



# LS-200

## Media Station



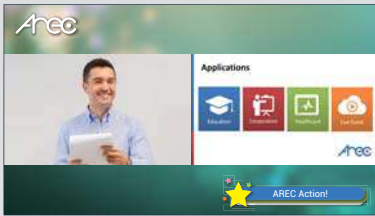
- 2 Video Sources Mixing, Switching, Recording and Live Streaming
- Supports Automated and Scheduled Recording/Streaming
- Fully Integrated with Kaltura, Panopto and Opencast Video Management Systems

## Main Features

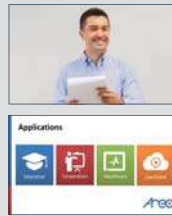
### Capture Up to 2 Video Sources at the Same Time

Via HDMI, VGA, RJ-45 interfaces or streaming inputs, AREC LS-200 supports up to 2 Full HD 1080p video sources capturing, mixing, switching, recording and live streaming. Users can choose 1 mixed video plus 2 individual videos recording for flexible use. LS-200 can mix audio via HDMI, 3.5mm stereo audio jacks and balanced input with a 6-pin Phoenix connector.

Mixed Recording



Original Sources



### Adding Titles & Graphics to Your Video

With LS-200, users can easily switch and mix between sources, add or remove logos, backgrounds, overlay graphics, and subtitles to create their own custom and professional lecture video.

Video

Overlay/ Subtitle

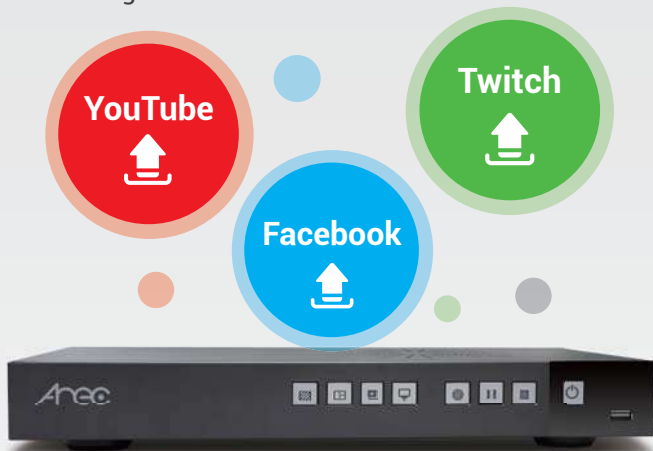
Layout

Background



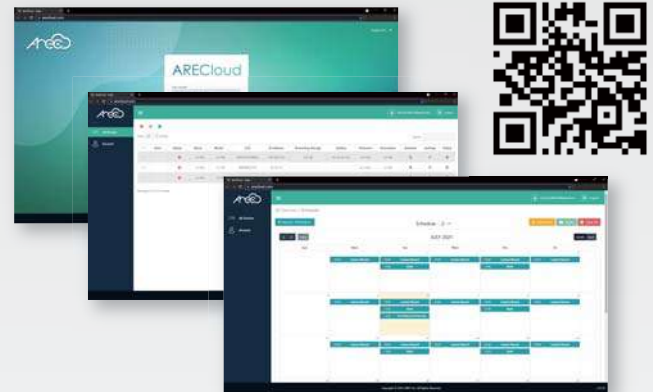
### Broadcast Your Mixed Video

LS-200 can stream mixed video to up to 2 platforms simultaneously, such as YouTube, Facebook, Twitch and other live broadcasting websites.



### ARECloud: Your Remote Control Center

With ARECloud, a free cloud service, administrators can easily monitor and control multiple AREC Media Stations in your campus or enterprise, including changing the recording themes or starting recording.



### Versatile Control Options and Remote Management Tools

LS-200 comes with numerous control options, including AREC Online Director web page (Chrome, Edge, IE), software-based Online Director application (Windows, Mac OS), Interactive Graphical User Interface (GUI), and Mini Controller web interface for mobile devices. Control buttons on the front of LS-200 are also provided. LS-200 is also fully compatible with free to use AREC software and cloud service for remote management, such as Station Manager and ARECloud.



On-screen GUI & USB Interface\*



Web/ SW-based Online Director

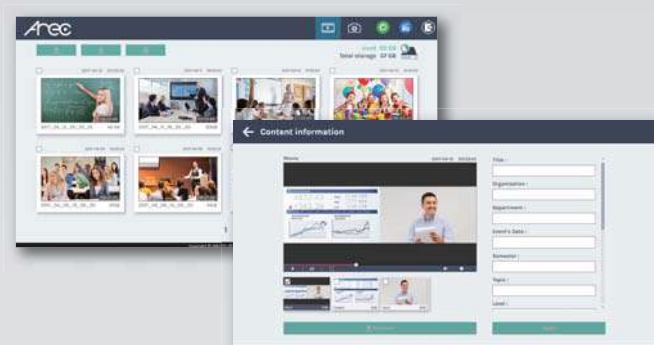


Mini Controller from Mobile Device

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

## AREC Video Manager: Videos with Just One Click

With the built-in Video Manager, administrators or teachers can manage videos stored in the local LS-200 Media Station remotely. They can download, upload or delete video files, and edit video metadata. With available APIs, all of the metadata, thumbnail and video content can be delivered seamlessly for integration.



## Recording and Backup

LS-200 is integrated with Panopto, Kaltura, and Opencast platforms\*. With internal 1TB hard drive, LS-200 can save hundreds of hours recording videos. It supports automatic backup and upload of recordings after their completion to AREC MediaCenter, FTP and SFTP servers, and NAS can be used for storage.



SATA 1TB HDD

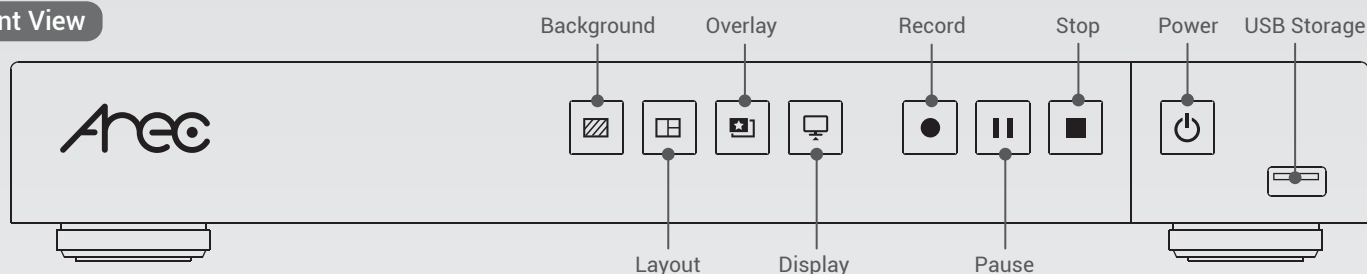


FTP/ SFTP Backup

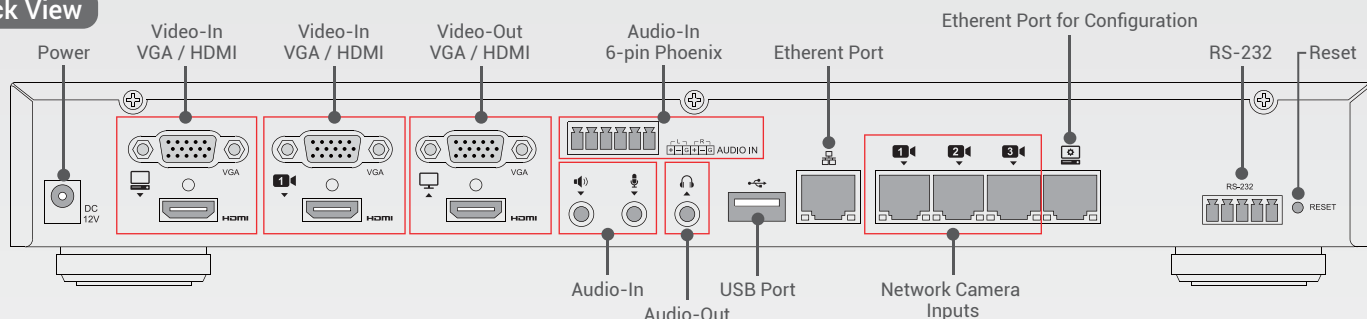
\* Users will need to have a valid account on Opencast, Panopto, or Kaltura to use these platforms together with LS-200.

## 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-200 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-200 Media Station                                                                                                                                                                                                                    |
| Video Inputs                         |                                                                                                                                                                                                                                              |
| Video-in Interface                   | HDMI: 2 channels/ VGA: 2 channels<br>RJ-45: 4 channels (supports Full HD network camera/ IP streaming)                                                                                                                                       |
|                                      | Note: Compatible with DVI and Component signals via using DVI to HDMI or Component to VGA adaptor cable                                                                                                                                      |
| Max. Video-In channels               | Maximum 2 channels synchronized recording                                                                                                                                                                                                    |
|                                      | HDMI/VGA: up to 2 channels<br>Full HD network camera: up to 2 channels                                                                                                                                                                       |
| Resolution Range                     | HDMI: 480i~1080p60<br>VGA: 480i~1080p60<br>RTP/ RTMP/ RTSP, Max.: 1080p30                                                                                                                                                                    |
| Audio-in Channels                    | 3.5mm Stereo Mic in: 1 channel;<br>3.5mm Stereo Line in: 1 channel;<br>HDMI: 2 channels<br>Balanced audio-in with a 6-pin Phoenix connector                                                                                                  |
| Video Processing                     |                                                                                                                                                                                                                                              |
| Compression                          | H.264 / AVC                                                                                                                                                                                                                                  |
| Frame Rate                           | Max. 30fps                                                                                                                                                                                                                                   |
| Bit Rate                             | 300Kbps~8Mbps                                                                                                                                                                                                                                |
| Resolution                           | Max. 1080p (640x360 ~ 1920x1080)                                                                                                                                                                                                             |
| Audio Processing                     |                                                                                                                                                                                                                                              |
| Compression                          | AAC-LC                                                                                                                                                                                                                                       |
| Bit Rate                             | 80Kbps~320Kbps                                                                                                                                                                                                                               |
| Video / Audio Outputs                |                                                                                                                                                                                                                                              |
| Video Outputs                        | 1x HDMI display port<br>1x VGA display port<br>(1 output option from loop-through, inputs monitoring and multi-source display)<br>2x H.264/AVC digital video over Ethernet                                                                   |
|                                      | Note: on-screen GUI is selectable between HDMI and VGA display port                                                                                                                                                                          |
| Audio Outputs                        | 3.5mm Stereo Line out: 1 channel;<br>HDMI: 1 channel                                                                                                                                                                                         |
| Max. Output Resolution               | HDMI/ VGA: 1080p60                                                                                                                                                                                                                           |
| Streaming                            |                                                                                                                                                                                                                                              |
| Streaming Delay                      | 1 sec.                                                                                                                                                                                                                                       |
| Compatible Streaming Input Protocols | RTSP, RTP, RTMP                                                                                                                                                                                                                              |
| Streaming Output Protocols           | RTP, RTMP (RTMPS), RTSP                                                                                                                                                                                                                      |
|                                      | Note:<br>1. users can choose 1 output option from RTP or RTMP only<br>2. RTP: MPEG2-TS over RTP unicast; MPEG2-TS over RTP multicast<br>3. RTSP (TCP/ UDP): Max 6 clients<br>RTSP streams available via public URL (example: pulled streams) |
| Storage, Backup, and Compatibility   |                                                                                                                                                                                                                                              |
| Built-in Local Storage               | 1TB 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                                                                                                                                                                                                                                    |
| Third-Party Video Management System  | Compatible with Opencast, Panopto and Kaltura                                                                                                                                                                                                |

|                                        |                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Recording                              |                                                                                                                                       |
| Recording Modes                        | Mixed mode, 1 Mixed + 2 individual original sources                                                                                   |
| Scheduled Recording                    | Yes, supports iCalendar format (.ics file) for automatic recording/streaming, 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                                                                                             |
| Subtitle                               | 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 | Yes, 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 can be added automatically before the video is recorded. Manual input is available before and after the recording finishes |
| Controls of LS-200 and Network Cameras |                                                                                                                                       |
| Touch Interface                        | Touch control is supported via USB connection                                                                                         |
| 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 port and TCP protocol                                                                                            |
| Control Button                         | Yes, at the front of the media station                                                                                                |
| Video Manager Platform                 | Yes, through built-in web interface                                                                                                   |
| Group Management                       | Available via ARECloud (upgrading firmware to v2.11 version or above)                                                                 |
| Camera Control                         | VISCA/ PELCO-D / PELCO-P/ VISCA over IP/ ONVIF Profile S                                                                              |
| General Information                    |                                                                                                                                       |
| Operation System                       | Embedded Linux system                                                                                                                 |
| Power Supply                           | 12V / 2A                                                                                                                              |
| Temperature / Humidity                 | 0~40°C / 90%                                                                                                                          |
| Dimensions                             | 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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