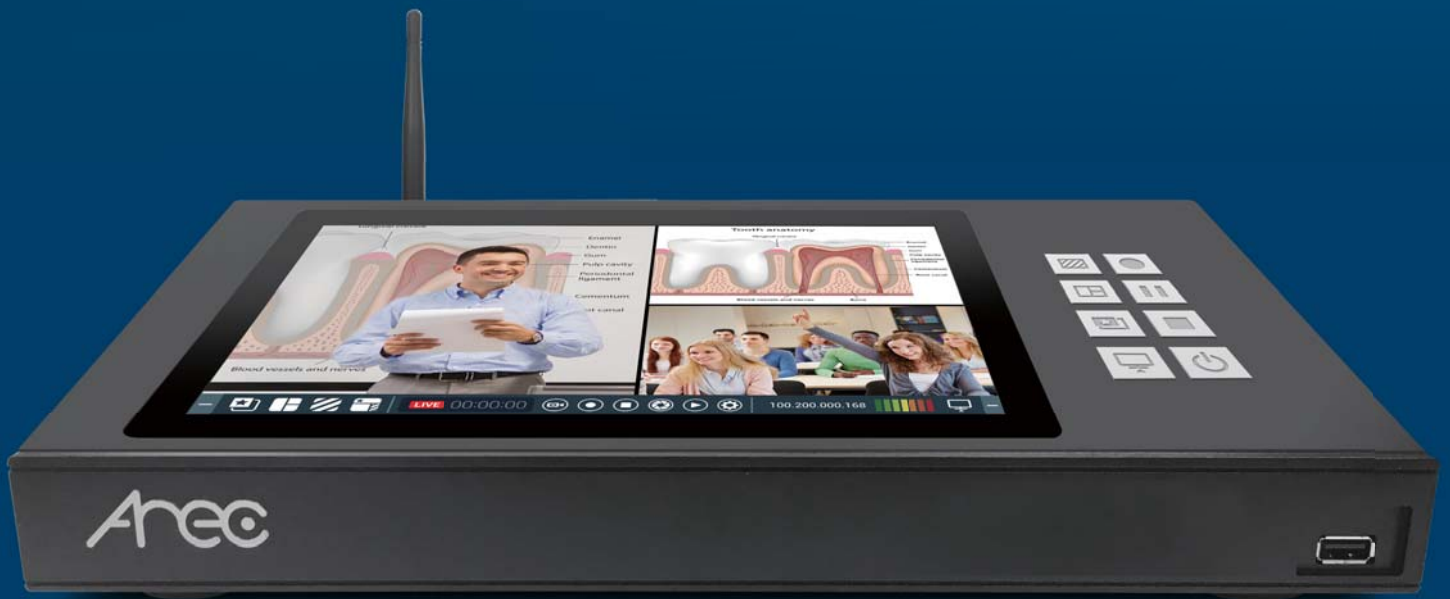# AREC KL-3
Portable Media Station

- All-in-One Device with 10.1-inch Panel to Offer Up to 3 Full HD Video Sources Capturing, Mixing, Switching, Recording and Live Streaming
- Portable Design for Easy Move and Place

Main Features

Capture Up to 3 Video Sources at the Same Time

Via HDMI, VGA, RJ-45 interfaces or streaming inputs, KL-3 supports multiple video and audio recording at once. As users choose "mixed plus original sources mode" recording, KL-3 can provide 1 mixed video and 3 individual source videos for flexible use.

Recording

Mixed Mode   +   Original Sources Mode

Portable Design for Easy Move

With 10.1" LCD screen, AREC KL-3 is a portable and all-in-one Media Station, allowing users to simultaneously capture, switch, mix, stream and record live/multi-sources events in demanding portable applications∗.

∗ KL Travel Case is the optional accessory.

Real-Time Assistant in Video Making

With AREC Online Director or on-screen GUI, KL-3 makes users easily switch and mix between sources, add or remove logos, backgrounds and overlay graphics (titles) for live production.

Overlay
+
Layout
+
Background

Broadcast Your Mixed Video

KL-3 can stream mixed video to up to 2 platforms simultaneously, such as YouTube, Facebook, Twitch and other live broadcasting websites.

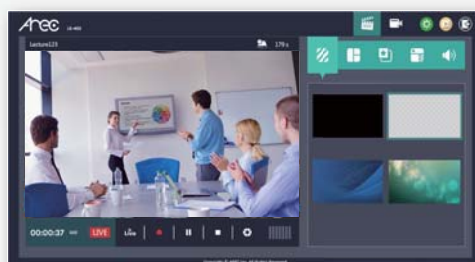YouTube   UStream   Facebook   Twitch

Intuitive and Versatile Control Options

AREC Online Director supports a wide range of control options, including Web Browser (IE, Firefox), Software Application (Windows, Mac OS), Touch-Friendly Graphical User Interface(GUI)∗, and Mini Controller from Mobile Device. With Mini Controller, AREC KL-3 can be accessed via browsers on Android or iOS phones and tablets – no particular apps required. Control buttons on the front of KL-3 are also provided.
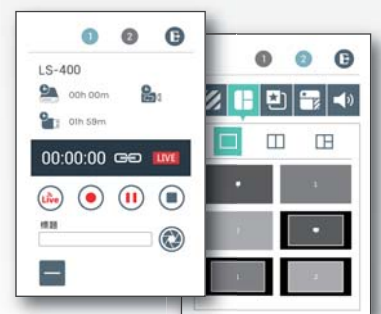
∗The on-screen GUI supports mouse device control through USB connection.

On-screen GUI & USB Interface∗   Web/ SW-based Online Director   Mini Controller from Mobile Device

AREC Video Manager: Videos with Just One Click

With the built-in video management platform, administrators or teachers can manage videos stored 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.
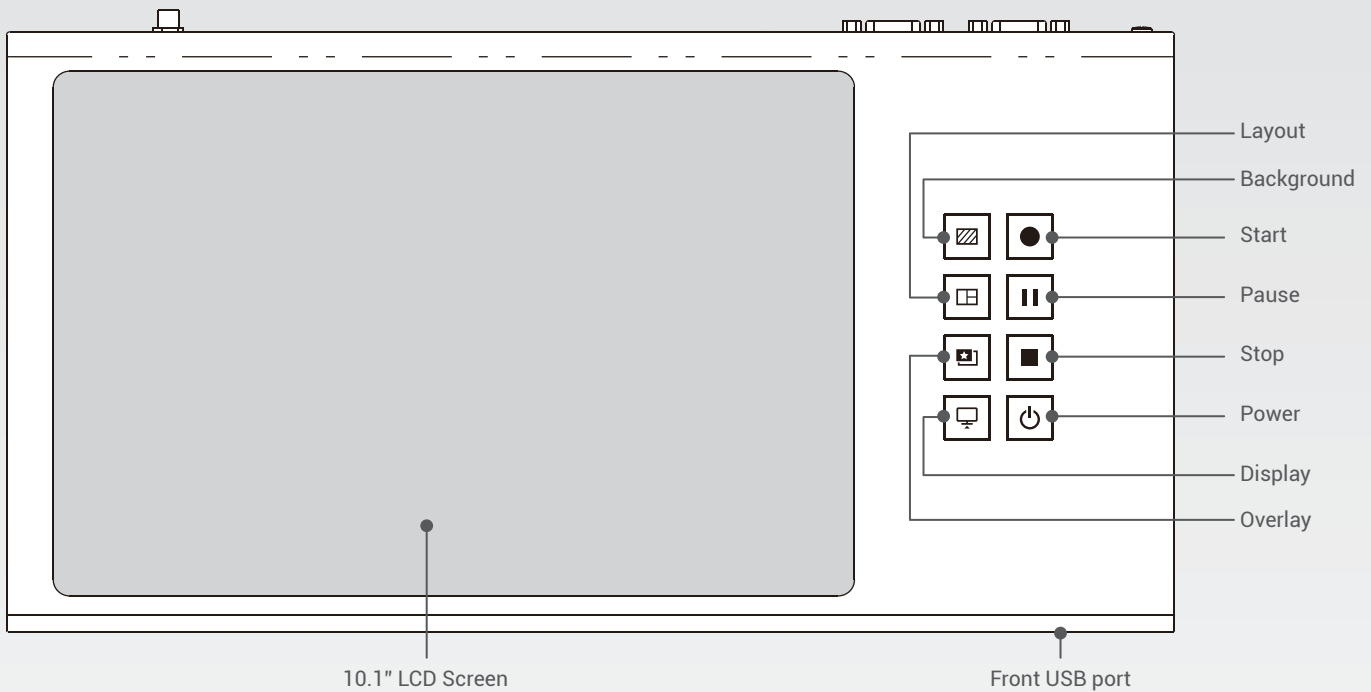
Backup Your Recordings

With internal 1TB hard drive, KL-3 can save hundreds of hours recording videos. To increase security, KL-3 can automatically backup or upload recordings to AREC MediaCenter, FTP, SFTP, Opencast, Kaltura, Panopto and so on.

Built-in SATA 2.5" HDD Storage

Cloud Server

Product Interface

Top View

Layout
Background
Start
Pause
Stop
Power
Display
Overlay

10.1" LCD Screen

Front USB port

Back View

Audio-In

Audio out

Network Camera Inputs / Web-Based Back Stage

Antenna Port for wireless Mic

Network Port

Power

Video-In VGA/HDMI

HDMI Display Output

RS-232 Interface Port

Reset to Default
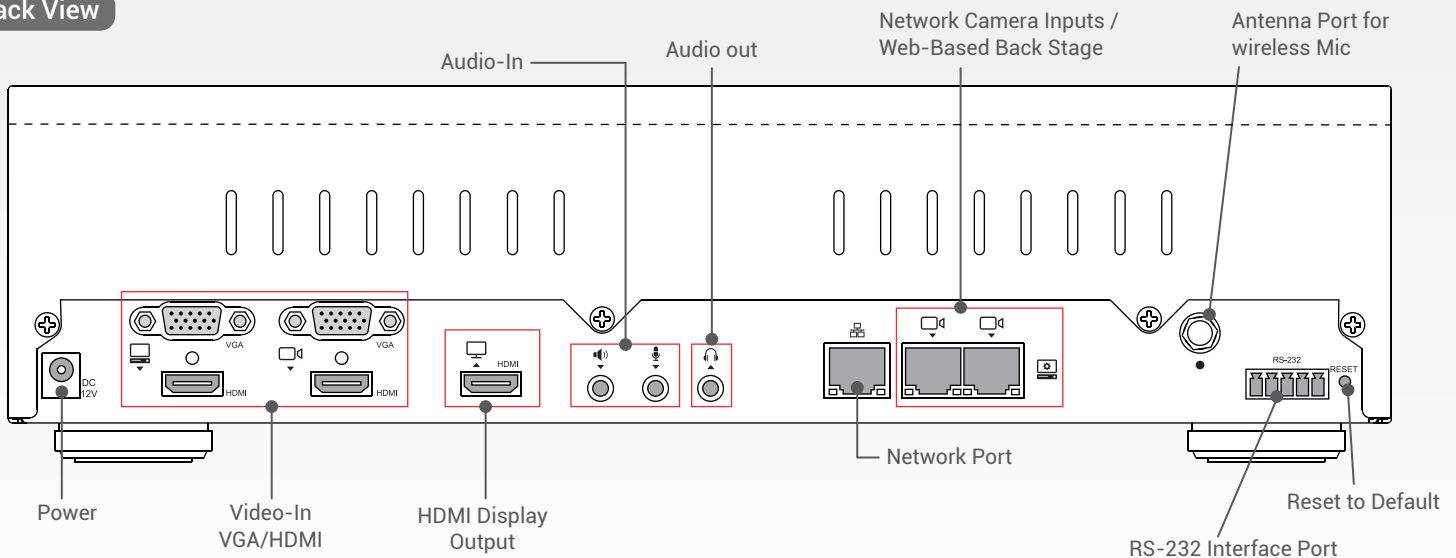
Specifications

Model Name	AREC KL-3 Media Station
Video Inputs	
Video Input Interface	HDMI/ VGA/ RJ-45(Supports AREC Full HD network camera and IP streaming)
	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 2 channels
Resolution Range	HDMI: 480i~1080p60 VGA Video: 480i~1080p60
Video Processing	
Compression	H.264/ AVC
Frame Rate	Max. 30fps
Bit Rate	300Kbps~8Mbps
Resolution	Max. 1080p (640x360 ~ 1920x1080)
Audio Inputs	
Audio-in Channels	3.5mm Stereo Mic in: 1 channel; 3.5mm Stereo Line in: 1 channel; Wireless Mic: 1 channel; HDMI: 2 channels
Audio Processing	
Compression	AAC-LC
Bit Rate	80Kbps~320Kbps
Video / Audio Outputs	
Built-in LCD Display	10.1" 1280x800 TFT LCD Panel
Video Output	1x HDMI display port 2x H.264/AVC digital video over Ethernet
	Note: on-screen GUI is selectable between HDMI and built-in screen
Output Resolution	1080p60
Audio Outputs	3.5mm Stereo Line out: 1 channel; HDMI: 1 channel
Streaming / Main System Output	
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)
Storage, Backup, and Compatibility	
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

Recording	
Recording Modes	Mixed mode, 1 Mixed + 3 individual original sources
Recording Layouts	21 layouts for user-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 Theme	Multiple for user-defined, setting from web-based back stage
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 will be added on video file name automatically while file output or uploading
Controls of KL-3 and Network Camera	
Mouse Device and Numeric Keypad	Through USB interface connection
Video Switcher	Yes, through AREC Online Director (web-based or desktop applications) and 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 Button	Yes, on the front of the media station
Video Management Platform	Built-in video management platform: through web-based control interface
Camera Control	VISCA/ PELCO-D/ PELCO-P/ ONVIF Profile S
General Information	
Operation System	Embedded Linux system
LCD Screen	Yes, built-in 10.1" LCD screen
Power Supply	12V/ 3A
Temperature / Humidity	0~40°C/ 90%
Dimension	354mm(L) x 188.2mm(W) x 91.4mm(H)
Weight	2.65kg(5.84lbs)
Language	SC/ TC/ English/ Russian/ Spanish/ Czech/ Korean/ Latvian
Accessories	Power adapter / wireless Mic antenna / quick guide / VGA line / HDMI line / RJ-45 line / Terminal Block / HDMI to VGA converter*

* Please use genuine original AREC HDMI to VGA converter