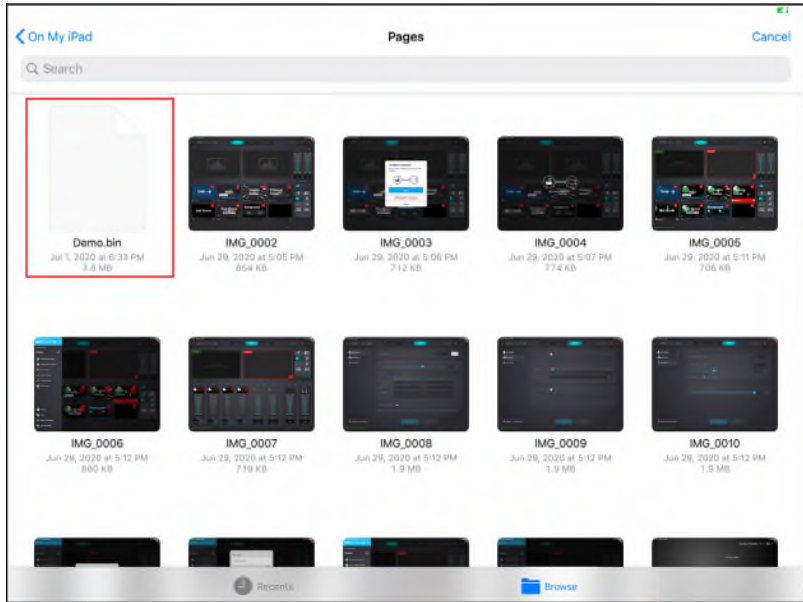
Tap **Open Project** for a list of available projects. An example is shown:



Tap to select the project you wish to use.

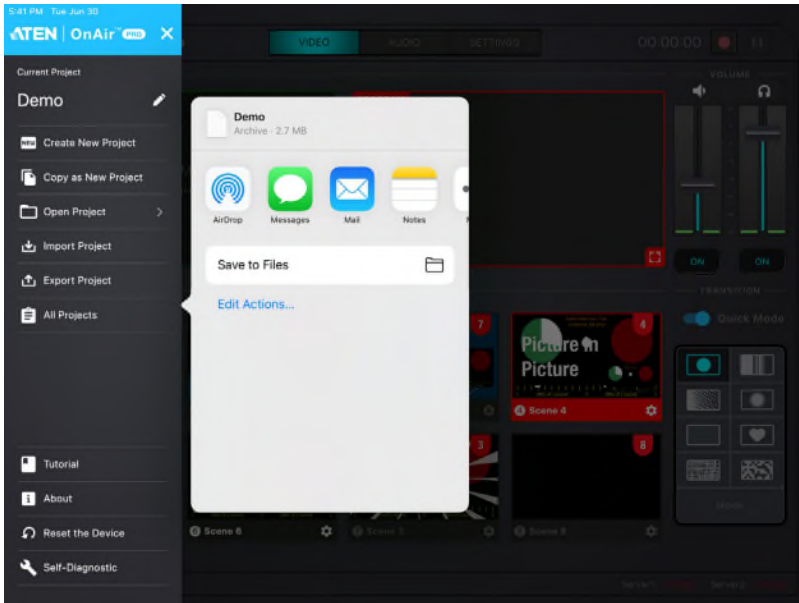
Import Project

Tap **Import Project** to import a project to the ATEN OnAir PRO app. Please select a bin file as highlighted below, ATEN OnAir PRO app cannot import image file.



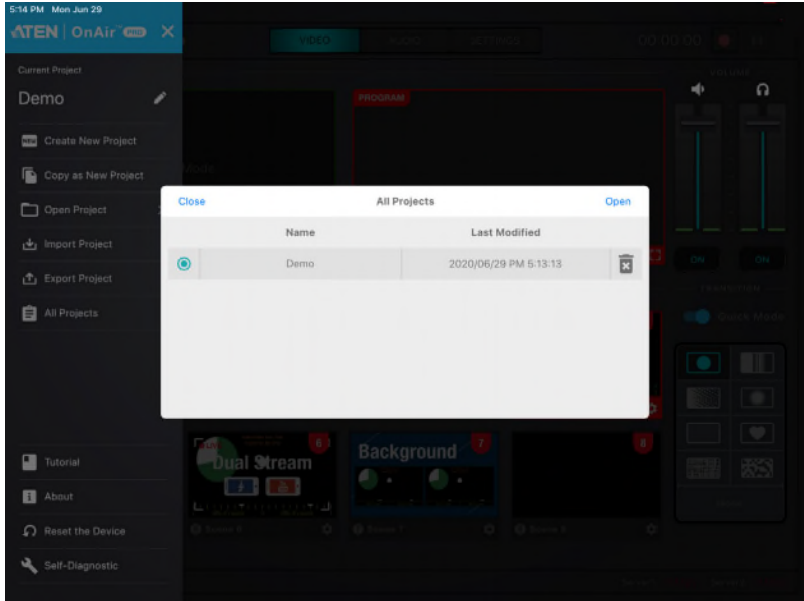
Export Project

Tap **Export Project** to export and share your projects.



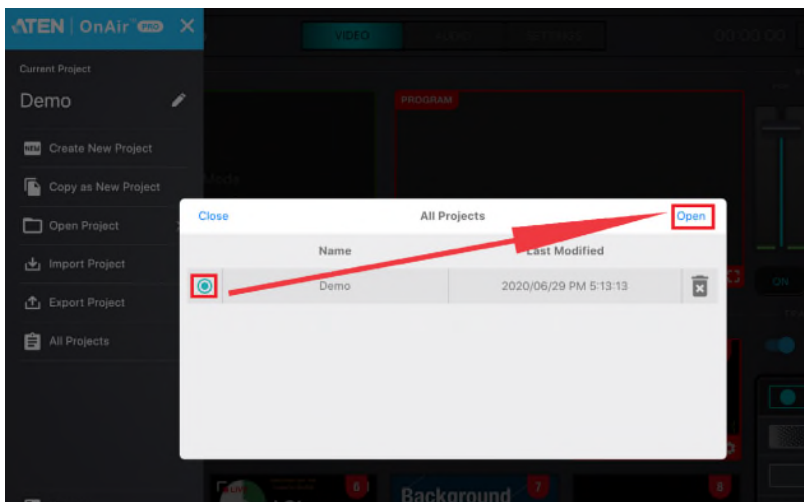
All Projects

For information of the available projects, tap **All Projects**. An example is shown:

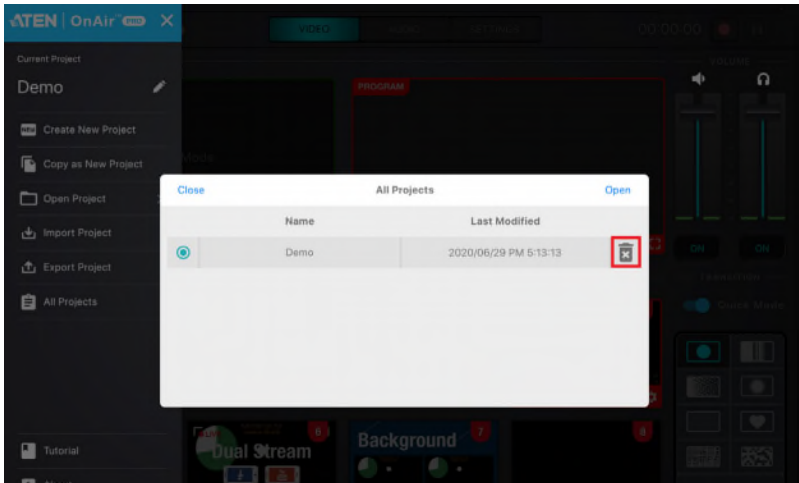


You can also open or delete the projects here.

To open a project, tap to select a project and tap **Open**. An example is shown:



To delete a project, tap the garbage can icon corresponding the project. An example is shown:



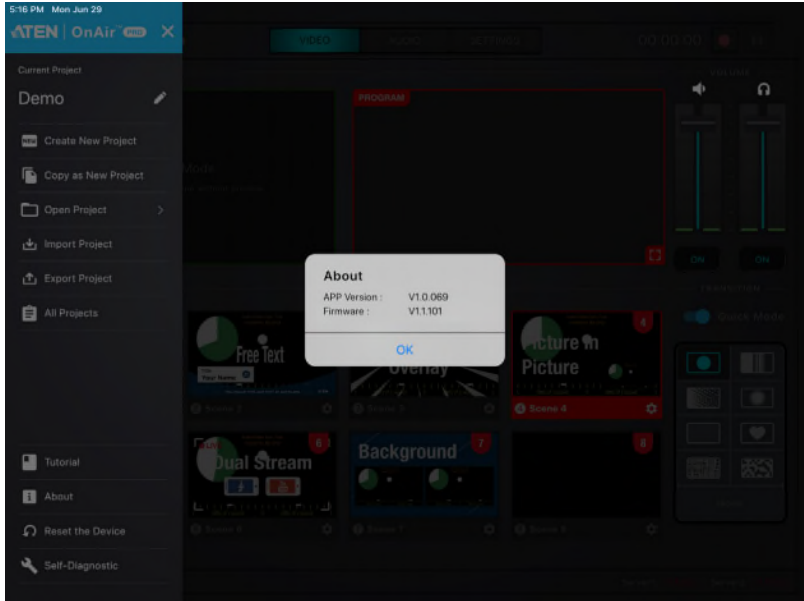
Tutorial

Tap **Tutorial** to go through the tutorial again.



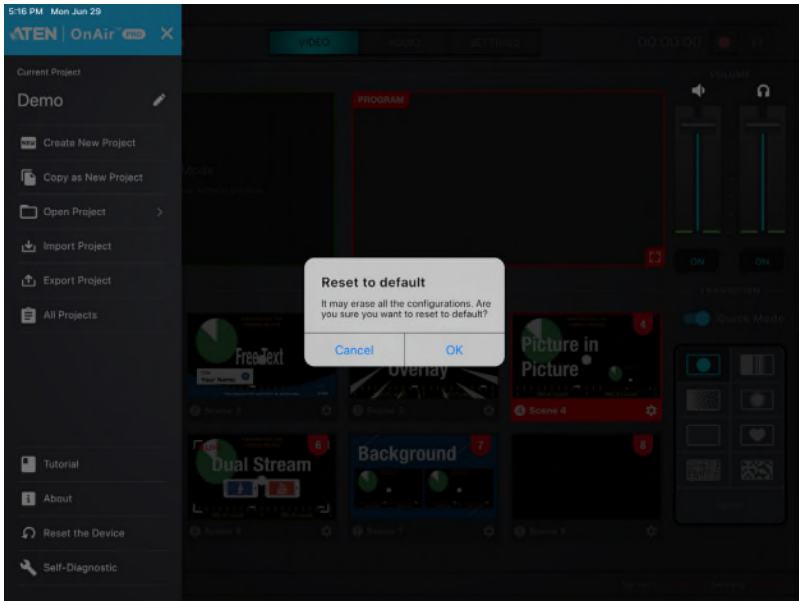
About

Tap **About** for information of the ATEN OnAir PRO app. An example is shown below:



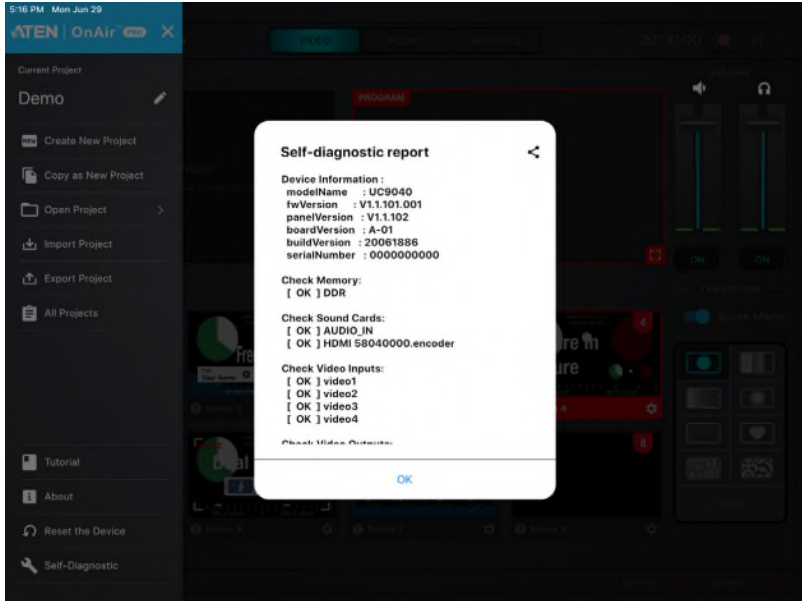
Reset the Device

Tap **Reset the Device** to reset the StreamLIVE™ PRO to its factory default settings. A warning message below appears and tap **OK**.



Self-Diagnostic

Tap **Self-Diagnostic** to self-diagnose for a report. An example is shown:



You can tap the ↶ icon to share the report.

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Chapter 4

ATEN OnAir PRO App & Video Mixer


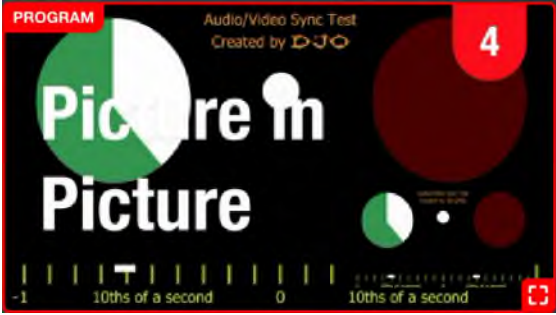



Video Mixer

The video mixer page allows you to preview videos of PRV and PGM, adjust MIC and PGM volume, scene selection and editing, and transition control.

The components of the page is shown below:





No.	Component	Description
1	PRV Preview	The preview scene.



No.	Component	Description
2	PGM Preview	<p>The program scene, or the on-air video output of the system.</p> <p>You can tap  on the bottom right-hand corner or tap on the scene twice to view the video source in full screen mode. An example is shown below:</p>  <p>Tap the  BACK icon on the top left-hand corner or tap the scene twice to return to the previous page.</p>
3	Volume Control	Tap and drag the volume slider to adjust PGM and earphone volume.
4	Scene Selector	<p>8 scenes are shown here.</p> <p>Green outline scene = PRV Preview.</p> <p>e.g. </p> <p>Red outline scene = PGM Preview.</p> <p>e.g. </p> <p>Tap a scene to put the scene into the PRV Preview section. Tap and hold a scene to re-order the scene sequence. To put the scene in PRV Preview to PGM Preview, use the Transition Control (explained below).</p>

No.	Component	Description
5	Scene Editor	You can configure each individual scenes by tapping this icon. Refer to <i>Scene Editor</i> on page 33 on how to edit each scene.
6	Transition Control	Controls the switching between the current stream (PGM) scene and the preview (PRV) stream. Refer to <i>Transition Control</i> on page 31 on how to use this function.









Transition Control

To enable Quick Mode, Tap  to start Quick Mode (.

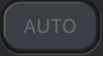
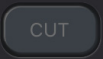
During Quick Mode, PRV preview disappears and you can tap any of the scenes to broadcast the scene as the PGM preview.

To disable Quick Mode, Tap  again to exit Quick Mode (.


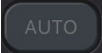
There are eight DVE switching effects for the transition control.

No.	Component	Description
1		Circle Drop
2		Window Slice
3		Polka Dot
4		Circle Open
5		Fade (Default)
6		Heart
7		Cross Hatch
8		Random Square

Transition Control when the Quick Mode is Disabled

Component	Description
	Tapping the Auto button will begin the transition after a specified time (0.3-3.0 seconds). Go to the Setting Deck and refer to page 46 on how to modify this specified time.
	Tapping the Cut button and the transition happens immediately.

To set a DVE switching effect for the PGM preview, do the following:

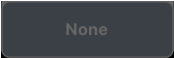
1. Select a DVE switching effect, the icon lights up .
2. Tap the **Auto**  button.


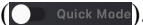
Transition Control when the Quick Mode is Enabled

To set a DVE switching effect for the PGM preview, do the following:


1. Select a DVE switching effect, the icon lights up.
2. Tap on a scene of your choice from the Scene Selector to enable the selected DVE switching effect after the specified time (0.3-3.0 seconds). Refer to page 46 on how to modify this specified time.

If you do not want any DVE switching effect for the PGM preview, do the following:

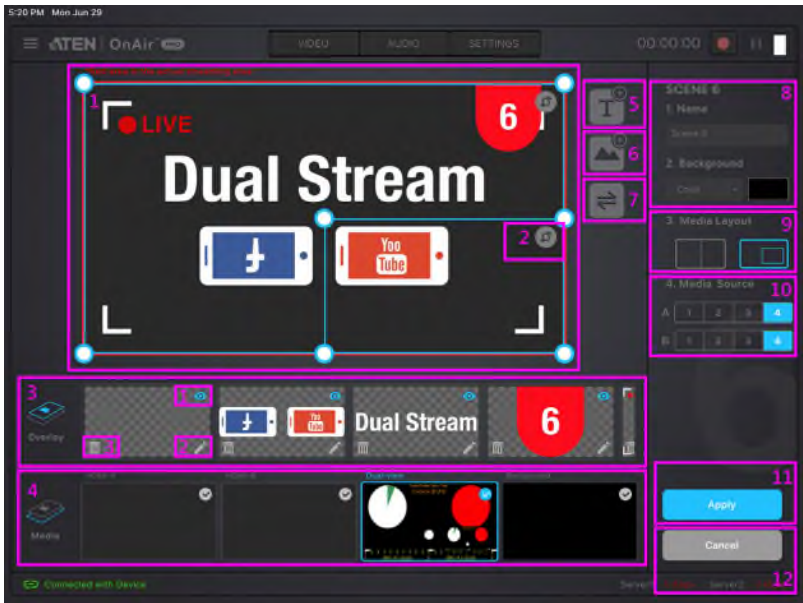
1. Select , the icon lights up.
2. Tap on a scene of your choice from the Scene Selector to instantly broadcast the selected scene as the PGM preview.

To disable Quick Mode, Tap  again to exit Quick Mode (.

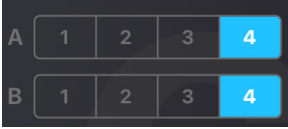

Scene Editor

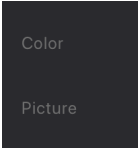
When you tap the  icon under a scene in the scene selector region, you can start editing the scene's display.

An example is shown below:



No.	Component	Description
1	Scene Display	This region is how this scene will be displayed. You can configure the components within the region.
2	Resize/Crop tool	Tap to resize/crop the selected item. Refer to <i>Resize/Crop Tool</i> on page 36 on how to use this function.
3	Overlay	Edit overlay in this region. You can Delete , Edit , and Show/Hide Overlay . <ol style="list-style-type: none"> 1. Show/Hide Overlay: Tap to show or hide 2. Edit: Tap to edit 3. Delete: Tap to delete You can also re-order the overlays to determine which overlay is to be displayed on top. Refer to <i>Re-order the Overlays</i> , page 39 for more details.

No.	Component	Description
4	Media	<p>Select the source(s) and how the source(s) are laid out for the scene.</p> <ol style="list-style-type: none"> HDMI-A: Display an input source between HDMI 1, HDMI 2, HDMI 3, and HDMI 4 input sources. HDMI-B: Display an input source between HDMI 1, HDMI 2, HDMI 3, and HDMI 4 input sources.  <ol style="list-style-type: none"> Dual View: Dual View Mode (Picture-in-Picture or Picture-by-Picture). Background: Plain Background.
5	Add Text Overlay	<p>Tap this icon to add a text overlay. Refer to <i>Add/Edit Text Overlay</i> on page 38 below for more information.</p> <p>To edit the location and size of the overlay, select the overlay in the “Overlay” region and configure in the “Scene Display” region.</p> <p>The added overlay will appear in the “Overlay” region.</p> <p>Up to 30 text overlays (layers) are support per scene.</p>
6	Add Image Overlay	<p>Tap this icon to add an image overlay.</p> <p>Tapping  allows you to add an Image Overlay. iPad will flip to the Photos page for you to select an image. Select the image and tap OK.</p> <p>To relocate, tap and hold the overlay to drag.</p> <p>To resize, refer to <i>Resize/Crop Tool</i> on page 36.</p> <p>The added overlay will appear in the “Overlay” region.</p> <p>Up to 5 image overlays (layers) are support per scene.</p>
7	Switch Video Source (Dual-View)	<p>During dual-view, tapping this button switches video source position between 1 and 2.</p>

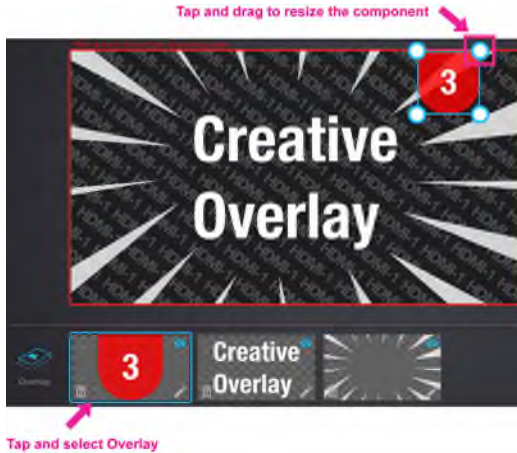
No.	Component	Description
8	Scene Information	<p>This region displays the scene name and background. Tap the Name field to edit.</p> <p>Tap the Background field to select between Color or Picture.</p> 
9	Media Layout	<p>Tap to select the preferred dual-view (Picture-in-Picture or Picture-by-Picture) layout.</p> <p>You can also resize the dual-view.</p>
10	Media Source	<p>HDMI-A: Select an input source between HDMI 1, HDMI 2, HDMI 3, and HDMI 4 input sources to be displayed on HDMI-A.</p> <p>HDMI-B: Select an input source between HDMI 1, HDMI 2, HDMI 3, and HDMI 4 input sources to be displayed on HDMI-B.</p>
11	Apply	Tap this button to apply the configuration into this scene.
12	Cancel	Tap this button to cancel all configurations made in this page.

Resize/Crop Tool

This section describes how to resize or crop any of the components in the “Scene Display” region.

Resize

To resize any component, tap the component (overlay or media) and a resize tool will be visible on the “Scene Display” region. Examples are shown below:



Tap and hold to drag the resize tool to resize the component.

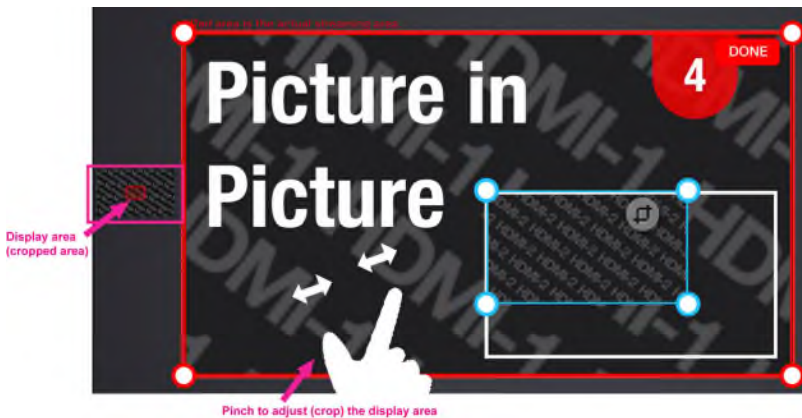
Crop (Media Only)

To resize a media, tap the media. An example is shown:



Tap the Resize/Crop Tool to start the tool.

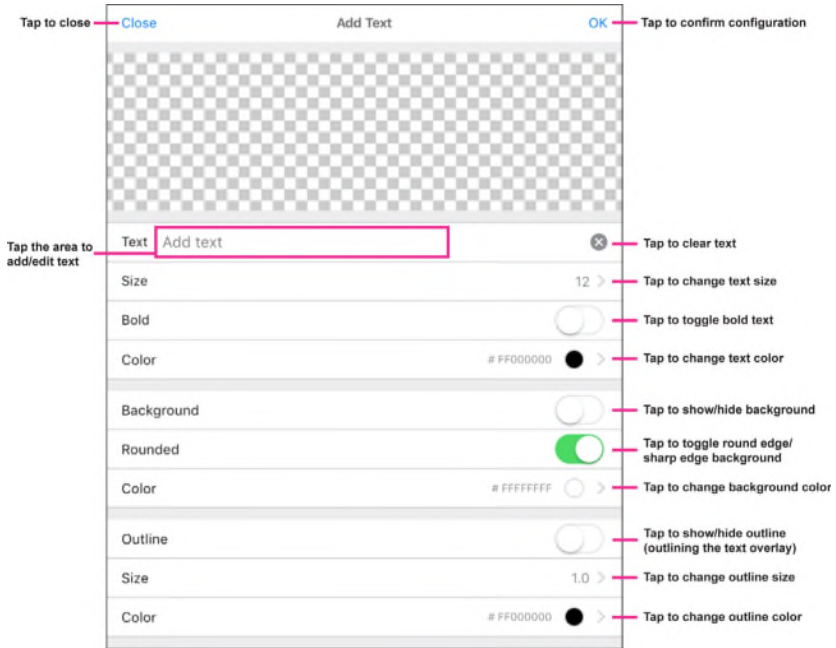
Pinch your finger inward or outward to crop. A small box is on the left of the “Scene Display” region to show the display area (cropped area).



When completed, tap **DONE** on the top right corner.

Add/Edit Text Overlay

Tapping **T** allows you to add a Text Overlay to the scene. A pop-up configuration page and its description is shown below:

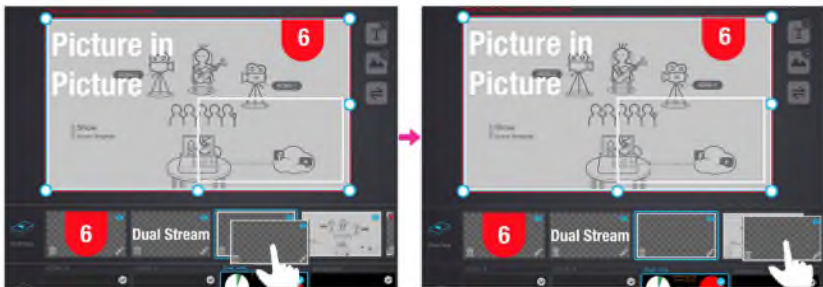
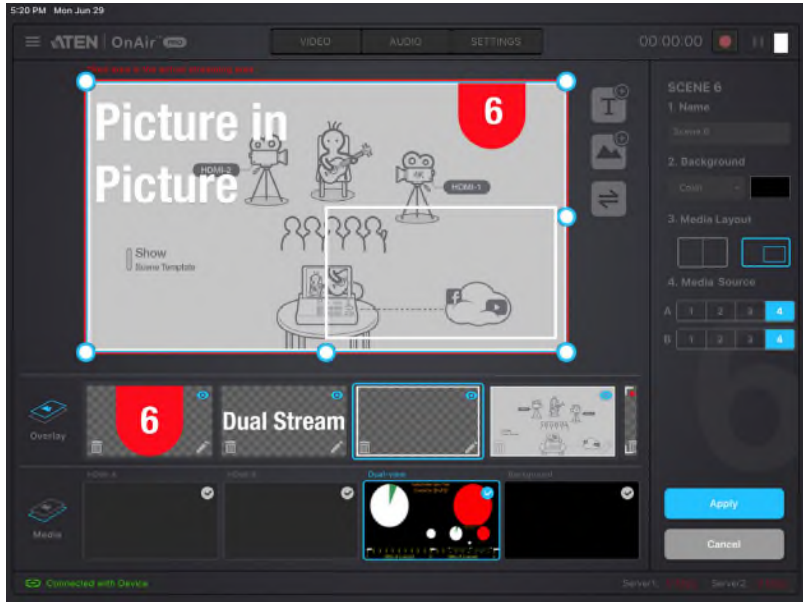


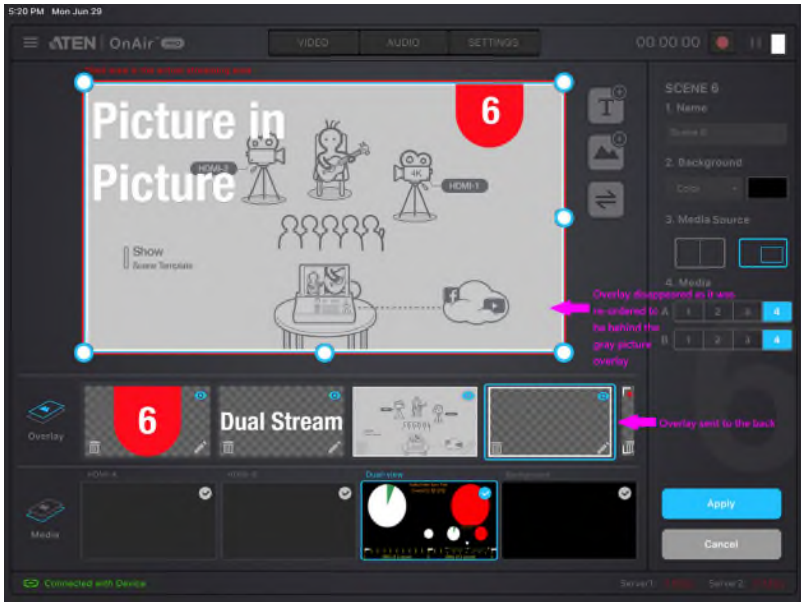
When completed, tap **OK** to save the configuration and return to the previous screen.

To edit the location and size of the overlay, select the overlay in the “Overlay” region and configure in the “Scene Display” region.

Re-order the Overlays

To re-order the overlays, tap and hold the overlay you wish to re-order. The overlay can then be dragged. You can drag the overlay to the place you wish it to be placed within the Overlay region. An example is shown:




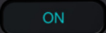





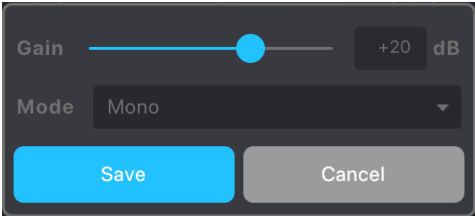


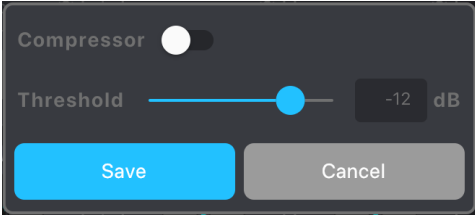

Chapter 5 ATEN OnAir PRO App & Audio Mixer

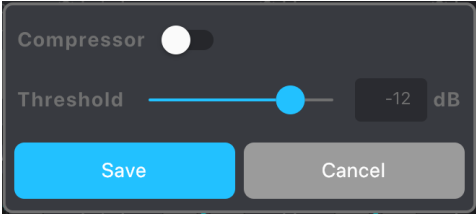

Audio Mixer

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



No.	Component	Description
1	Audio Level Control	<p>Slide the volume slider to control the volume of each audio source.</p> <p> : The audio is turned off (muted)</p> <p> : The audio is turned on (unmuted)</p> <p>Tap On to turn on/off the sound for the source.</p>

No.	Component	Description
2	HDMI 1, 2, 3, and 4 Audio Control	 Audio-Follows-Video ON: Broadcasting the source's video will also play the source's audio.  ON: The audio is turned on (unmuted).  OFF: The audio is turned off (muted).
3	MIC Gain Control	<p>You can adjust the MIC Gain settings here:</p>   <p>Tap the  to adjust the options.</p>
4	L/R Balance Control	Tap and hold to drag and control which side of the sound source is to be more emphasized.
5	Master/PGM Level Control	Slide the volume slider to control the volume of Master/PGM.
6	Master/PGM Compressor	<p>You can adjust the Master/PGM Compressor here:</p>  <p>Tap  to enable/disable the compressor function and drag the dial to adjust the threshold.</p>
7	Earphone Level Control	Controls the volume level of the earphone.

No.	Component	Description
8	Earphone Compressor	<p>You can adjust the Earphone Compressor here:</p>  <p>Tap  to enable/disable the compressor function and drag the dial to adjust the threshold.</p>

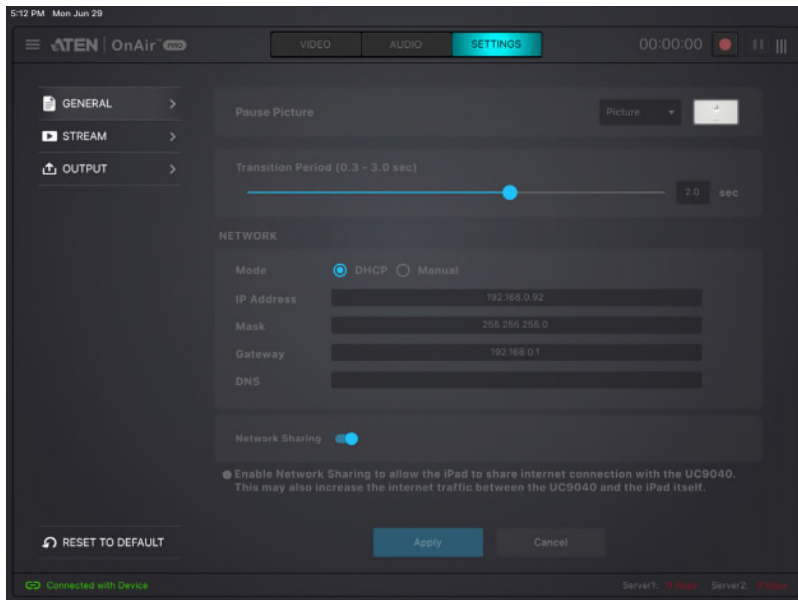
This Page Intentionally Left Blank

Chapter 6

ATEN OnAir PRO App & Settings

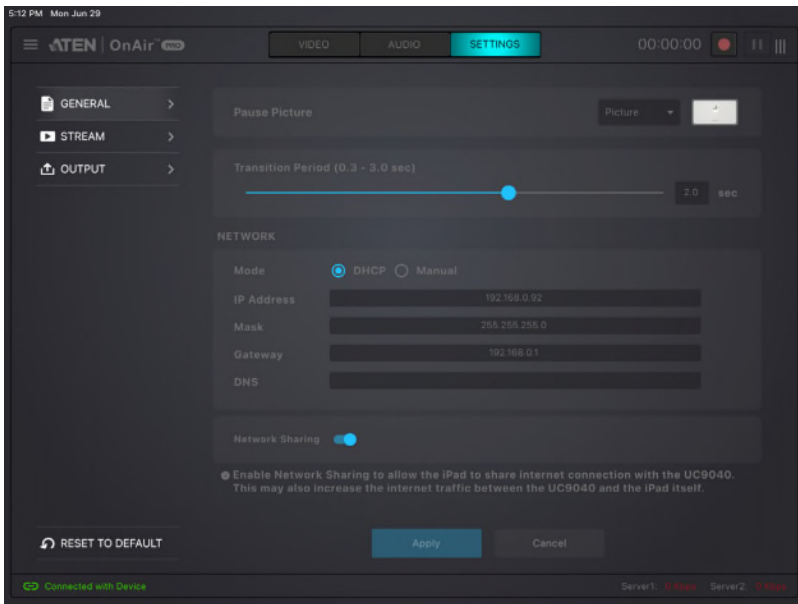
Settings

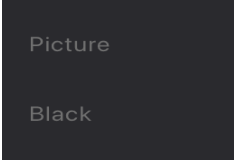
The Setting deck page is shown below:



If you have configured a settings, **Apply** button will light up. Click it to apply the settings.

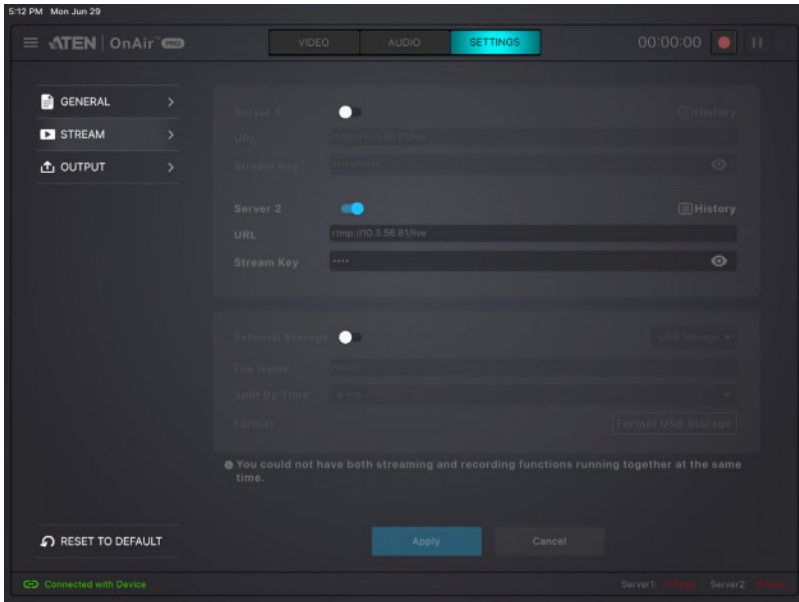
General

























Component	Description
Pause Picture	<p>Pause picture is the display when the streaming is paused. You can select black, the pause logos, or upload your own custom logo.</p> <div style="text-align: center;">  </div>
Transition Period	<p>This is the scene transitioning delay for the Auto button (on the app or on the unit). Choose between 0.3 and 3 seconds. (Refer to <i>Transition Control</i> on page 31 for the Auto button behavior)</p>

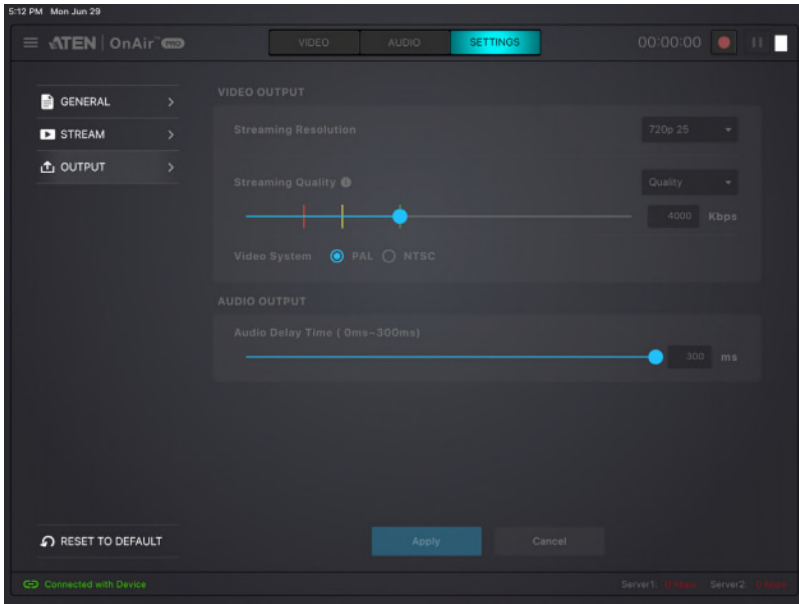
Component	Description
Network Settings	<p>Choose your preferred network configuration methods.</p> <p>Mode:</p> <ul style="list-style-type: none"> ◆ DHCP: The network automatically assigns IP address and the corresponding fields. ◆ Manual: If you are in a place where you are unable to utilize the DHCP method, you will need to get the settings, possibly from IT, and input them into each field here manually. <p>Network Sharing: Enable to allow the iPad to share internet connection with the StreamLIVE™ PRO. This may also increase the internet traffic between the StreamLIVE™ PRO and the iPad itself.</p>

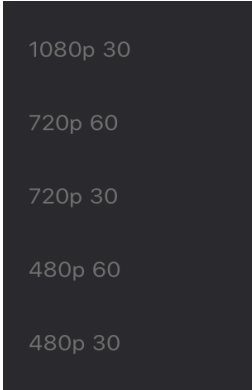
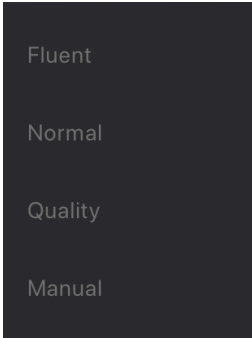
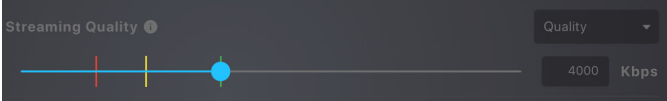
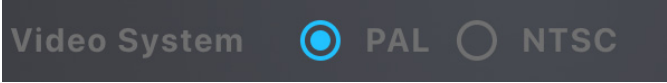
Stream



Component	Description						
Stream Connection Settings	<p>Configure live-stream and external recording information here:</p> <p>Server 1 & 2:</p> <p>: disable stream.</p> <p>: enable stream.</p> <p>You can stream to two platforms simultaneously* if you enable both Server 1 & 2.</p> <p>For the stream key field, an eye icon will be shown. Tap to toggle between  and :</p> <p> represents invisible stream key.</p> <p> represents visible stream key.</p> <p>An example of visible stream key is shown:</p> <div data-bbox="355 587 909 647" style="border: 1px solid black; padding: 5px; background-color: #333; color: white; display: flex; justify-content: space-between; align-items: center;"> Stream Key apapapapapap  </div> <p>Tap  History to select a previous keyed-in URL and Stream Key.</p> <div data-bbox="377 707 887 831" style="border: 1px solid black; padding: 5px; background-color: #eee;"> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: left;">URL</th> <th style="width: 50%; text-align: left;">Stream Key</th> </tr> </thead> <tbody> <tr> <td><input type="radio"/> rtmp://</td> <td> </td> </tr> <tr> <td><input type="radio"/> rtmp://10.3.56.81/live</td> <td>.....  </td> </tr> </tbody> </table> </div> <p>If you wish to paste a copied stream key into the field, make sure it is visible .</p> <p>URL and Stream Key: Obtain the URL and Stream Key from the platform(s) you wish to livestream on and put them into their corresponding fields.</p> <p>An example URL and Stream Key is shown in <i>Example Live-stream URL and Stream Key (Facebook)</i> below.</p> <p>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 guide / manual.</p> <p>Record Live-stream Video</p> <p>If you wish to record the video live-stream as a video output*, you can enable the External Storage (). For more details on setting up your live-stream video recording, refer to <i>Recording Live-stream Video (External Storage)</i> on page 54.</p> <p>Note: A maximum of 2 stream outputs are allowed: a) 2 streams, b) 1 stream and 1 recording, c) 1 stream, or d) 1 recording</p>	URL	Stream Key	<input type="radio"/> rtmp://	 	<input type="radio"/> rtmp://10.3.56.81/live  
URL	Stream Key						
<input type="radio"/> rtmp://	 						
<input type="radio"/> rtmp://10.3.56.81/live  						

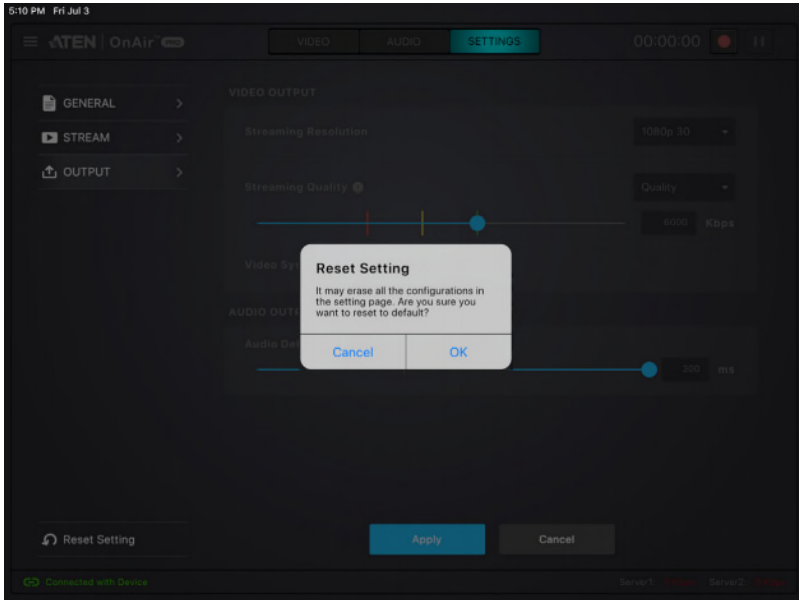
Output



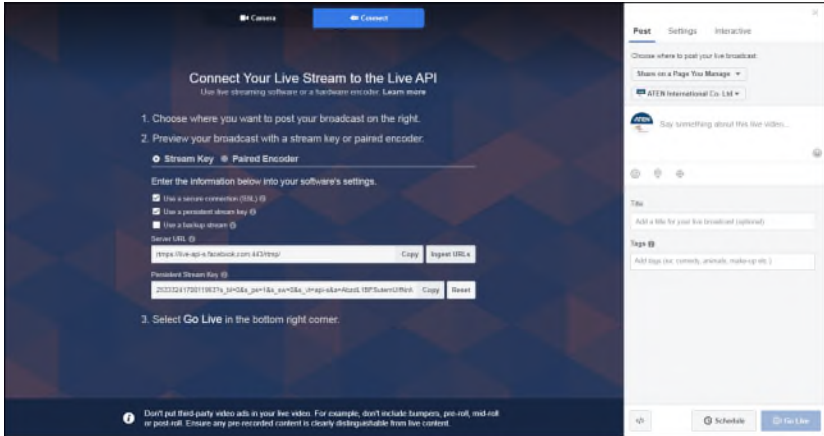
Component	Description
Video Output	<p>Streaming Resolution: Select your stream resolution from one of the following:</p>  <p>Streaming Quality: Select the quality from one of the following.</p>  <p>If manual is selected, the quality slider will light up and you can tap and drag the slider to a desired stream quality.</p>  <p>Video System: Click to select the video system of your choice.</p> 
Audio Output	<p>Audio Delay Time: If you are experiencing audio delays (due to network or other reasons), you can adjust this slider, in milliseconds, to sync the audio with the video.</p>

Reset Settings

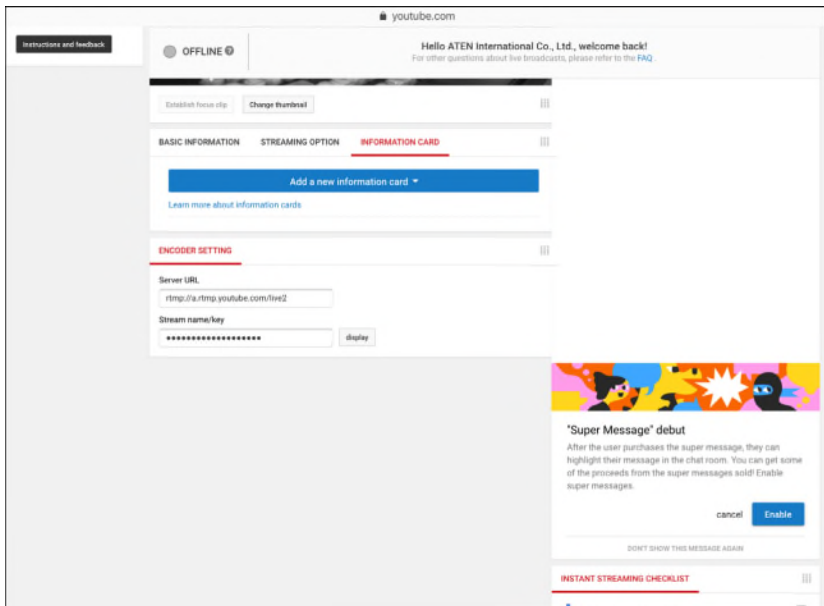
Tap to reset the configurations you have made to this device's settings page.

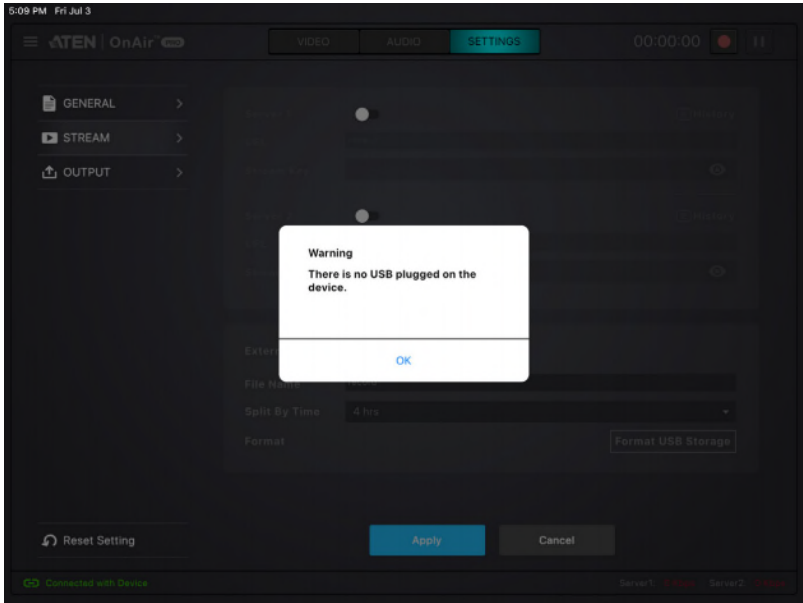


Example Live-stream URL and Stream Key (Facebook)

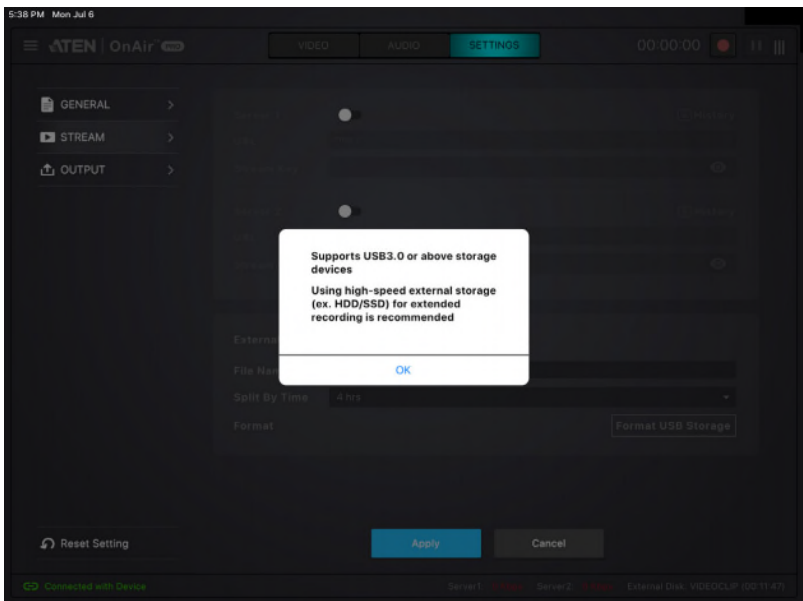


Example Live-stream URL and Stream Key (Youtube)

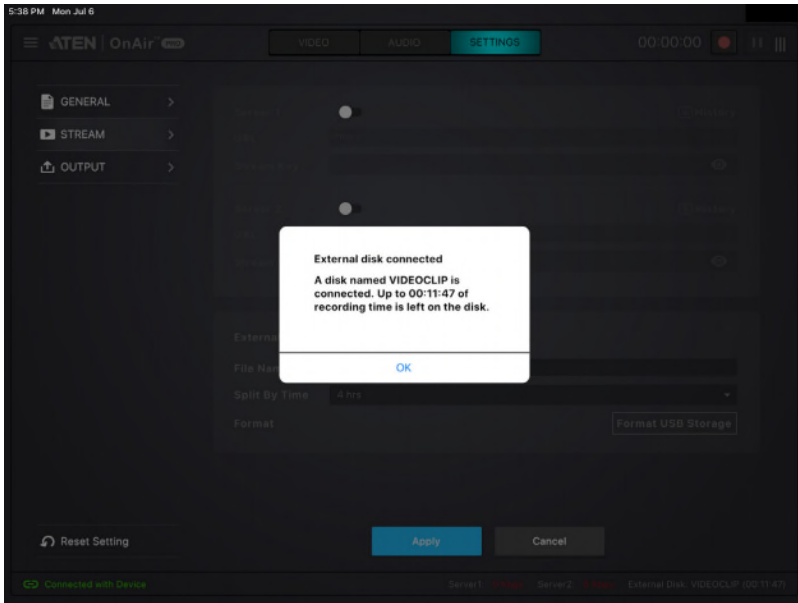




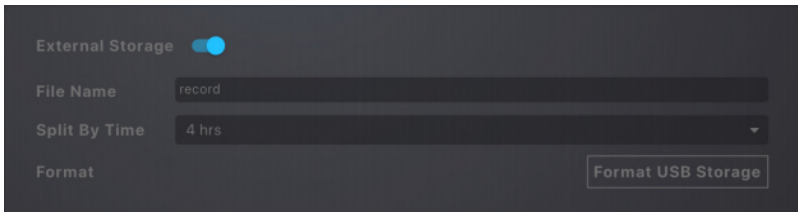
A warning message appears if the storage device plugged into the StreamLIVE™ PRO is not a USB3.0 or later storage device.



A confirmation message appears when a USB3.0 or later storage device is plugged into the StreamLIVE™ PRO.



Now you may configure the storage device's record settings or format the device manually.

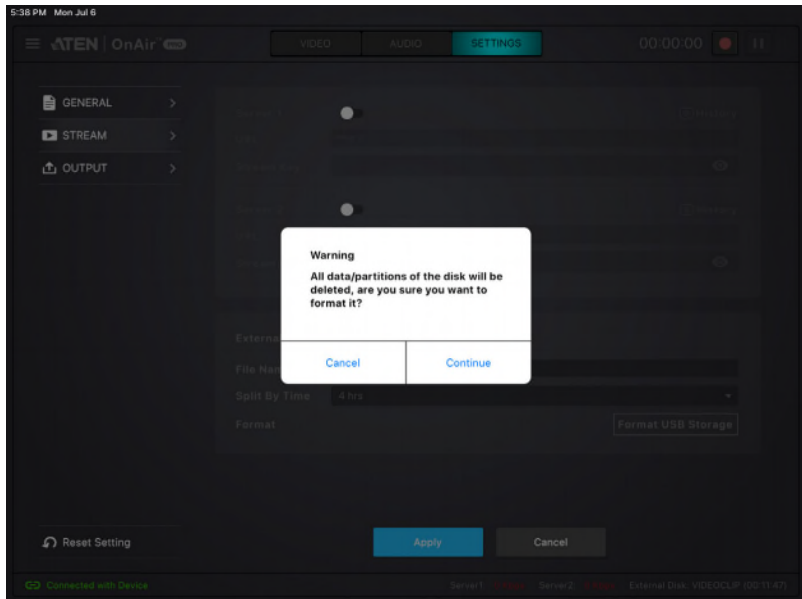


Tap the **File Name** field to adjust the file name of the recording(s).

Tap the **Split By Time** drop-down menu to select how long a recording is before splitting into the next recording. The drop-down menu is shown:



Tap **Format USB Storage** to manually go through the format process. A warning message below appears.



Video Information for Live-stream Recording

Video Format: 1080p30

Video Compression: H. 264

Audio Compression: AAC

Video Container Format: MP4

Does not support uncompressed recording.

Record Media: USB 3.0 hard drive or USB 3.0 flash drive

Does not support SD card.

Chapter 7

Quick Live-Stream Setup

Setup

Before you start live-streaming, you need to setup your live-stream platform on the UC9040.

Setting these up can be on any interface (PC, laptop, tablets, etc.) as long as you are able to get the *Server URL* and *Stream Key*.

This section will therefore take you through obtaining the Server URL and Stream Key, input them into the ATEN OnAir PRO app, synchronize the ATEN OnAir PRO app with the UC9040 and start streaming using your iPad.

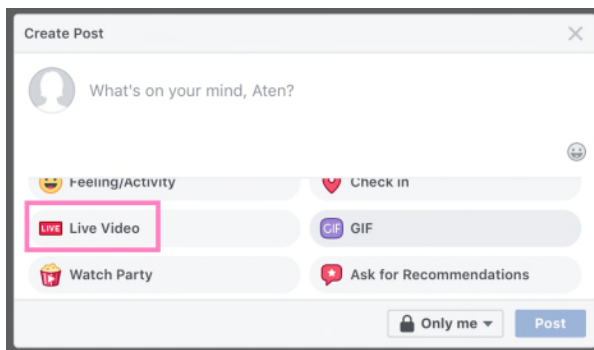
Follow the steps below:

Note: Facebook is the streaming platform example used in the setup steps below.

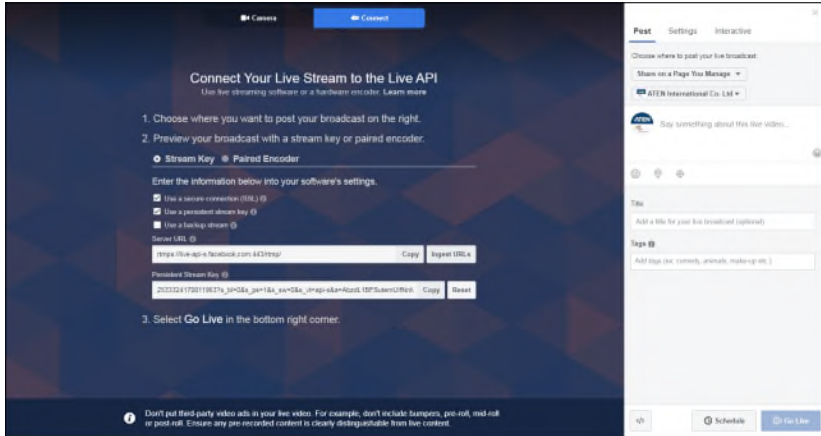
1. On the iPad, open Safari (Internet browser) and go to the Facebook page.

Note: Make sure your iPad is Internet-enabled and is using desktop mode. If your iPad is always bringing you to the facebook app (or youtube, twitch, etc.), remove it from the system first and install it again later.


2. Log into your account.
3. On the dashboard, locate and tap the **What's on your mind** field.
4. Tap to select **Live Video**.



5. Tap the **Connect** button up top. A page similar to the one below is shown:

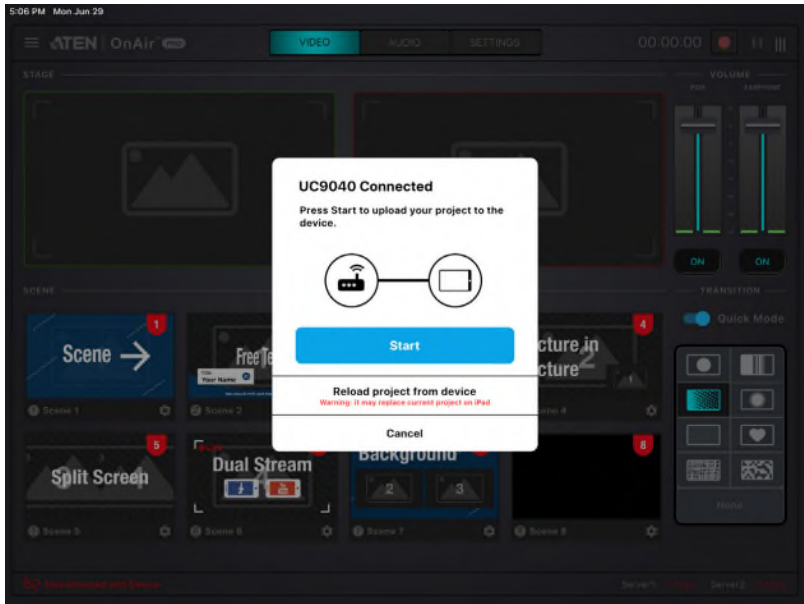


6. Server URL and Stream Key are displayed here. Copy them and enter them into their corresponding fields in the stream settings section under the “Setting” deck of the ATEN OnAir PRO app.

Note: 1. Make sure the eye icon in the Stream Key field is shown as  to allow you to paste the key.

2. It is highly recommended to check the “Use a persistent stream key” checkbox to keep this stream key.

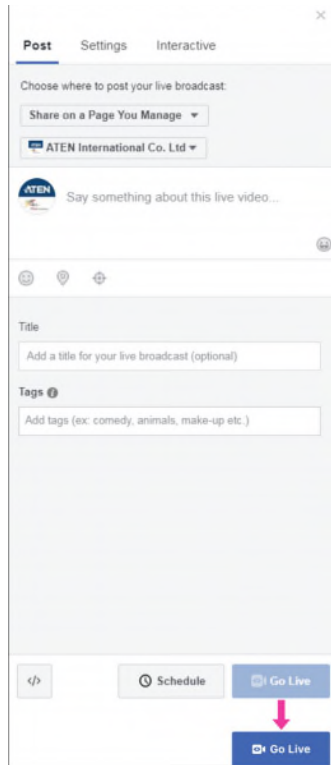
7. Connect the iPad to your UC9040. The ATEN OnAir PRO app will ask you about the synchronization option. Tap **Start**.



8. Configure other settings on the ATEN OnAir PRO app and press the GO LIVE button on the unit or on the ATEN OnAir PRO app:



9. Disconnect iPad from the unit and go to the Facebook **Connect** page. Upon receiving the stream, the **Go Live** button (on the bottom-right of the page) will light up.



10. You can tap **Go Live** to start broadcasting your stream, or you can edit the information here (scope not part of this manual) before you start broadcasting your stream.

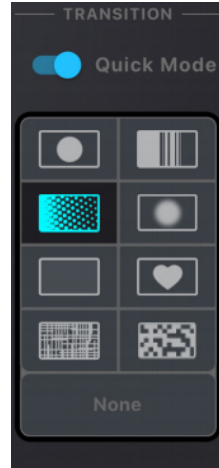
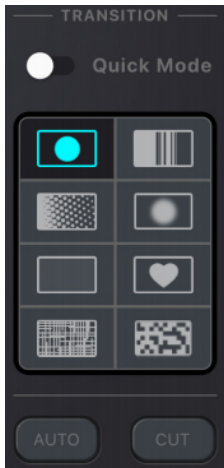
11. Connect your iPad to the unit to control the stream using the ATEN OnAir PRO app.

Note: Streaming on other streaming platforms using the unit requires the same information (Server URL and Stream Key), refer to their websites for more information.

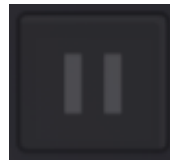
During the Live-Stream / Live-Stream Recording

During the live-stream or the live-stream video recording, you can:

- ◆ Use the transition function (T-bar, Auto button or Cut button) to switch PRV preview image to the PRG preview.



- ◆ Press the Pause button to pause streaming.



- ◆ Press the GO LIVE button again to stop the stream.

- ◆ Edit the video scenes in scene editor, tune audio settings in the audio mixer deck, adjusting audio delays in the settings deck, etc. Tap **Apply** to apply the changes.

x = 1-9

y = 0-9

- ◆ The unit will upgrade using the newest firmware. For example, if the folder has a “uc9040_V1.0.080” file and a “uc9040_V1.1.102” file, the unit will upgrade using the “uc9040_V1.1.102” file.
-

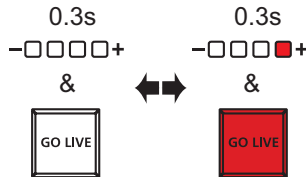
4. If the firmware upgrade was successful, the first LED of the Volume Meter LEDs will blink every 0.3 seconds. The unit will reboot after some time to complete the process.



Note: If the firmware upgrade fails, the last LED of Volume Meter LEDs will blink every 0.3 seconds. Refer to *Upgrade Fail* on page 69 for more information.

Upgrade Assessment Fail

When the upgrade assessments fail (e.g. when no USB storage device is connected or USB drive does not have a firmware upgrade file, etc.), the **GO LIVE** button and the last LED of Volume Meter LEDs will blink every 0.3 seconds.



Press the **GO LIVE** button to return the unit to normal operation and try again from step 1.

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Safety Instructions

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.
- ◆ The device is equipped with a 3-wire grounding type plug. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not attempt to defeat the purpose of the grounding-type plug. Always follow your local/national wiring codes.
- ◆ 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.
- ◆ If an extension cord is used with this device make sure that the total of the ampere ratings of all products used on this cord does not exceed the

extension cord ampere rating. Make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.

- ◆ To help protect your system from sudden, transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or uninterruptible power supply (UPS).
- ◆ 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 iii:

North America

Email Support		support@aten-usa.com
Online Technical Support	Troubleshooting Documentation Software Updates	http://www.aten-usa.com/support
Telephone Support		1-888-999-ATEN ext 4988 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	StreamLIVE™ PRO
Video Input	<p>1 x 4K HDMI Type A Female (up to 2160@60, no HDCP support)</p> <p>3 x HDMI Type-A Female (up to 1080p@60, switcher, no HDCP support)</p>
Video Output	<p>1 x 4K Loop-Thru HDMI Type-A Female (up to 2160@60, no HDCP support)</p> <p>1 x PGM HDMI Type-A Female (up to 1080p@60, no HDCP support)</p>
Video Sampling	4:2:2 8-bit
Color Space	4:2:2 YUV
Video Resolution	<p>Input Resolution</p> <p>HDMI 1</p> <p>VGA: 640x480@60, 480p: 60/50/30/25, SVGA: 800x600@60, XGA: 1024x768@60, 720p: 60/50/30/25, SXGA: 1280x1024@60, WXGA+: 1440x900@60, UXGA: 1600x1200@60 (RB), WUXGA+: 1680x1050@60, 1080p: 60/50/30/25, 2160p: 60/50/30/25</p> <p>HDMI 2/3/4</p> <p>VGA: 640x480@60, 480p: 60/50/30/25, SVGA: 800x600@60, XGA: 1024x768@60, 720p: 60/50/30/25, SXGA: 1280x1024@60, WXGA+: 1440x900@60, UXGA: 1600x1200@60 (RB), 1080p: 60/50/30/25</p> <p>Output Resolution</p> <p>SRC/PGM HDMI</p> <p>480p: 60/50/30/25, 576p: 60/50/30/25, 720p: 60/50/30/25, 1080p: 60/50/30/25</p> <p>HDMI Loop-Through</p> <p>VGA: 640x480@60, 480p: 60/50/30/25, SVGA: 800x600@60, XGA: 1024x768@60, 720p: 60/50/30/25, SXGA: 1280x1024@60, WXGA+: 1440x900@60, UXGA: 1600x1200@60 (RB), WUXGA+: 1680x1050@60, 1080p: 60/50/30/25, 2160p: 60/50/30/25</p>
Audio Input	<p>HDMI Captured Inputs (Stereo)</p> <p>2 x 1/4" TRS Jack (Dual Mono)</p>
Audio Output	<p>HDMI Outputs (Stereo)</p> <p>1 x 1/8" Phone Jack (Stereo)</p>

Function	StreamLIVE™ PRO
Network Protocol	Dual-stream encoder supports direct live streaming to CDN server over Ethernet using Real Time Messaging Protocol (RTMP/RTMPS) Video Encoding Format: H.264 Bit rate: 512Kbps-10Mbps Color Format: YUV420 Resolution: 1080p: 30/25, 720p: 60/50/30/25, 480p: 60/50/30/25 Audio Encoding Format: AAC Sampling Rate: 48kHz Bit rate: 128kbps
Recording Storage	Max. Video Resolution: 1080p: 30/25 File Format: MP4 Support Media: USB 3.x compatible mobile (HDD/SSD) drive or flash drive, and at least 32GB of free space
Connection	2 x USB 3.1 Gen1 Type-A Female (Blue) 1 x USB Type-C 1 x GbE LAN Port
Environmental	
Operating Temperature	0–40 °C
Storage Temperature	–20–60 °C
Humidity	0–80% RH, Non-Condensing
OS Support	<ul style="list-style-type: none"> ◆ iPad Pro (3rd gen) with iOS 11 or later ◆ The following iPad with iOS 11 or later (Additional Apple Lightning USB 3 Adapter is required) <ul style="list-style-type: none"> • iPad Pro 9.7 (1st gen) • iPad Pro 12.9 (1st gen) • iPad Pro 10.5 (2nd gen) • iPad Pro 12.9 (2nd gen) • iPad (5th gen) • iPad (6th gen) • iPad Air (3rd gen) • iPad Mini (5th gen)
Power	
Maximum Input Power Rating	DC12V, 7.5A
Power Consumption	DC12V:17.37W:184BTU
Physical Properties	
Housing	Metal
Weight	1.85kg (4.07lb)
Dimensions (L x W x H)	28.85 x 18.99 x 9.66 cm (11.36 x 7.48 x 3.8 in.)

Live-Streaming Information

Create a Live Stream with Youtube

You can learn more from Youtube for “Encoder Streaming”

https://support.google.com/youtube/answer/9227510?hl=en&ref_topic=9257984

Or from “Set up your live streaming encoder”

<https://support.google.com/youtube/answer/2907883>

What is CDN Service?

A content delivery network or content distribution network (CDN) is a geographically distributed network of proxy servers and their data centers. The goal is to provide high availability and high performance by distributing the service spatially relative to end-users. CDNs serve a large portion of the Internet content today, including web objects (text, graphics and scripts), downloadable objects (media files, software, documents), applications (e-commerce, portals), live streaming media, on-demand streaming media, and social media sites.

RTMP/RTMPS and RTSP Protocols

UC9020 supports RTMP/RTMPS protocol but not RTSP.

The Real-Time Messaging Protocol (RTMP) was initially a proprietary protocol for streaming audio, video and data over the Internet between a live stream client and a server. The RTMP protocol has multiple variations.

The Real Time Streaming Protocol (RTSP) is a network control protocol designed for use in entertainment and communications systems to control streaming media servers. The protocol is used for establishing and controlling media sessions between end points.

Other ways to input image overlays

When your iPad is connected to the unit using direct cable link, you can upload images to the iPad directly.

You can also use, and we strongly recommend you do, Apple AirDrop and its Continuity (Enable Handoff) features to upload all necessary data from Apple related products to improve convenience.

Limited Warranty

ATEN warrants its hardware in the country of purchase against flaws in materials and workmanship for a Warranty Period of two [2] years (warranty period may vary in certain regions/countries) commencing on the date of original purchase. This warranty period includes the LCD panel of ATEN LCD KVM switches. Select products are warranted for an additional year (see *A+ Warranty* for further details). Cables and accessories are not covered by the Standard Warranty.

What is covered by the Limited Hardware Warranty

ATEN will provide a repair service, without charge, during the Warranty Period. If a product is defective, ATEN will, at its discretion, have the option to (1) repair said product with new or repaired components, or (2) replace the entire product with an identical product or with a similar product which fulfills the same function as the defective product. Replaced products assume the warranty of the original product for the remaining period or a period of 90 days, whichever is longer. When the products or components are replaced, the replacing articles shall become customer property and the replaced articles shall become the property of ATEN.

To learn more about our warranty policies, please visit our website:
<http://www.aten.com/global/en/legal/policies/warranty-policy>

Manual Part No. PAPE-0402-AT1G



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