

Arec

LS-410 Media Station



- All-in-One Device to Offer Up to 4-Input Video Sources Capturing, Mixing, Switching, Recording and Live Streaming
- Supports USB Audio and Video Input Devices
- Capable of Recording Full HD Video up to 1080p 60fps
- Support NDI|HX and SRT Streaming Protocol

Main Features

Capture Up to 4 Video Sources at Once with Versatile Inputs

Via newly added USB jack, HDMI, RJ-45 interfaces or streaming inputs, AREC LS-410 supports up to 4 Full HD 1080p video sources capturing, mixing, switching, recording and live streaming. LS-410 is compatible with network-based H.264 RTMP/ RTP/ RTSP (video only) and NDI|HX sources. In terms of audio processing, LS-410 can mix audio via HDMI, 3.5mm stereo audio jacks, phoenix plug and USB audio inputs to provide high- performance quality.

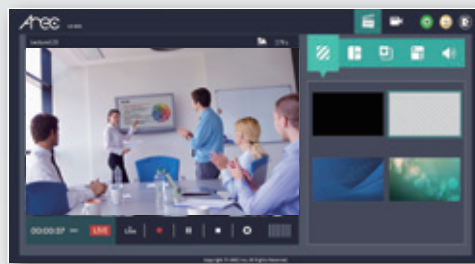


Intuitive and Versatile Control Options

AREC LS-410 supports a wide range of control options, including Web-based Online Director (Chrome, Edge), Touch-Friendly Graphical User Interface, and Mini Controller for Mobile Devices. Control buttons on the front of LS-410 are also provided.



On-screen GUI with mouse/ touch USB control



Web/ SW-based Online Director

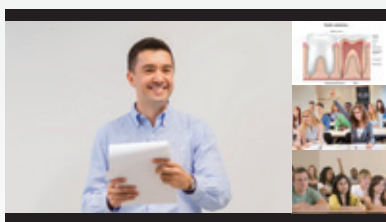


Mini Controller from Mobile Devices

AV Recording with Metadata

AREC LS-410 can record 1 video channel up to 1080p60 to deliver superior quality based on content or viewing requirements. With LS-410, users can choose 1 mixed video plus 4 individual videos recording for flexible use. The recording file can include video content, metadata, and thumbnail. With available APIs, all of the data can be delivered seamlessly for third party integration.

• Mixed Mode

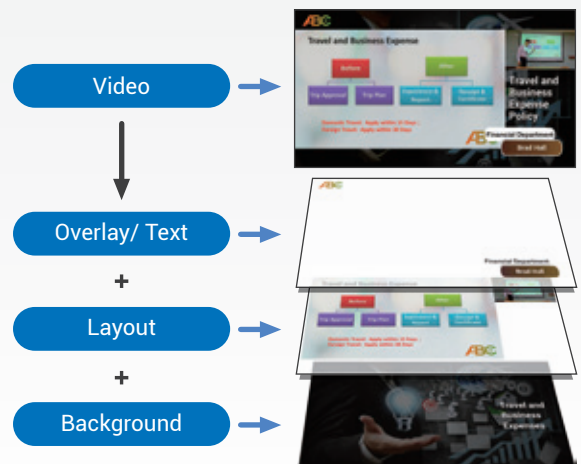


• Original Sources Mode



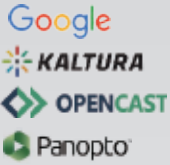
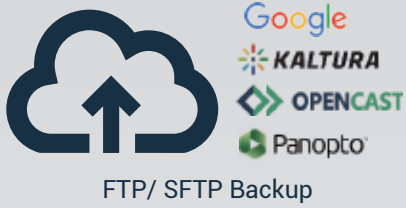
Real-Time Assistant in Video Making

LS-410 can stream mixed video to up to 2 platforms simultaneously, such as YouTube, Facebook and other live broadcasting websites. With AREC Online Director, LS-410 allows users to be in control of their video recording/ streaming in real-time. It makes users easily switch and mix between sources, add or remove logos, backgrounds, overlay graphics, and text title for live production.



Backup & Upload Your Recordings

With internal 2TB hard drive, LS-410 can save hundreds of hours recording videos. To increase security, LS-410 can automatically backup or upload recordings to AREC Media-Center, FTP, SFTP, NAS, Google Drive, Opencast, Kaltura, Panopto and so on.



Management APP and Cloud Service

AREC'S hardware system is further optimized for hybrid usage via software and API. For devices management, AREC provides software-based tools and cloud service to meet needs, including Station Manager, ARECloud, and AREC ICM. It is worth mentioning that AREC NAS VOD is a simple video content sharing solution for small to medium organization.



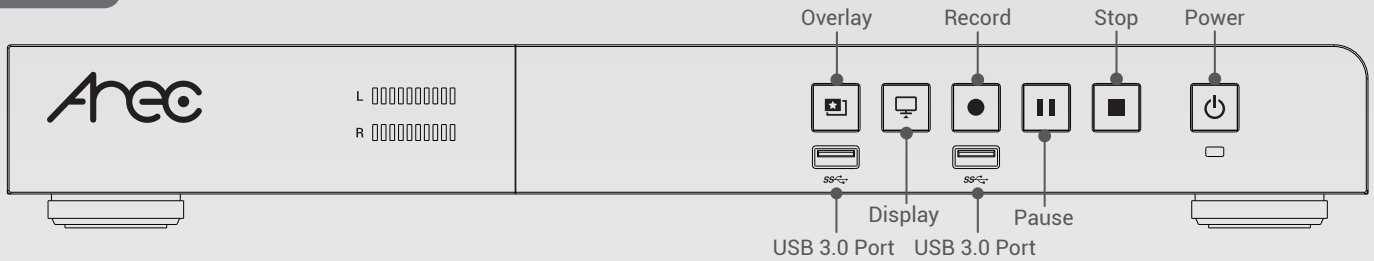
Station Manager



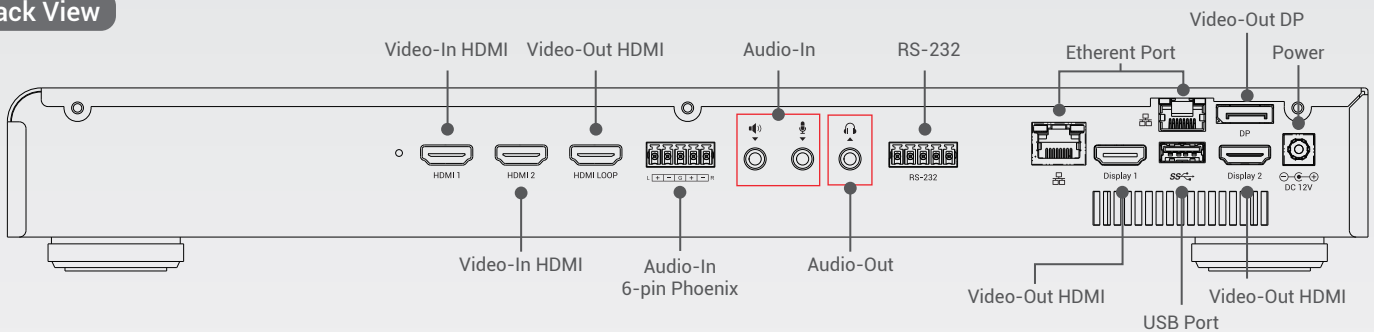
* Users will need to have a valid account on Opencast, Panopto, or Kaltura to use these platforms together with LS-400.

Product Interface

Front View



Back View



On-Screen Graphical User Interface



- 1 Overlay Images
- 2 Recording Layouts
- 3 Background
- 4 Custom Theme
- 5 Timer
- 6 Start / Stop Streaming
- 7 Start / Stop Recording
- 8 Snapshot
- 9 Playback Video
- 10 Setting
- 11 Camera Control
- 12 LS-410 IP Address
- 13 Audio Volumn Bar
- 14 Display Switch

* The on-screen GUI supports mouse device control through USB connection.

Specifications

Model Name	AREC LS-410 Media Station
Input Connection	
Video Input Interface	2 x HDMI 1 x RJ-45 (Supports network cameras or IP streaming: up to 4 channels) 4 x USB (UVC)
	Note: 1. Supports network protocol: H.264 RTMP/ RTP/ RTSP, NDI HX 2. Supports AREC network cameras, compatible with 3rd party network cameras, encoders, streaming sources via IP streaming
Max. Video-In Channels	Maximum 4 channels synchronized recording
Resolution Range	HDMI: 480i~1080p60 RTP/RTMP/RTSP Max.: 1080p60 USB(UVC)
Audio-In Channels	1 x 3.5mm Stereo Mic in 1 x 3.5mm Stereo Line in 2 x HDMI 1 x Balanced audio-in with a 6-pin Phoenix connector 1 x USB (UAC)
Video Processing	
Compression	H.264/ AVC
Frame Rate	Max. 60fps Note: Limit up to 2 channels full function streaming and recording
Bit Rate	300Kbps~4Mbps
Resolution	Max. 1080p (640x360 ~ 1920x1080)
Audio Processing	
Compression	AAC-LC
Bit Rate	80Kbps~320Kbps
Video / Audio Outputs	
Video Outputs	1 x HDMI loop through 2 x HDMI display ports (1 output option from loop-through, inputs monitoring and multi-source display) 1 x DisplayPort (PGM or multi-source display config-able) 2 x H.264/AVC digital video over Ethernet
	Note: PGM with on-screen GUI is selectable between HDMI 1, 2 and DisplayPort
Output Resolution	HDMI/ VGA: 1080p60
Audio Outputs	1 x 3.5mm Stereo Line out 2 x HDMI 1 x DP
Streaming Parameters	
Streaming Delay	1 sec.
Compatible Streaming Input Protocols	RTSP, RTP, RTMP, NDI HX
Streaming Output Protocols	RTP, RTMP (RTMPS), RTSP, NDI HX, SRT
	Note: 1. users can choose output options from RTP or RTMP(RTMPS) 2. RTP : MPEG2-TS over RTP unicast; MPEG2-TS over RTP multicast 3. RTSP (TCP/ UDP): Max 6 clients RTSP streams can only pull from URL
Storage, Backup, and Compatibility	
Built-in Local Storage	2TB 2.5" SATAIII Hard Drive
External Storage	Supports USB drive recording through the front port. NAS storage is also supported.
Locally Stored File Format	MP4
Backup	FTP/ SFTP/ Google Drive
Third-Party Video Management System	Compatible with Opencast, Panopto, and Kaltura

Recording	
Recording Modes	Mixed mode, 1 Mixed + 4 individual original sources
Scheduled Recording	Yes, supports iCalendar format (.ics file) , such as google calendar
Recording Layouts	Multiple default and user-defined layouts, including full screen/ picture-in-picture/ picture-by-picture/ multi-channel split screen
Bookmark	Automatic and manual bookmark insertion
Background Images	Multiple default and user-uploaded images
On-Screen Overlay Images	Multiple default and user-uploaded images
Text Title	Text can be added manually via the built-in web interface
Custom Themes	Multiple themes can be created and adjusted
Live Broadcasting	
Live Broadcast to CDN or Stream Server	Mixed video: support RTMP (RTMPS) protocol. Stream up to 2 platforms simultaneously
Video Information Editing	
Post Video Info Editing	Yes, through Video Manager web page
Video Info Adding	Video info will be added on video file name automatically while file output or uploading
Controls of LS-410 and Network Cameras	
Touch Interface	Through recommended touch screen and interactive projector
Mouse Device and Numeric Keypad	Through USB interface connection
Video Switcher	Yes, through web-based AREC Online Director or on-screen GUI for manual controls
Mini Controller	Through mobile web browser and wireless connection for manual controls
External Control	Yes, supports RS-232 interface port
Control Buttons	Yes, at the front of the media station
Video Manager Platform	Built-in video manager platform: through web-based control interface
Group Management	Yes, through ARECloud
Camera Control	VISCA / PELCO-D / PELCO-P / VISCA over IP/ ONVIF profile S / NDI®
General Information	
Operation System	Embedded Linux system
Power Supply	12V/ 2A
Temperature / Humidity	0~40°C/ 90%
Dimension	366.4 mm(L) x 187.3mm(W) x 53.1mm(H)
Weight	2.27kg (5 lbs)
Language	SC/ TC/ English/ Russian/ Spanish/ Czech/ Korean/ Latvian/ German/ Estonian
Accessories	Power adapter/ quick guide



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