

LS-US2N Media Station



- Mixing, Switching, Recording and Live Streaming for 2 USB and Network Sources
- NDI|HX Support for NDI-based Video Production
- Supports 1080p Full HD Resolution, USB Speakerphones, Interactive Touch Displays, and More

Main Features

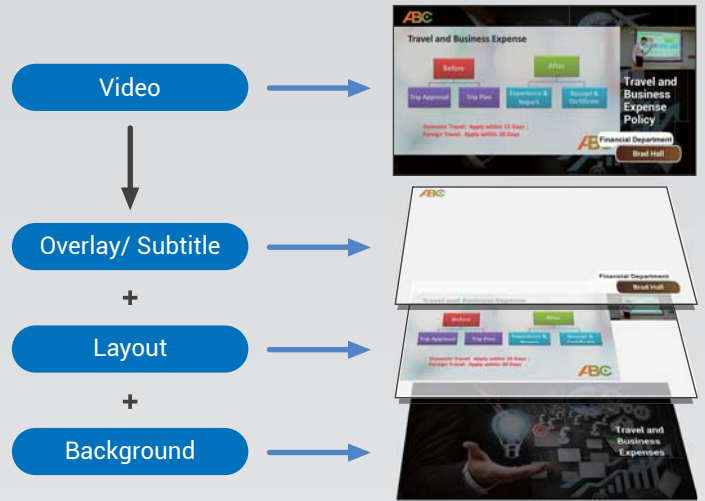
Easy to Record and Stream a Professional Video

AREC LS-US2N, a compact and all-in-one Media Station, supports capturing, switching, mixing, recording and simultaneously live streaming 2 Full HD video sources. LS-US2N supports RTMP based platforms like YouTube, Facebook, Twitch, Wowza, and other CDNs straight from the box.



Adding Titles & Graphics to Your Video

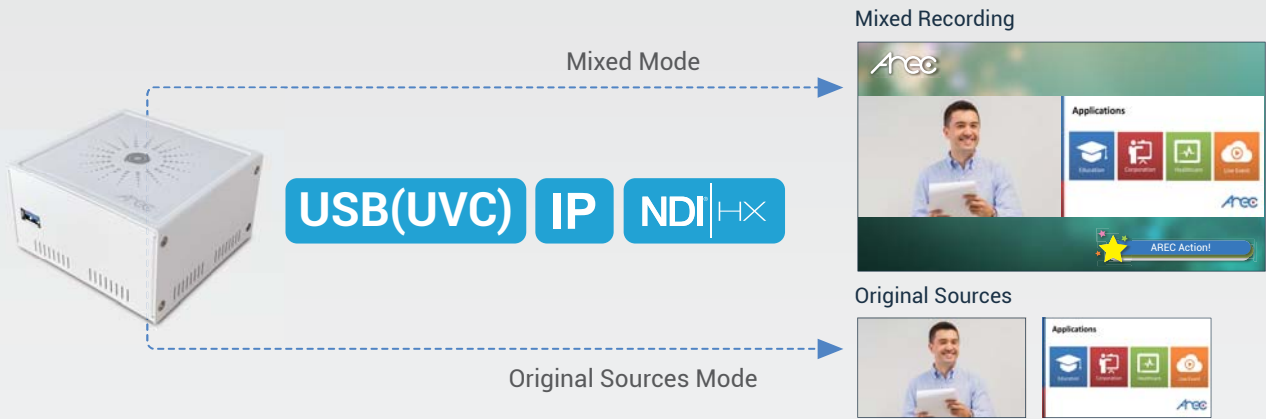
With LS-US2N, users can easily switch and mix between sources, add or remove logos, backgrounds, overlay graphics, and subtitles to create their own custom and professional lecture video.



Capture Up to 2 Video Sources in a Layout of Your Choosing

Mix USB (UVC)*, RJ-45 LAN camera and streaming inputs together with USB (UAC) audio and create a complete mixed video plus 2 individual video channel recordings with a push of one button. LS-US2N is compatible with network-based H.264 RTMP/ RTP/ RTSP (video only) and NDI|HX sources.

* LS-US2N comes in a bundle with an HDMI-to-USB (UVC) dongle that allows the device to support video input from HDMI sources like computers and interactive boards.



Intuitive and Versatile Control Options

LS-US2N comes with numerous control options, including AREC Online Director web page (Chrome, Edge, IE), Interactive Graphical User Interface (GUI), and Mini Controller web interface for mobile devices. LS-US2N is also fully compatible with free to use AREC software, such as Online Director Application, Station Manager, and others. AREC also provides an APK for additional integration with interactive flat panel displays.**



On-screen GUI & USB Interface*



Web/ SW-based Online Director



Mini Controller from Mobile Device



AREC Recording APK for Android Interactive Whiteboards

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

**Please contact your sales representative for more information.

AREC Video Manager: Videos with Just One Click

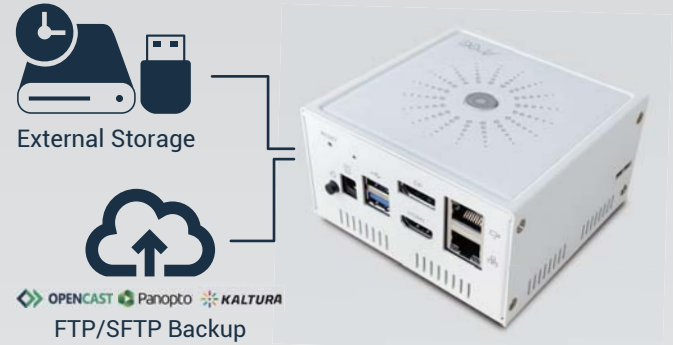
With the built-in Video Manager, administrators or teachers can manage videos stored in the local LS-US2N Media Station remotely. They can download, upload or delete video files, and edit video metadata.



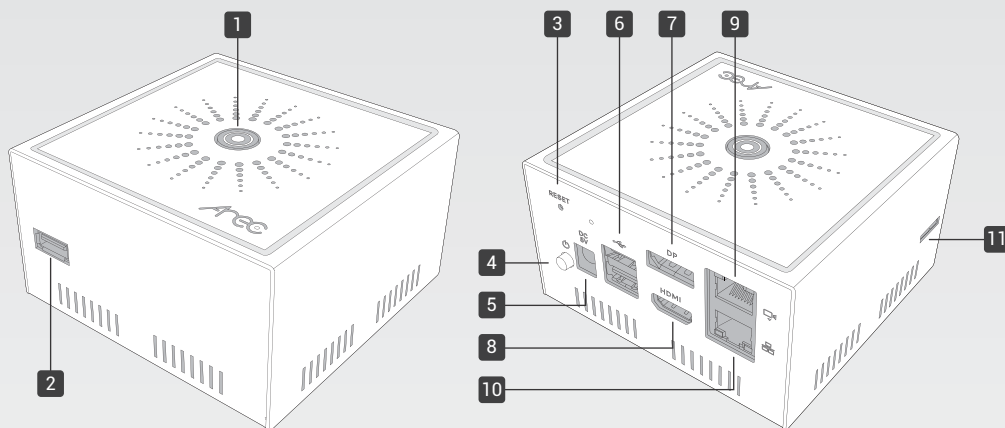
Recording and Backup

LS-US2N* is integrated with Panopto, Kaltura, and Open-cast platforms. It can also record and save videos on a connected USB storage. It supports automatic backup and upload of recordings after their completion to AREC MediaCenter, FTP, and SFTP servers, and can use NAS for storage.

* Users will need to have a valid account on Opencast, Panopto, or Kaltura to use these platforms together with LS-US2N.



Product Appearance and Interfaces



- 1 Record Button
- 2 USB Storage
- 3 Reset Port
- 4 Power Button
- 5 Power Port
- 6 USB-In
- 7 DP-Out
- 8 HDMI-Out
- 9 Ethernet Port (LAN)
- 10 Ethernet Port (WAN)
- 11 USB 3.0 Micro B Port

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-US2N 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-US2N Media Station |
| Input Connection | |
| Video-in Interface | USB (UVC): 2 channels RJ-45: 2 channels (supports AREC Full HD network camera) IP Streaming: 2 channels |
| | Note: 1. Supports HDMI inputs with bundled HDMI-to-USB (UVC) dongle 2. Supports network protocol: H.264 RTMP/ RTP/ RTSP and NDI HX |
| Max. Video-in Channels | Maximum 2 channels synchronized recording |
| Resolution Range | Up to 1080p60, multiple codec resolution available RTP/ RTMP/ RTSP/ NDI HX, Max.: 1080p30 |
| Audio-in Channels | USB (UAC): 1 channel / IP Audio: 2 channels Note: Supports network protocol: H.264 RTMP/ RTP and NDI HX |
| Audio Mixing | Mix multiple audio input sources into 1 |
| Video Processing | |
| Compression | H.264/ AVC/ NDI HX |
| 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 (GUI with 1 output option from PGM, inputs monitoring and mixing display) 1x DisplayPort 2x H.264/AVC digital video over Ethernet |
| Audio Outputs | 1x HDMI 1x DisplayPort |
| Max. Output Resolution | 1080p60 |
| Streaming | |
| Streaming Delay | 1 sec. |
| Compatible Streaming Input Protocols | RTSP, RTP, RTMP, NDI HX |
| Streaming Output Protocols | RTP, RTMP (RTMPS), RTSP, NDI HX |
| | 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) |
| Storage, Backup, and Compatibility | |
| External Storage | Supports USB drive recording through the front port. NAS storage is also supported |
| Locally Stored File Format | MP4 |
| Backup | FTP/ SFTP/ NAS |
| Third-Party Video Management System | Integrated with Opencast, Panopto and Kaltura |
| Live Broadcasting | |
| Live Broadcast to CDN or Stream Server | Yes, supports RTMP (RTMPS) protocol. Stream up to 2 platforms simultaneously |

| | |
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| 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 are available, including full screen/ picture-in-picture/ picture-by-picture |
| Bookmark | Automatic and manual bookmark insertion |
| Background Images | Multiple default and user-uploaded images are supported |
| On-Screen Overlay Images | Multiple default and user-uploaded images are supported |
| Subtitle | Text can be added manually via the built-in web interface |
| Custom Themes | Multiple themes can be created via the built-in web interface |
| Video Information Editing | |
| Post Video Info Editing | Yes, through Video Manager web page |
| Video Info Adding | Video information can be added automatically before the video is recorded. Manual input is available before and after the recording finishes |
| Controls of LS-US2N and Network Camera | |
| 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 SW-based applications) or on-screen GUI for manual controls |
| Mini Controller | Through mobile web browser and wireless connection for manual controls |
| External Control | Yes, supports TCP protocol |
| Interactive Whiteboard Control | Yes, through AREC Recording APK for Android systems |
| Video Manager Platform | Built-in web interface called Video Manager |
| Group Management | Available via ARECloud |
| Camera Control | VISCA over IP/ ONVIF profile S/ NDI® |
| General Information | |
| Operation System | Embedded Linux system |
| Power Supply | 5V |
| Temperature / Humidity | 0~40°C / 90% |
| Dimension | 98mm(L) x 95mm(W) x 55mm(H) |
| Weight | 480g |
| Language | SC / TC / English/ Russian/ Spanish/ Czech/ Korean/ Latvian/ German/ Estonian |
| Accessories | Power adapter / quick guide / HDMI-to-USB dongle |



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