

Arec

# LS-310 Media Station

Capture • Mix • Switch • Record • Stream • Backup

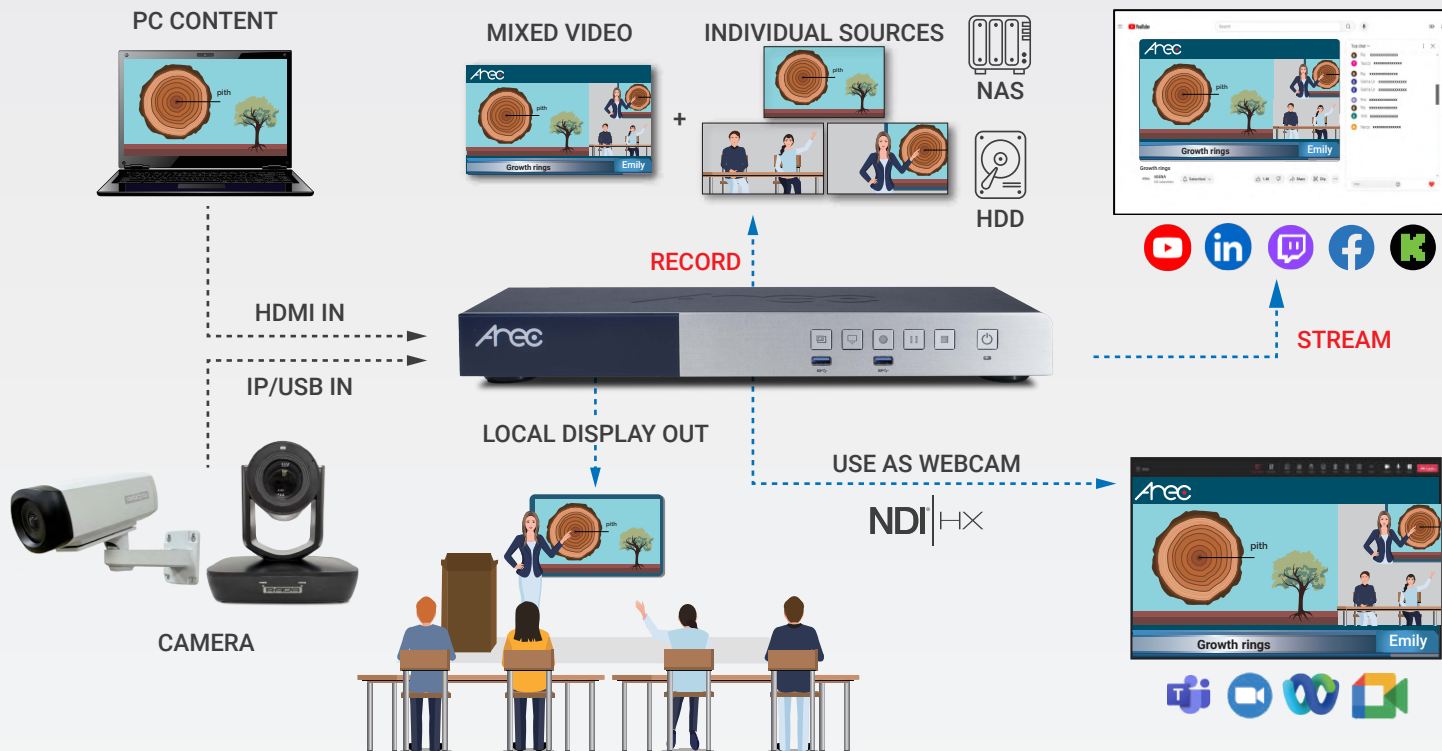


4K Dante® NDI|HX SRT  
READY

Designed for  
Education, Business, Government,  
Healthcare, Worship, Events, and many more uses

## AREC LS-310 Media Station

AREC LS-310 Media Station is a lecture capture device that is made to capture, mix, switch, record, stream, and backup audio and video sources easily and efficiently. It is a 3-channel model, meaning that it can simultaneously work with 3 video sources, which can be connected via HDMI, USB, or Network.



Integrated with



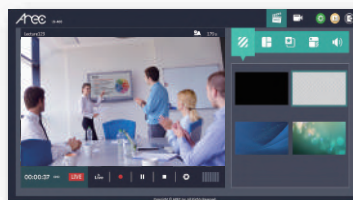
### Intuitive and Versatile Control Options

AREC LS-310 supports a wide range of control options: web-based Online Director (Chrome, Edge), touch-friendly Graphical User Interface (GUI), Mini Controller for mobile devices, physical control buttons, and RS-232/TCP commands among others.

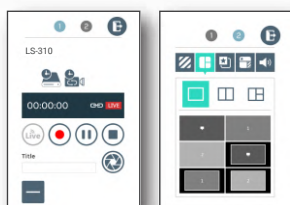
- On-screen GUI with mouse/touch USB control



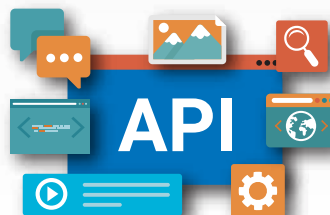
- Web-based Online Director



- Mini Controller for mobile devices

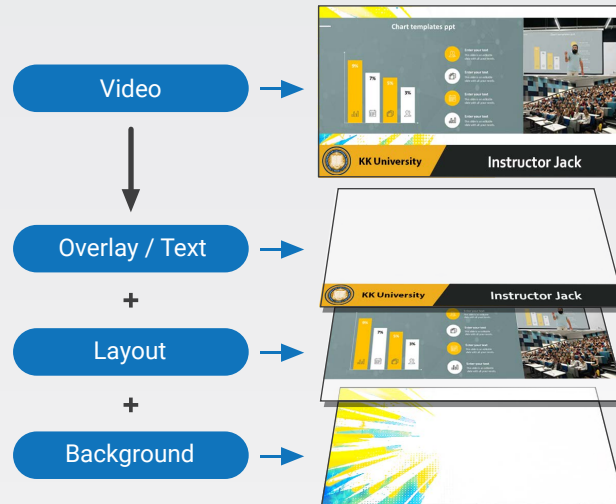


- API for RS-232/TCP/HTTP control



## Professional Video Creation Made Simple

With the LS-310, any user can quickly and easily record and stream a video with custom backgrounds, overlays, and layouts. This mixed video can be streamed to up to 2 platforms simultaneously, such as YouTube, Facebook, and other live broadcasting websites. Additional built-in tools, such as smooth transitions and textual overlays, allow users to add a personal flair even without design skills.

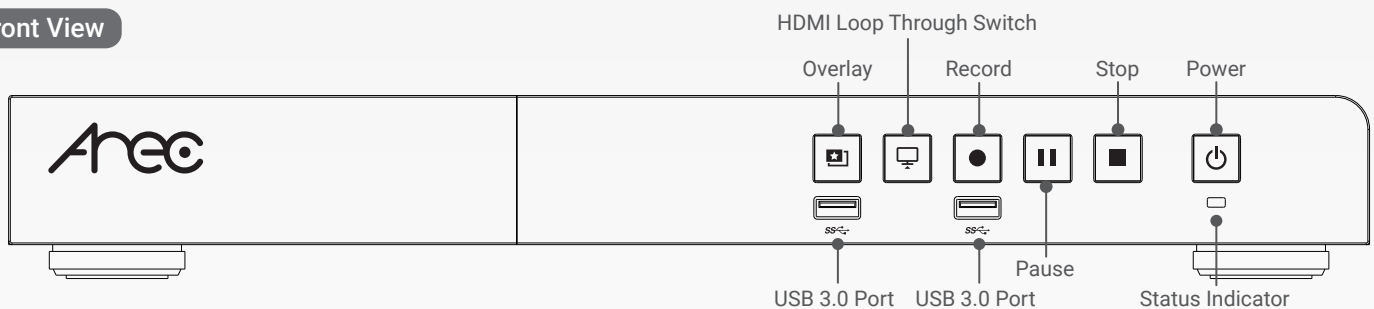


## Main Features

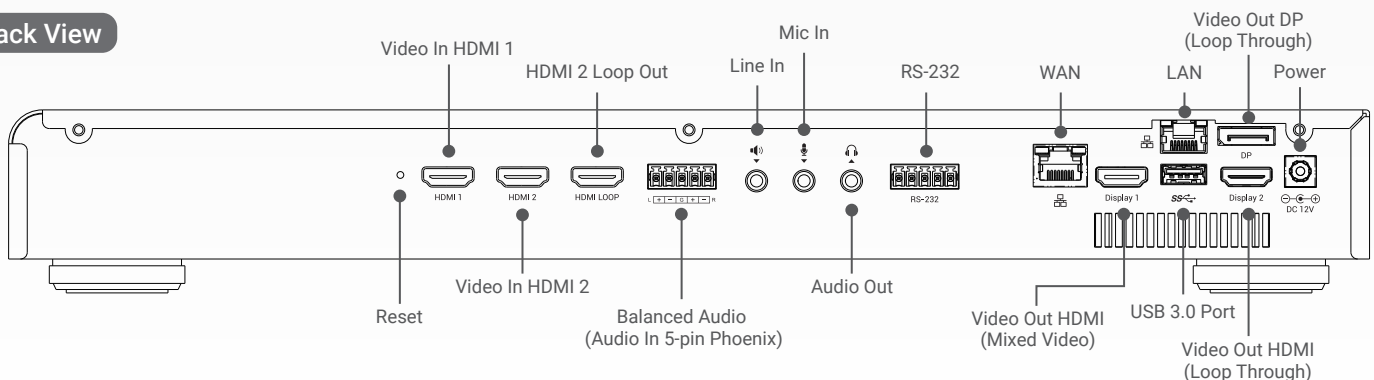
- Capture, mix, switch, record, stream, and backup all audio and video sources.
- Supports up to 3 Full HD or 2 4K UHD channels.
- Supports 4K UHD 30 FPS recording and streaming.
- Supports USB, HDMI, and Network audio and video inputs.
- Dante Audio and NDI|HX enabled.

## Product Interface

### Front View



### Back View



# Specifications

Model Name	AREC LS-310 Media Station
<b>Audio and Video Inputs</b>	
Video Inputs*	Supports up to 3 video inputs simultaneously: <ul style="list-style-type: none"> <li>• HDMI: up to 2 inputs</li> <li>• USB: up to 3 inputs</li> <li>• Network (RTSP/RTMP/RTMPS/RTP/NDI HX/SRT): up to 3 inputs</li> </ul>
Maximum Video Input Channels	3 channels
Input Resolution	<ul style="list-style-type: none"> <li>• HDMI: 480i~2160p60</li> <li>• Network: up to 2160p30</li> <li>• USB (UVC): up to 2160p30</li> </ul>
Audio Inputs	<ul style="list-style-type: none"> <li>• 1 x 3.5mm Stereo Mic in</li> <li>• 1 x 3.5mm Stereo Line in</li> <li>• 2 x HDMI</li> <li>• 1 x Balanced audio in with a 5-pin Phoenix connector</li> <li>• 1 x USB (UAC)</li> <li>• 2 x RJ-45<sup>1</sup> (Supports digital audio inputs)</li> </ul> <p>Note 1: Supported network protocols: 3 via RTSP/RTMP/RTMPS/RTP/NDI HX/SRT and 2 via Dante Audio</p>
<b>Video Processing</b>	
Compression	H.264 (AVC)/H.265 (HEVC)
Frame Rate	4K UHD: Max. 30fps Full HD: Max. 60fps
Bit Rate	300Kbps~32Mbps
Resolution	Max. 4K UHD (640x360 ~ 3840x2160)
<b>Audio Processing</b>	
Compression	AAC-LC
Bit Rate	80Kbps~320Kbps
<b>Audio and Video Outputs</b>	
Video Outputs*	<ul style="list-style-type: none"> <li>• 1 x HDMI 2 loop through port (up to 2160p60, shows HDMI 2 input)</li> <li>• 1 x HDMI Display 1 port (up to 2160p30, mixed video + GUI output)</li> <li>• 1 x HDMI Display 2 port (up to 2160p30, mixed video, single source or multisource monitoring)</li> <li>• 1 x DP port (up to 2160p30, shows mixed video, single source or multisource monitoring)</li> <li>• 2 x RJ-45 port (streaming RTSP/RTMP/RTMPS/RTP/NDI HX/SRT, up to 2160p30. Maximum 2 RTMP/RTMPS/RTP/SRT streams)</li> </ul>
Audio Outputs	<ul style="list-style-type: none"> <li>• 1 x 3.5mm Stereo Line out</li> <li>• 3 x HDMI</li> <li>• 1 x DP</li> <li>• 2 x RJ-45<sup>1</sup> (digital video over Ethernet)</li> </ul> <p>Note 1: Supported network protocols: RTSP/RTMP/RTMPS/RTP/NDI HX/SRT/Dante Audio 2x2</p>
<b>Streaming</b>	
Streaming Delay	1 sec.
Supported Streaming Protocols	RTSP/RTMP/RTMPS/RTP/NDI HX/SRT/Dante Audio
Streaming Specifics	<ol style="list-style-type: none"> <li>1. Users can configure 2 streaming outputs via RTMP (RTMPS), RTP<sup>1</sup>, or SRT. These streams can be done simultaneously</li> <li>2. The device can output RTSP<sup>2</sup> and NDI HX streams locally</li> </ol> <p>Note 1: RTP: MPEG2-TS over RTP unicast; MPEG2-TS over RTP multicast</p> <p>Note 2: RTSP (TCP/UDP): Max. 6 clients (RTSP stream can only be pulled from the device's URL)</p>
<b>Storage and Backup</b>	
Built-in Local Storage	2TB 2.5" SATAIII Hard Drive
External Storage	USB drives, NAS (NFS/CIFS)
Video recording file format	MP4
Backup	FTP/SFTP/Google Drive Integrated Video Content Management Systems (VCMS): Kaltura/Opencast/Panopto

<b>Recording</b>	
Recording Modes*	Mixed video only/mixed video + individual sources recording
Scheduled Recording	Supports manual and automatic scheduling using iCalendar format (.ics) calendars, such as Google Calendar Supports scheduling via integrated Video Content Management Systems (VCMS): Kaltura/Opencast/Panopto
Recording and Streaming Layouts	Features 28 layouts by default. These layouts can be customised using the device's web-based Online Director interface or AREC Layout Editor software
Bookmark	Automatic and manual bookmark insertion
Background Images	Supports up to 10 default and user-uploaded images
Overlay Images	Supports up to 20 default and user-uploaded images
Textual Overlays	Text can be added manually via the built-in web interface
Custom Themes	Supports creation of up to 50 themes. Themes allow switching between combinations of layouts, overlays, and backgrounds
<b>Controls of LS-310 and Network Cameras</b>	
Touch Control	Graphical user interface (GUI) via USB
Standard USB Mice and Numeric Keypads	Supported
Front Panel Physical Buttons	Start/stop/pause recording, change overlays, loop through outputs, power on/off
External Control	RS-232/TCP-IP/HTTP API support
Web-Based Control	Built-in AREC Administrator and AREC Online Director web interfaces for setup and control
Mobile Device Control	Supports adapted web-based interface AREC Mini Controller, accessible via standard browsers on mobile devices
Group Control	Supports AREC Station Manager, an application for controlling groups of Media Stations
Pedal Control	Supports RADA Clutch USB control pedals
Tally Light Control	Supports AREC UB-01 and UB-01M Recording Light for starting and stopping recording and monitoring recording status
Integrations	Supports AREC DS-4CU and DS-9CU Speaker Tracking Stations for automatic theme switching Supports integrated VCMS platforms for recording and streaming processes control
Calendar Automation	Supports iCalendar (.ics) files, calendars, and integrated VCMS platforms (Kaltura, Opencast, Panopto) for automatic starting and stopping of recording and streaming
Camera Control	PELCO-D/PELCO-P/VISCA/VISCA-over-IP/ONVIF Profile S/NDI
<b>General Information</b>	
Operation System	Embedded Linux system
Power Supply	12V/3.34A/40W
Temperature / Humidity	0~40°C / 90%
Dimensions	401.4 mm(L) x 167.4mm(W) x 54mm(H)
Weight	2.25kg (5 lbs)
Languages	SC/TC/English/Russian/Spanish/Czech/Korean/Latvian/German/Estonian/Japanese
Accessories	Power adapter/quick guide/ear mounts/ USB numeric keypad/2 terminal blocks

\* When switching to 1080p50/60, 2160p30, and HEVC modes, restrictions apply. Refer to the user manual for more details.



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