

Arec

LS-310F Media Station

Capture • Mix • Switch • Record • Stream • Backup



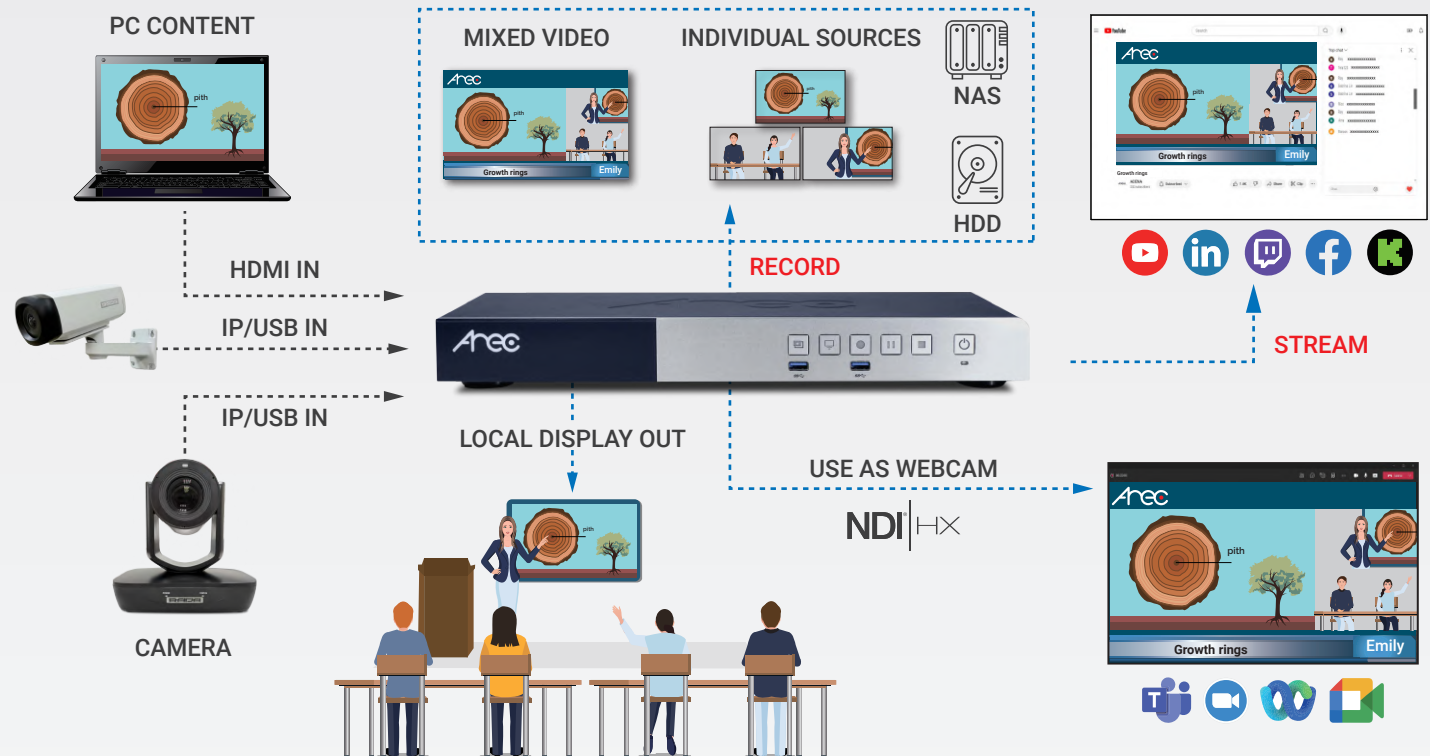
NDI|HX SRT
READY

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

Introduction

AREC LS-310F Media Station

AREC LS-310F 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



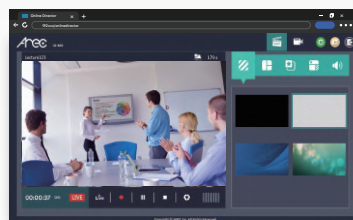
Intuitive and Versatile Control Options

AREC LS-310F 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.

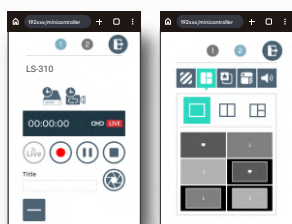
- On-screen GUI with mouse/touch USB control



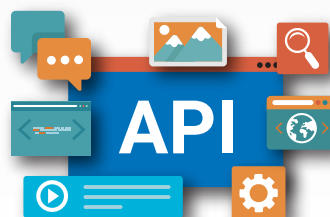
- Web-based Online Director



- Mini Controller for mobile devices

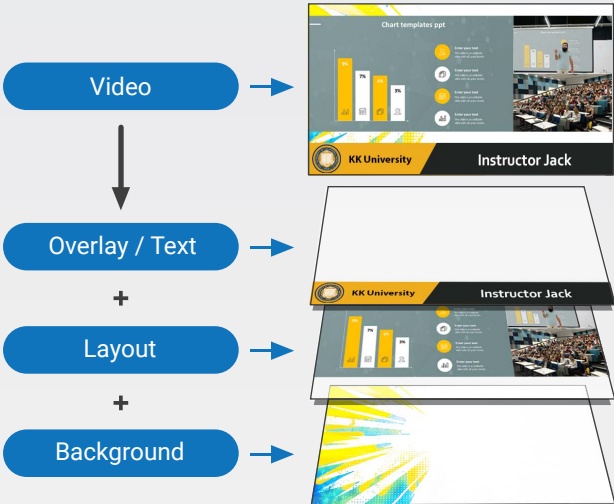


- API for RS-232/TCP/HTTP control



Professional Video Creation Made Simple

With the LS-310F, 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.

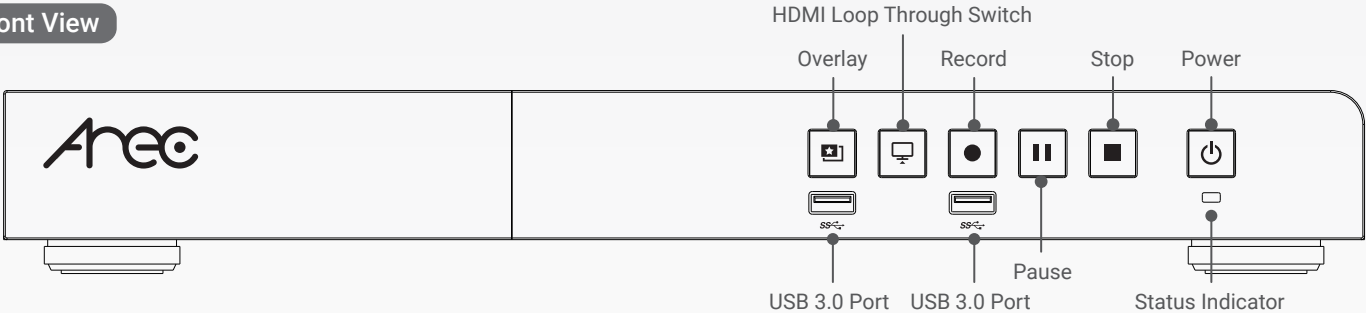


Main Features

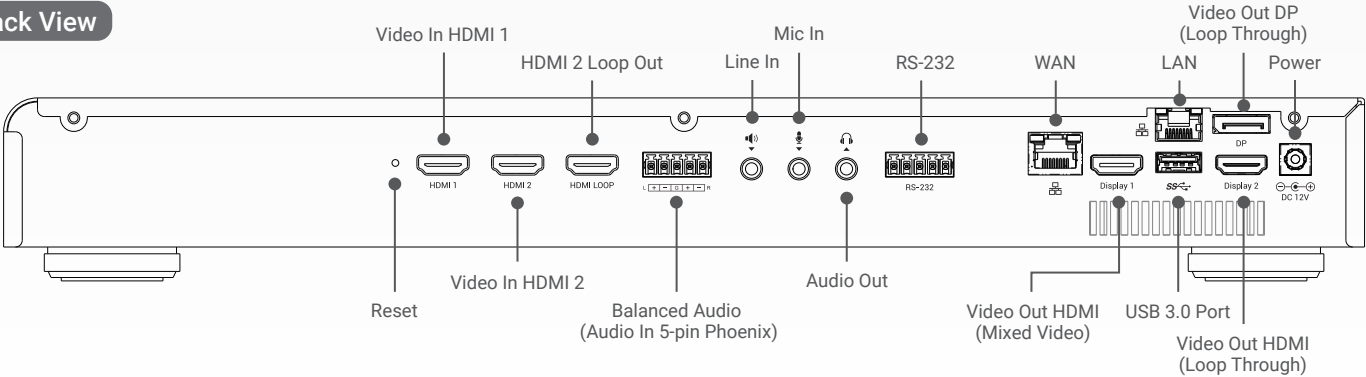
- Capture, mix, switch, record, stream, and backup all audio and video sources.
- Supports up to 3 Full HD channels.
- Supports 1080p 60 FPS Full HD recording and streaming.
- Supports USB, HDMI, and Network audio and video inputs.
- NDI|HX enabled.

Product Interface

Front View



Back View



Specifications

Model Name	AREC LS-310F Media Station
Audio and Video Inputs	
Maximum Video Input Channels	3 channels
Video Inputs*	Supports up to 3 video inputs simultaneously: • HDMI: up to 2 inputs • USB: up to 3 inputs • Network (RTSP/RTMP/RTMPS/RTP/NDI HX/SRT): up to 3 inputs
Input Resolution	• HDMI: 480i~2160p60 • Network: up to 1080p60 • USB (UVC): up to 1080p60
Audio Inputs	• 1 x 3.5mm Stereo Mic in • 1 x 3.5mm Stereo Line in • 2 x HDMI • 1 x Balanced audio in with a 5-pin Phoenix connector • 1 x USB (UAC) • 2 x RJ-45¹ (Supports digital audio inputs) Note 1: Supported network protocols: 3 via RTSP/RTMP/RTMPS/RTP/NDI HX/SRT
Video Processing	
Compression	H.264 (AVC)/H.265 (HEVC)
Frame Rate	Full HD: Max. 60fps
Bit Rate	300Kbps~32Mbps
Resolution	640x360 ~ 1920x1080
Audio Processing	
Compression	AAC-LC
Bit Rate	80Kbps~320Kbps
Audio and Video Outputs	
Video Outputs*	• 1 x HDMI 2 loop through port (up to 2160p60, shows HDMI 2 input) • 1 x HDMI Display 1 port (up to 1080p60, shows mixed video + GUI output) • 1 x HDMI Display 2 port (up to 1080p60, shows mixed video, single source or multisource monitoring) • 1 x DP port (up to 1080p60, shows mixed video, single source or multisource monitoring) • 2 x RJ-45 port (streaming RTSP/RTMP/RTMPS/RTP/NDI HX/SRT, up to 1080p60. Maximum 2 RTMP/RTMPS/RTP/SRT streams)
Audio Outputs	• 1 x 3.5mm Stereo Line out • 3 x HDMI • 1 x DP • 2 x RJ-45² (digital video over Ethernet) Note 2: Supported network protocols: RTSP/RTMP/RTMPS/RTP/NDI HX/SRT
Streaming	
Streaming Delay	1 sec.
Supported Streaming Protocols	RTSP/RTMP/RTMPS/RTP/NDI HX/SRT
Streaming Specifics	1. Users can configure 2 streaming outputs via RTMP (RTMPS), RTP³, or SRT. These streams can be done simultaneously 2. The device can output RTSP⁴ and NDI HX streams locally Note 3: RTP: MPEG2-TS over RTP unicast; MPEG2-TS over RTP multicast Note 4: RTSP (TCP/UDP): Max. 6 clients (RTSP stream can only be pulled from the device's URL)
Storage and Backup	
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

Recording	
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
Controls of LS-310F and Network Cameras	
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
Power Management	Automatic power on and power off schedules
General Information	
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/French
Accessories	Power adapter/quick guide/ear mounts/2 terminal blocks

* When switching to 1080p50, 1080p60, and HEVC modes, restrictions apply. Refer to the user manual for more details.