

# 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

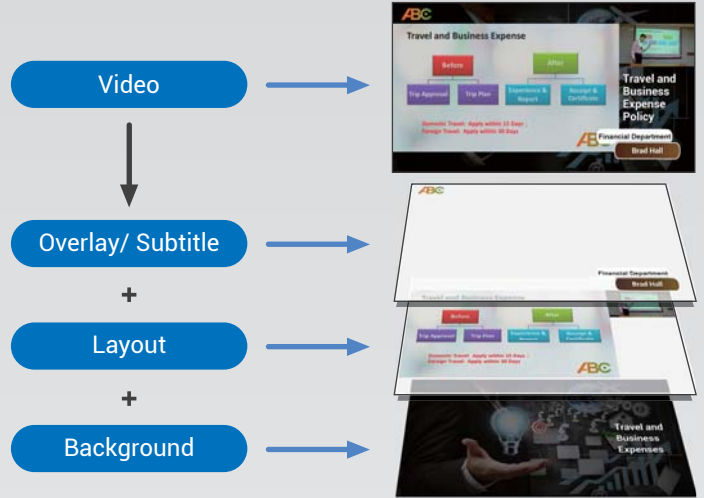
## Easy to Record and Stream a Professional Video

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

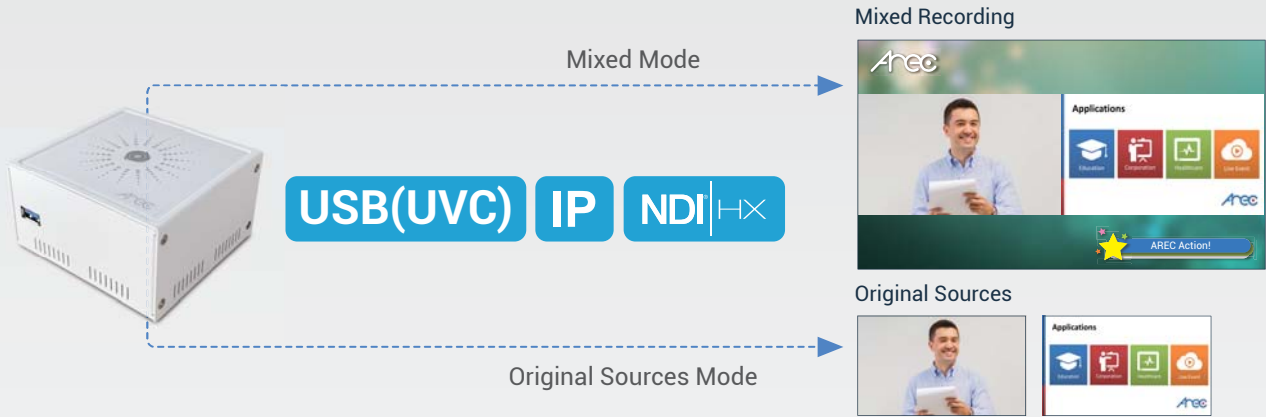
With LS-US2N, users can easily switch and mix between sources, add or remove logos, backgrounds, overlay graphics, and subtitles to create their own custom and professional lecture video.



## 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

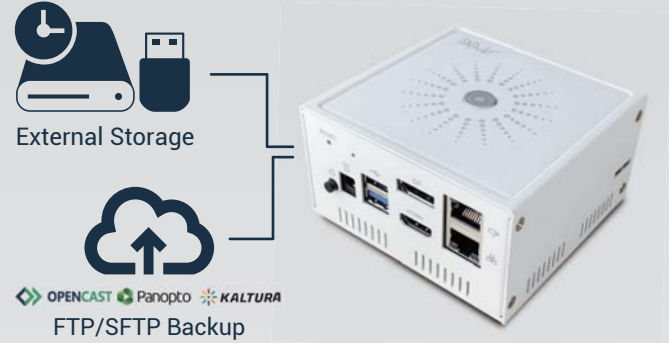
With the built-in Video Manager, administrators or teachers can manage videos stored in the local LS-US2N Media Station remotely. They can download, upload or delete video files, and edit video metadata.



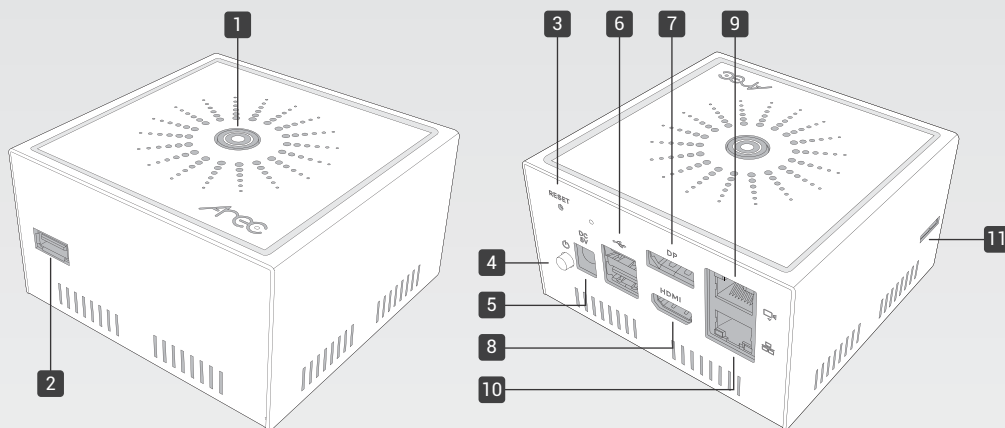
## Recording and Backup

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
<b>Input Connection</b>	
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
<b>Video Processing</b>	
Compression	H.264/ AVC/ NDI HX
Frame Rate	Max. 30fps
Bit Rate	300Kbps~8Mbps
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 (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
<b>Streaming</b>	
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)
<b>Storage, Backup, and Compatibility</b>	
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	Integrated with Opencast, Panopto and Kaltura
<b>Live Broadcasting</b>	
Live Broadcast to CDN or Stream Server	Yes, supports RTMP (RTMPS) protocol. Stream up to 2 platforms simultaneously

<b>Recording</b>	
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
<b>Video Information Editing</b>	
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
<b>Controls of LS-US2N and Network Camera</b>	
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®
<b>General Information</b>	
Operation System	Embedded Linux system
Power Supply	5V
Temperature / Humidity	0~40°C / 90%
Dimensions	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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