

Arec

# LS-410 Media Station



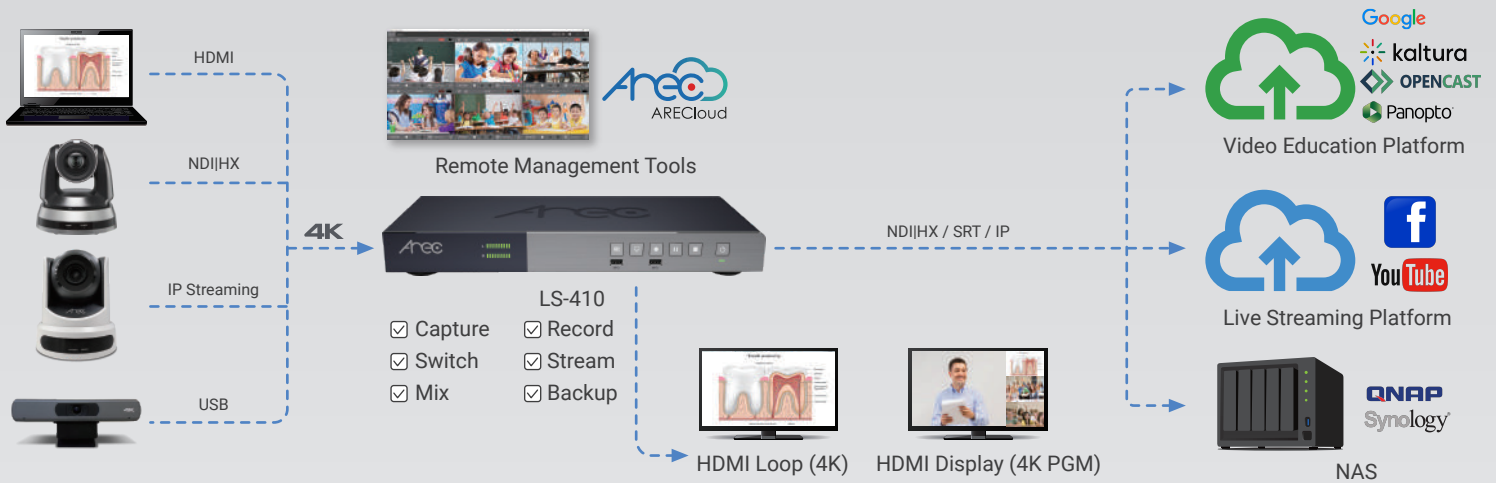
- All-in-One Capturing, Mixing, Switching, Recording and Live Streaming Media Station that Supports Up to 4 Video Input Devices Simultaneously
- Supports 2CH 4K UHD and 4CH FHD Recording and Streaming
- Supports USB Audio and Video Input Devices
- Supports Dante Audio, NDI|HX and SRT Streaming Protocols

4K | Dante | NDI|HX | SRT  
READY

# Main Features

## Capture Up to 4 Video Sources From a Variety of Options

REC LS-410 Media Station features HDMI, RJ-45, and USB interfaces that work with 4K and Full HD AV devices. It is compatible with network-based H.264 and H.265 RTMP/RTP/RTSP/SRT, ONVIF S, and NDI|HX video sources. In terms of audio, LS-410 supports HDMI, 3.5mm stereo audio, Phoenix balanced audio, USB, NDI|HX, and Dante inputs by 2x2.

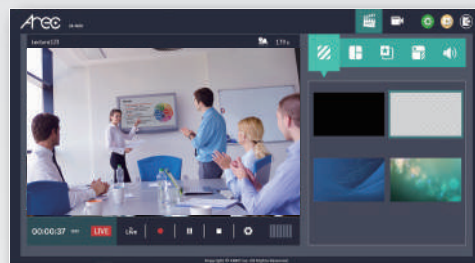


## Intuitive and Versatile Control Options

AREC LS-410 supports a wide range of control options: web-based Online Director (Chrome, Edge), touch-friendly Graphical User Interface, 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 from Mobile Devices

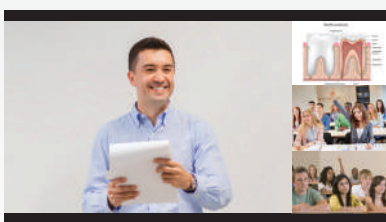
## Individual and Mixed Videos with Metadata

LS-410 is defined by its ability to record a customisable mixed video when in 4K mode, and a customisable mixed video with up to 4 individual video sources simultaneously when in Full HD mode. Each recorded video file includes metadata, bookmarks, and thumbnails. Available APIs for LS-410 make it possible to transfer all this data seamlessly to LMS and VCMS platforms.

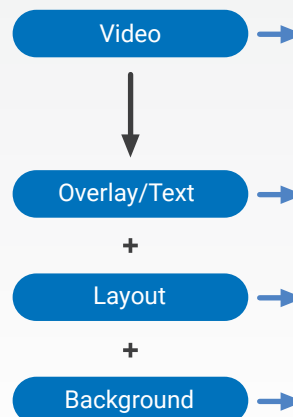
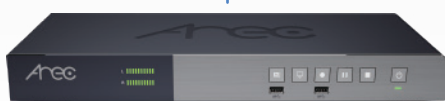
## Real-Time Assistant in Video Making

LS-410 streams mixed video to up to 2 platforms simultaneously, such as YouTube, Facebook, and other live broadcasting websites. AREC inbuilt tools like Online Director allow users to be in control of their video recording/streaming in real time. It lets users easily switch and mix different sources, add or remove logos, backgrounds, overlay graphics, and text titles for live production.

### • Mixed Mode



### • Original Sources Mode



## Backup & Upload Your Recordings

LS-410 can save hundreds of hours of recorded videos thanks to its internal 2TB hard drive. To increase security and user convenience, the station can automatically backup and upload recordings to AREC Media Center, FTP, SFTP, NAS, Google Drive, Opencast, Kaltura, Panopto, and other kinds of servers.



SATA 2TB HDD



FTP/ SFTP Backup



\* Users will need to have a valid account on OpenCast, Panopto, Kaltura, or Google Drive to use these platforms together with the LS-410.

## AREC Software Options

AREC's hardware system is further enhanced for hybrid usage via optional software and API.

AREC Station Manager can be used to conveniently manage multiple locally installed devices in groups. For remote access and control, users can rely on ARECloud, a free and public cloud control service, or AREC ICM, its private version. AREC NAS VOD can be used to provide simple video content sharing solutions, and AREC Media Center can be used to create private CDN for small to medium organisations and institutions.

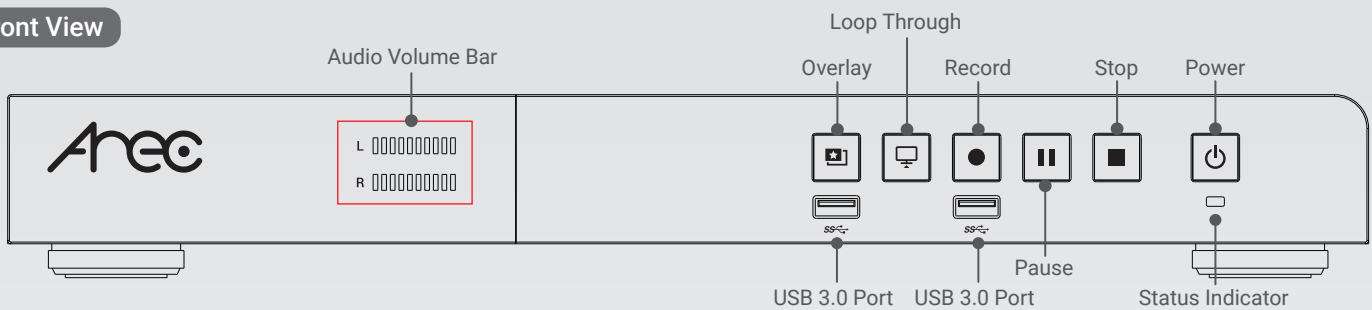


Station Manager

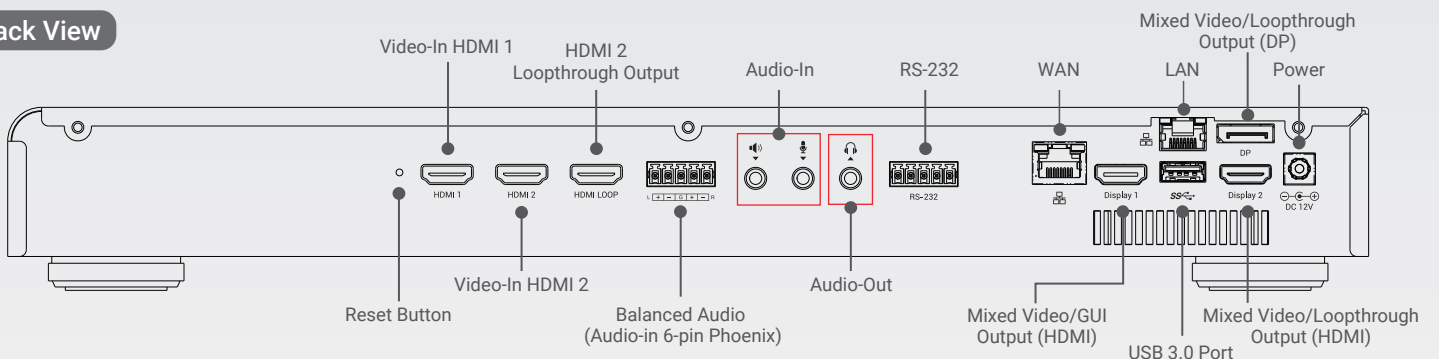


## Product Interface

### 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 Volume Bar
- 14 HDMI Display
- 15 DP Display

\* The on-screen GUI supports mouse and touch control through USB.

# Specifications

Model Name	AREC LS-410 Media Station
Input Connection	
Video Input Interface*	<ul style="list-style-type: none"> <li>• 2 x HDMI</li> <li>• 2 x RJ-45 (Supports network cameras or IP streaming : up to 4 channels)<sup>1</sup></li> <li>• 3 x USB (UVC)</li> </ul> Note 1: Supports network H.264/ H.265 (HEVC) protocol: RTMP/ RTMPS/RTP/RTSP, NDI HX, SRT(push). The RJ-45 ports can support 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	<ul style="list-style-type: none"> <li>• HDMI: 480i~2160p60</li> <li>• RTMP/RTMPS/RTP/RTSP Max.: 2160p30</li> <li>• USB(UVC) Max.: 2160p30</li> </ul>
Audio-In Channels	<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 6-pin Phoenix connector</li> <li>• 1 x USB (UAC)</li> <li>• 2 x RJ-45<sup>1</sup> (Supports digital audio inputs )</li> </ul> Note 1: Supports network protocol: RTMP/RTMPS/RTP/RTSP, NDI HX, SRT(push), and Dante 2x2
Video Processing	
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)
Audio Processing	
Compression	AAC-LC
Bit Rate	80Kbps~320Kbps
Video / Audio Outputs	
Video Outputs*	<ul style="list-style-type: none"> <li>• 1 x HDMI for loop out (Max. 4K UHD, HDMI2 loop through)</li> <li>• 1 x HDMI for preview (Max. 1080p, PGM with graphic user interface)</li> <li>• 1 x HDMI for display (Max. 4K UHD, single source or multi-source monitoring or PGM)</li> <li>• 1 x DP for display (Max. 1080p, single source or multi-source monitoring or PGM)</li> <li>• 1x RJ-45<sup>1</sup> (digital video over Ethernet)</li> </ul> Note 1: Supports network protocol: H.264/ H.265 (HEVC) RTMP/ RTMPS/RTP/RTSP, NDI HX, SRT(push). Up to 1CH 2160p streaming at 30 fps
Audio Outputs	<ul style="list-style-type: none"> <li>• 1 x 3.5mm Stereo Line out</li> <li>• 2 x HDMI</li> <li>• 1 x DP</li> <li>• 1 x RJ-45<sup>1</sup> (digital video over Ethernet)</li> </ul> Note 1: Supports network protocol: RTMP/RTMPS/RTP/RTSP, NDI HX, SRT(push), and Dante 2x2
Streaming Parameters	
Streaming Delay	1 sec.
Compatible Streaming Input Protocols	RTSP, RTP, RTMP (RTMPS), NDI HX, SRT, Dante Audio
Streaming Output Protocols	RTP, RTMP (RTMPS), RTSP, NDI HX, SRT, Dante Audio  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. 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, Opencast, Panopto, and Kaltura
Recording Layouts*	Supports up to 42 default layouts which can be adjusted by Layout Editor software.
Bookmark	Automatic and manual bookmark insertion
Background Images	Supports up to 10 default and user-uploaded images
Onscreen Overlay Images	Supports up to 10 default and user-uploaded images
Text Title	Text can be added manually via the built-in web interface
Custom Themes	Supports up to 10 themes can be created and adjusted
Live Broadcasting	
Live Broadcast to CDN or Stream Server*	Mixed video: supports RTMP (RTMPS) protocol. Streams up to 2 platforms simultaneously
Video Information Editing	
Post Video Info Editing	Yes, through the Video Manager web page
Video Info Adding	Video info will be added to the video automatically while the station finishes outputting it or uploading
Controls of LS-410 and Network Cameras	
Touch Interface	Through recommended touch screens and interactive projectors
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 ARECcloud
Camera Control	VISCA / PELCO-D / PELCO-P / VISCA over IP/ ONVIF profile S / NDI®
General Information	
Operation System	Embedded Linux system
Power Supply	12V/ 3.34A
Temperature / Humidity	0~40°C/ 90%
Dimension	401.4 mm(L) x 167.4mm(W) x 54mm(H)
Weight	2.25kg (5 lbs)
Language	SC/ TC/ English/ Russian/ Spanish/ Czech/ Korean/ Latvian/ German/ Estonian
Accessories	Power adapter/ quick guide/ ear mounts/ USB numeric keypad

\* When switching to 1080p50/60, 2160p30, and HEVC modes, there might be some function restrictions. Please refer to user manual for more details.



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