



# AREC KL-3W

## Media Station



KL-3W Portable Media Set

- All-in-One Device with 7" LCD Display to Offer Up to 3 Full HD Video Sources Capturing, Mixing, Switching, Recording and Live Streaming
- Wire-Free and Portable Design for Easy Move and Place
- Complete Bundle Package. Perfect Out-of-the-Box Experience

# Wireless and Portable Media Capture Solution

AREC KL-3W is a lightweight, wireless, portable and all-in-one Media Station, allowing users to simultaneously capture, switch, mix, stream and record live activities in a simple and efficient way.

Bundle with AREC Wireless Full HD Network Cameras, Wireless Microphone, Mini Travel Tripods, and Hand-Carry Case, AREC KL-3W Portable Media Set\* is the most convenient and complete media capture solution on the market.



## Main Features

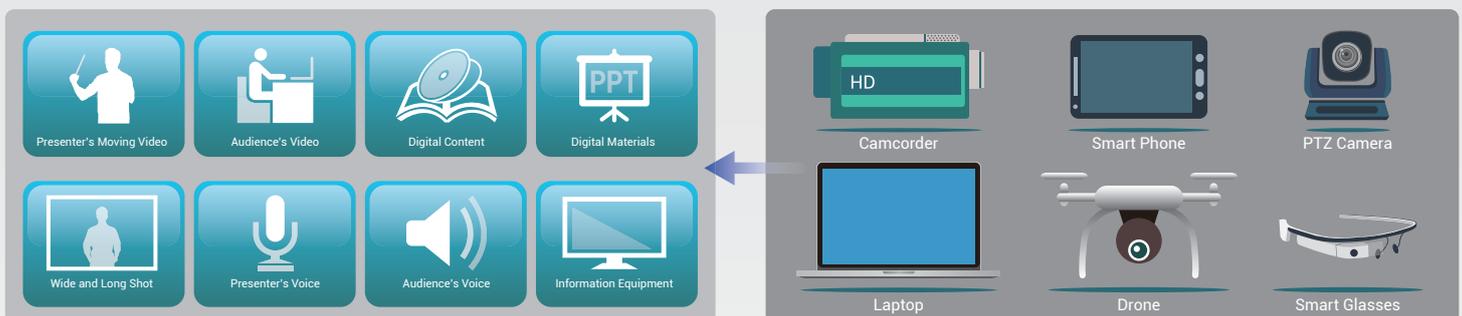
### Capture Up to 3 Video Sources at the Same Time

KL-3W supports capturing up to 3 video sources through HDMI / VGA/ RJ45 interfaces\*. Through suggested video streaming app, KL-3W also can receive live videos from iOS or Android smart phone and tablet. It allows users to add a video source via mobile phone camera or other novel device.

With this new feature, KL-3W is compatible with camcorder, laptop, PC, network camera, mobile phone, drone, digital microscope, and wireless microphone etc. With audio support, KL-3W can mix audio via HDMI, 3.5mm stereo and AREC wireless microphone.

\* Supports DVI and component video cable inputs with appropriate DVI to HDMI or component to VGA adaptors.

\*\* To receive a live video from your mobile device, please apply necessary settings in advance. Please refer to KL-3W user manual for more details.



### Wire-Free and Portable Design for Easy Move

Built-in WiFi module, AREC KL-3W can receive smooth Full HD video from AREC Wireless Network Cameras\* without wires or cables in venue. Just turning on the power, KL-3W can connect with these wireless devices automatically, providing a reliable and efficient multi-source live streaming solution in demanding portable applications.



### Achieve Multi-Source Live Streaming

KL-3W provides multi-source live streaming to broadcast the live image and voice of an on-going lecture or event on YouTube, Facebook, UStream, Twitch and other live broadcasting websites, allowing any participant to attend at any location in the world.



## Real-Time Assistant in Video Making

Built-in Online Director, AREC KL-3W provide a more intuitive experience for live production and streaming. It allows users to switch and mix between multiple cameras and digital content sources. It also supports control and monitoring the cameras' field of view, streaming setting, and adding pre-made background and overlay images for live production.



Web-based Online Director

## Flexible 3-Inputs and 4 Recording Video Files

AREC KL-3W supports up to 3-input sources capturing and up to 4 synchronized recording videos. Users can choose mixed recording mode or mixed plus original sources mode respectively. The mixed plus original sources recording mode provides 1 mixed video and 3 individual synchronized source videos for flexible post-production use.



## New Features for Live Video Production

KL-3W adds new features on its Online Director by letting users enjoy the fun of being a video director without any professional experience. Users can easily add pre-made background images, computer graphics (titles), and custom themes when broadcasting. If users just want to record a video with a fixed layout, push-buttons on the top machine allows for easy operation.



Background Images



Recording Layouts



Overlay Images



Custom Themes



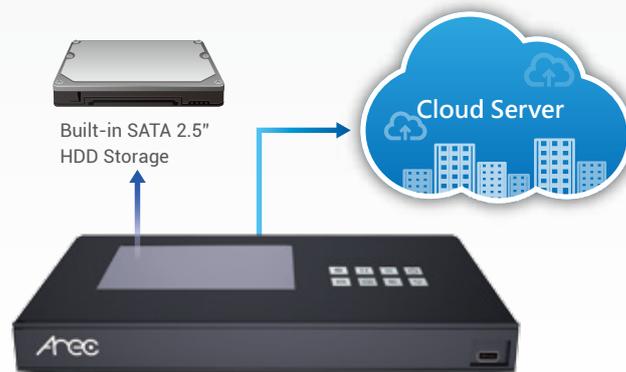
## AREC Video Manager: Videos with Just One Click

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.



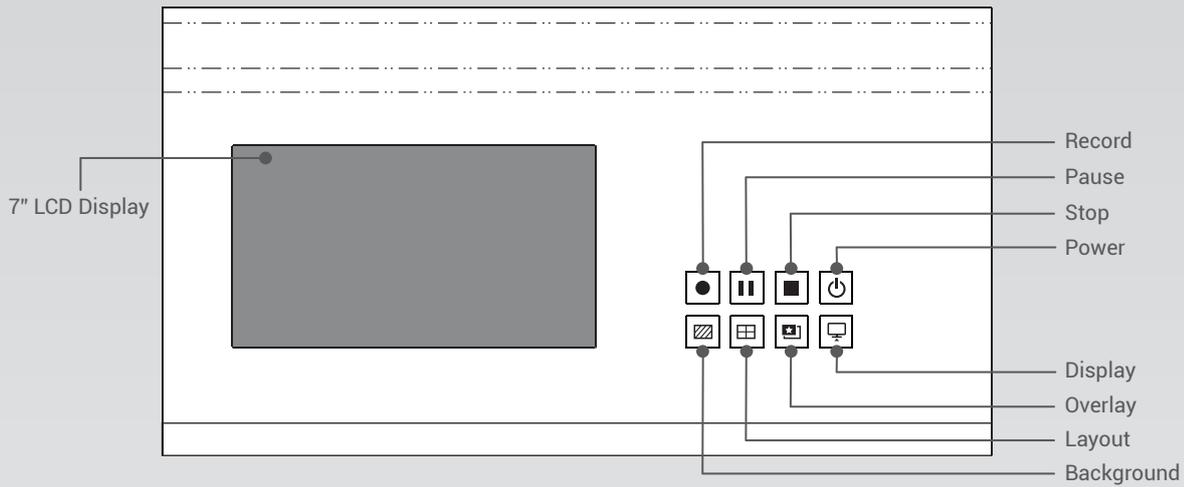
## Built-in Hard Drive Storage & Backup

Equipped with 1TB hard drive, KL-3W not only saves hundreds of hours recording videos but also enhances the overall efficiency. To satisfy different requirements, KL-3W also supports automatic and remote FTP backup to keep the recording safe.

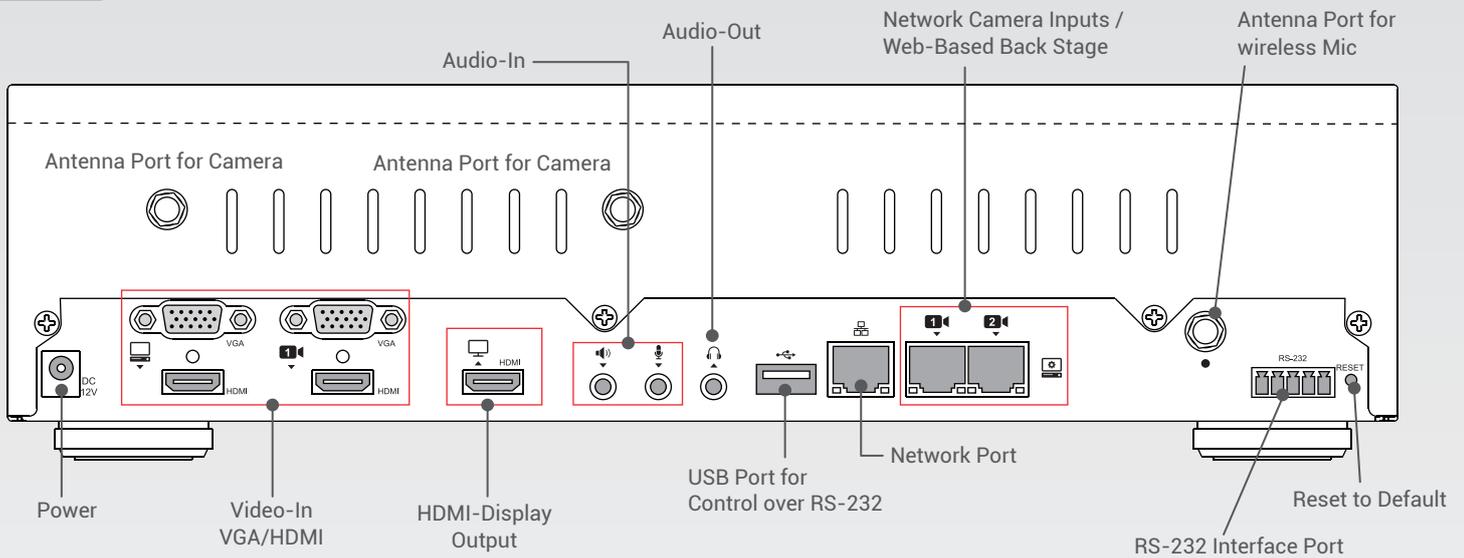


# Product Interface

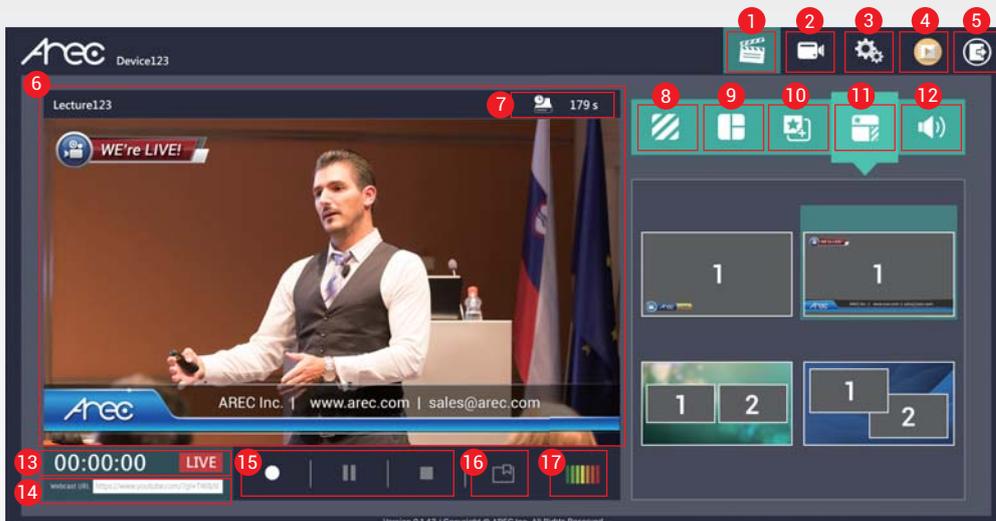
## Top View



## Back View



# User Interface of Online Director



- 1 Online Director
- 2 Visual Sources Monitoring
- 3 Setup
- 4 Video Manager
- 5 Log Out
- 6 Program View for Recording
- 7 Remaining Time for Recording
- 8 Background Images
- 9 Recording Layouts
- 10 Overlay Images
- 11 Custom Themes
- 12 Audio Volume Control
- 13 Recording Time
- 14 Live Streaming URL
- 15 Start/Pause/Stop Recording and Streaming
- 16 Add Bookmark
- 17 Volume Meter

# Products and Accessories of KL-3W Portable Media Set

Coming with KL-3W Portable Media Set, users can start multi-sources live broadcasting quickly and immediately.



## Quick Start of Creating a Live Broadcasting

1. Plug in and power on AREC KL-3W. Connect laptop and the network
2. Lock wireless cameras on the mini tripods, place the tripods in the suitable place and turn on the power
3. Place the wireless microphone in the suitable place and turn on the power
4. Push the recording button, and start recording and live streaming

Items	Contents	Quantity
1	Hand-Carry Case	1
2	AREC AM-601 Wireless Microphone	1
3	AREC KL-3W Media Station	1
4	AREC CW-210 Wireless Full HD Camera	2
5	Mini Travel Tripod	2

### Connection Diagram



# Specifications

Model Name	AREC KL-3W Media Station
<b>Input Connection</b>	
Video Inputs*	HDMI / VGA / RJ-45 (Supports AREC full HD network camera and wireless IP inputs)
	Available to receive live videos from iOS, Android smart phone and tablet through suggested live video streaming app Note: users should apply necessary settings to KL-3W and your 4G mobile device in advance. Please refer to KL-3W user manual for more details.
Max. Video-In channels	Maximum 3 channel synchronized recording
	HDMI / VGA : up to 2 channels Full HD network camera and streaming input : up to 3 channels
Video-In Modes	HDMI: 480i~1080p60 VGA video : 480i~1080p60 VGA PC : 640 x 480~1920 x 1080
Audio Inputs	Line in, Mic, wireless Mic, HDMI
Max. Audio-In channels	3.5mm Stereo : 2 channels Wireless Mic : 1 channel HDMI : 2 channels
<b>WiFi Connection</b>	
WiFi Connection Support	Yes, built-in WiFi module to support 2 wireless network camera inputs
Network Standards	IEEE 802.11 b / g / n 2x2
Operating Frequency	2.4 GHz
<b>Video Processing</b>	
Compression	H.264 / AVC
Frame Rate	Max. 30fps
Bit Rate	500Kbps~8Mbps
Resolution	Max. 1080p (320x240 ~ 1920x1080)
<b>Audio Processing</b>	
Compression	AAC-LC
Bit Rate	80Kbps~320Kbps
<b>Video Output</b>	
Built-in LCD Display	7" 800x480 TFT LCM LCD type : TFT / Transmissive
Video Output	1x HDMI display port (1 output option from loop-through, inputs monitoring and multi-source display)
<b>Streaming / Main System Output</b>	
Streaming Delay	1 sec.
Compatible Streaming Input Protocols	RTSP, RTP, RTMP, UDP
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)
Main Output Mode (Max.)	HDMI / VGA* : 1080p60
<b>Local Storage</b>	
External Storage	Supports USB drive recording through the front port
Locally Stored File Format	MP4
Local Storage	1TB 2.5" SATAIII hard drive

<b>Remote Storage</b>	
FTP Backup	Video files will backed up automatically to FTP server after end of recording
<b>Recording</b>	
Camera Control	VISCA / PELCO-D / PELCO-P
Recording Modes	Mixed mode, 1 Mixed + 3 individual original sources
Recording Layouts	21 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
Overlay 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 protocol
<b>Video Information Editing</b>	
Post Video Info Editing	Yes, through Video Manager platform
Video Info Adding	Video info will be added on video file name automatically while file output or uploading
<b>Operating Controls</b>	
Video Switcher	Yes, through web-based Oline Director for manual controls
External Control	Yes, supports RS-232 interface port
Control Button	Yes, on the top of the media station
Video Manager	Built-in Video Manager platform: through web-based control interface
<b>General Information</b>	
Operation System	Embedded Linux system
LCD Screen	Yes, built-in 7" LCD
Power Supply	12V / 3A
Temperature / Humidity	0~40°C / 90%
Dimension	354mm(L) x 188.2mm(W) x 97mm(H)
Weight	2.7kg (5.9 lbs)
Language	SC / TC / English / Russian / Spanish / Czech
Accessories	Power adapter / wireless Mic antenna / quick guide / VGA line / HDMI line / RJ-45 line / HDMI to VGA converter** / WiFi module antenna x 2

\* Supports DVI and component video cable inputs with appropriate DVI to HDMI or component to VGA adaptors.

\*\* Please use genuine original AREC HDMI to VGA converter

Model Name	CW-210 Wireless Full HD Network Camera*
<b>Camera</b>	
Image Sensor	1/2.8" progressive CMOS
Minimum Illumination	0.5 Lux (F1.8, AGC on)
White Balance Mode	Auto / 3000k / 4000k / 5000k / 6500k / Manual / OnePush
Shutter Speed	1/25 – 1/10000 sec.
Lens	10x optical zoom
Focal Length	4.7 – 47 mm
F Number	F1.6 (wide); F3.0 (tele)
Field of View	65° (wide) – 6.43° (tele)
<b>Video</b>	
Video Compression	H.264
Video Streaming	1920x1080/ 1280x720/ 640x480
Image Auto Adjustment	BLC / auto white balance / WDR / 2D&3D noise reduction
<b>Network</b>	
Network Interface	RJ-45 (100Mbps Ethernet), 2.4GHz WiFi
Protocol	RTSP, RTMP, ONVIF, GB/T28181
<b>General</b>	
Operating Temperature	-10°C ~ +50°C (14°F - 122°F)
Humidity	20% - 80%
Dimension (L x W x H)	148 x 65 x 113 mm (not included Antenna)
Weight	760g
Power Consumption	5.0W (max.)
Power Source	DC 5V/1A (USB Micro-B)
Accessories	Power adapter / wireless antenna

Model Name	AM-601 Wireless Microphone
<b>Audio and Indicators</b>	
Audio Input	Φ3.5mm phone jack
Lower Indicators	Built-in Microphone
Power Supply	Built-in rechargeable lithium battery, 3.7V, 800mA Interface: USB Micro-B
Temperature	0 ~ 50°C
Power Consumption	4hrs, after fully charged
Dimension	83(L)*41.5(W)*18.15(H)mm
Weight	67g

Model Name	AREC Hand-Carry Case
Accessories	Mini tripods x 2 / cables pack
Dimension	400(L) x 520(W) x 145(H) mm
Weight	3.8 kg
Capacity	30L



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