



# LS-300

## Media Station

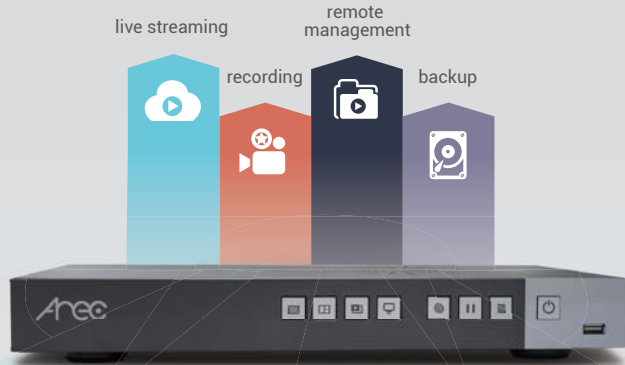


- All-in-One Device to Offer Up to 3 Full HD Video Sources Capturing, Mixing, Switching, Recording and Live Streaming
- Mobile Mini Controller and Touch-Friendly Graphical User Interface Makes Live Production Easier
- Fully Integrated with Kaltura, Panopto and Opencast Video Management Systems

# Main Features

## Easy to Create Your Live Video Like a Pro

Designer to lower the entry barriers of using professional AV equipment, AREC LS-300 is an all-in-one Media Station with reliable performance, allowing users to simultaneously capture, switch, mix, stream and record live activities in a simple and efficient way.



## Broadcast Your Mixed Video

LS-300 can stream mixed video to up to 2 platforms simultaneously, such as YouTube, Facebook, Twitch and other live broadcasting websites.



## Intuitive and Versatile Control Options

AREC Online Director supports a wide range of control options, including Web Browser (IE, Firefox, VLC), Software Application (Windows, Mac OS), Touch-Friendly Graphical User Interface, and Mini Controller from Mobile Device. All-new Mini Controller and Graphical User Interface design bring easier and faster control than ever. Control buttons on the front of LS-300 are also provided.

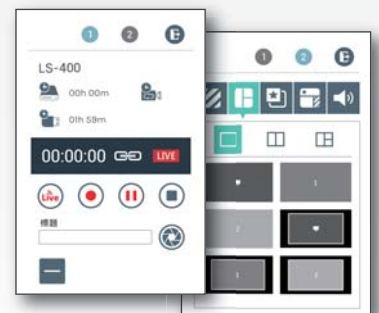
\*The on-screen GUI supports mouse device control through USB connection.



On-screen GUI & USB Interface\*



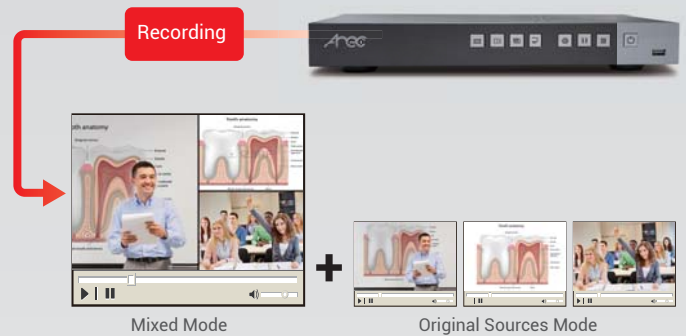
Web/ SW-based Online Director



Mini Controller from Mobile Device

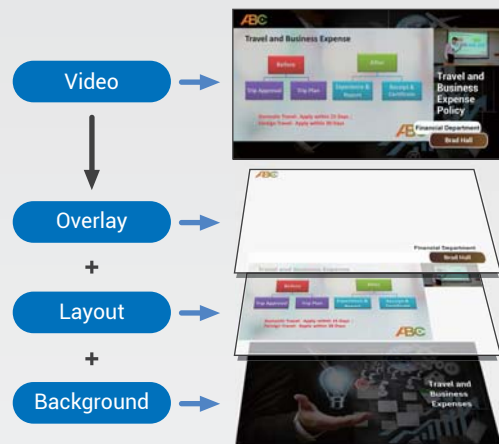
## Capture Up to 3 Video Sources at the Same Time

Via HDMI, VGA, RJ-45 interfaces or streaming inputs, AREC LS-300 supports up to 3 Full HD 1080p video inputs. Users can choose 1 mixed video plus 3 individual videos recording for flexible use. LS-300 can mix audio via HDMI, 3.5mm stereo audio jacks and AREC wireless microphone.



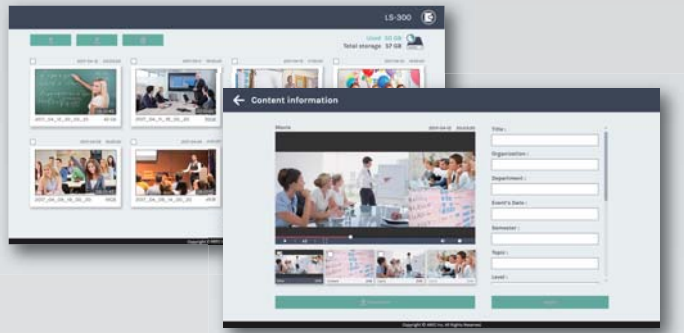
## Real-Time Assistant in Video Making

With AREC Online Director, LS-300 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 backgrounds and overlay graphics (titles) for live production.



## AREC Video Manager : Videos With Just One Click

With the built-in Video Manager, administrators or teachers can manage videos saved in the local Media Station remotely. They can download, upload or delete a video file, and edit video information. With available APIs, all of the video content, metadata, and thumbnail can be delivered seamlessly for third party integration.



## Backup & Upload Your Recordings

With internal 1 TB hard drive, LS-300 can save hundreds of hours recording videos. To increase security, LS-300 can automatically backup or upload recordings to AREC Media-Center, FTP, SFTP, Opencast, Kaltura, Panopto and so on.



SATA 1TB HDD

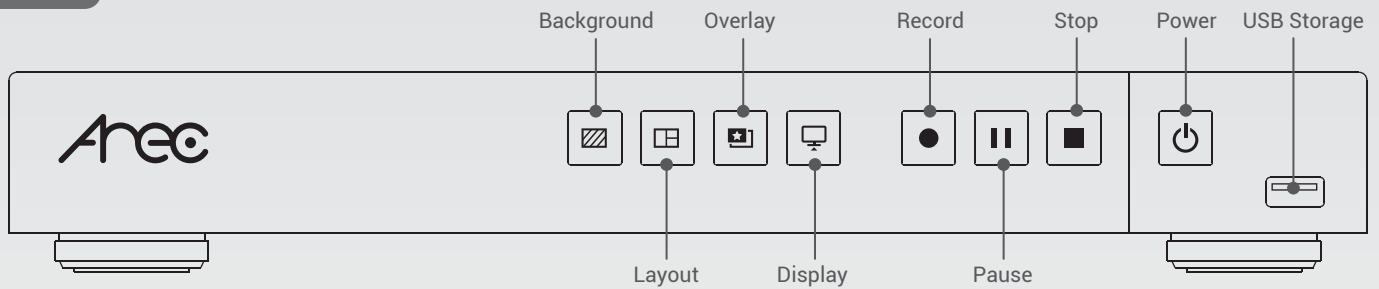


OPENCAST Panopto KALTURA  
FTP Backup

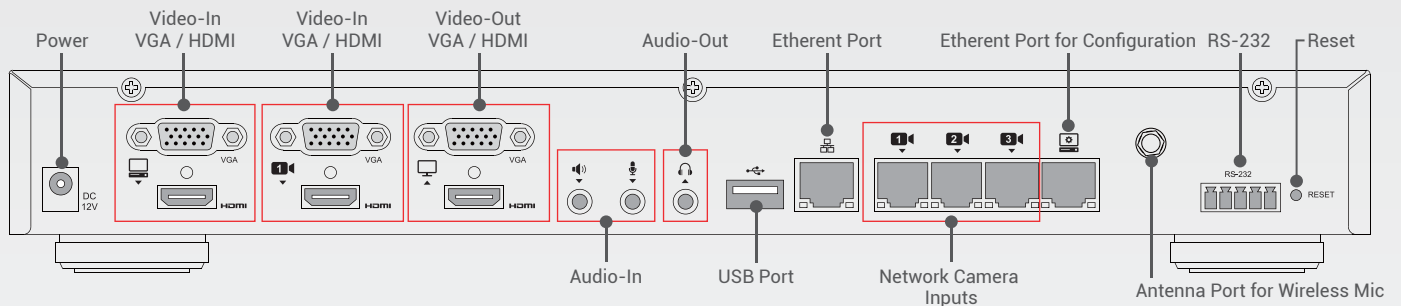


## Product Interface

### 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 LS-300 IP Address
- 12 Audio Volumn Bar
- 13 Display Switch

# Specifications

Model Name	AREC LS-300 Media Station
<b>Input Connection</b>	
Video Input Interface	HDMI / VGA / RJ-45 (Supports AREC full HD network camera)
	Note: Supports DVI and component video cable inputs with appropriate DVI to HDMI or component to VGA adaptors
Max. Video-In Channels	Maximum 3 channel synchronized recording
	HDMI / VGA: up to 2 channels Full HD network camera: up to 3 channels
Resolution Range	HDMI: 480i~1080p60 VGA: 480i~1080p60 RTP/ RTMP/ RTSP, Max.: 1080p
	3.5mm Stereo Mic in: 1 channel; 3.5mm Stereo Line in: 1 channel; Wireless Mic: 1 channel; HDMI: 2 channels
<b>Video Processing</b>	
Compression	H.264 / AVC
Frame Rate	Max. 30fps
Bit Rate	300Kbps~4Mbps
Resolution	Max. 1080p (640x360 ~ 1920x1080)
<b>Audio Processing</b>	
Compression	AAC-LC
Bit Rate	80Kbps~320Kbps
<b>Video / Audio Outputs</b>	
Video Outputs	1x HDMI display port 1x VGA display port (1 output option from loop-through, inputs monitoring and multi-source display) 2x H.264/AVC digital video over Ethernet
	Note: on-screen GUI is selectable between HDMI and VGA display port
Max. Output Resolution	1080p60
Audio Outputs	3.5mm Stereo Line out: 1 channel; HDMI: 1 channels
<b>Streaming</b>	
Streaming Delay	1 sec.
Compatible Streaming Input Protocols	RTSP, RTP, RTMP
Streaming Output Protocols	RTP, RTMP (RTMPS), RTSP
	Note: 1. Users can choose 1 output option from RTP or RTMP only 2. RTP: MPEG2-TS over RTP unicast; MPEG2-TS over RTP multicast 3. RTSP (TCP/ UDP): Max 6 clients RTSP streams available via public URL (example: pulled streams)
<b>Storage, Backup, and Compatibility</b>	
Built-in Local Storage	1TB 2.5" SATAIII Hard Drive
External Storage	Supports USB drive recording through the front port
Locally Stored File Format	MP4
FTP Backup	Automatic backup to an FTP or SFTP server after recording is done
Third-Party Software Server	Compatible with Opencast, Panopto, and Kaltura

<b>Recording</b>	
Recording Modes	Mixed mode, 1 Mixed + 3 individual original sources
Recording Layouts	Multiple layouts for pre-defined, including full screen / picture-in-picture / picture-by-picture / multi-channel split screen
Bookmark	Automatic and manual bookmark insertion
Background Images	Multiple for user-defined
On-Screen Images	Multiple for user-defined
Custom Themes	Multiple for user-defined, setting from web-based back stage
<b>Live Broadcasting</b>	
Live Broadcast to CDN or Stream Server	Yes, support RTMP (RTMPS) protocol. Stream up to 2 platforms simultaneously
<b>Video Information Editing</b>	
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
<b>Controls of LS-300 and Network Camera</b>	
Touch Interface	Through recommended touch screen, interactive projector, or interactive module
Mouse Device and Numeric Keypad	Through USB interface connection
Video Switcher	Yes, through AREC Online Director (web-based or desktop applications) 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 Management: through web-based control interface
Camera Control	VISCA / PELCO-D / PELCO-P / ONVIF profiles
<b>General Information</b>	
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
Accessories	Power adapter / quick guide / wireless Mic antenna
<b>Recommended AREC Products</b>	
AREC Auto-Tracking System AREC Network Camera CI Series AREC Wireless Microphone	



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 AREC reserves the right to modify product specifications without prior notice.