



KL-3WT

Media Station

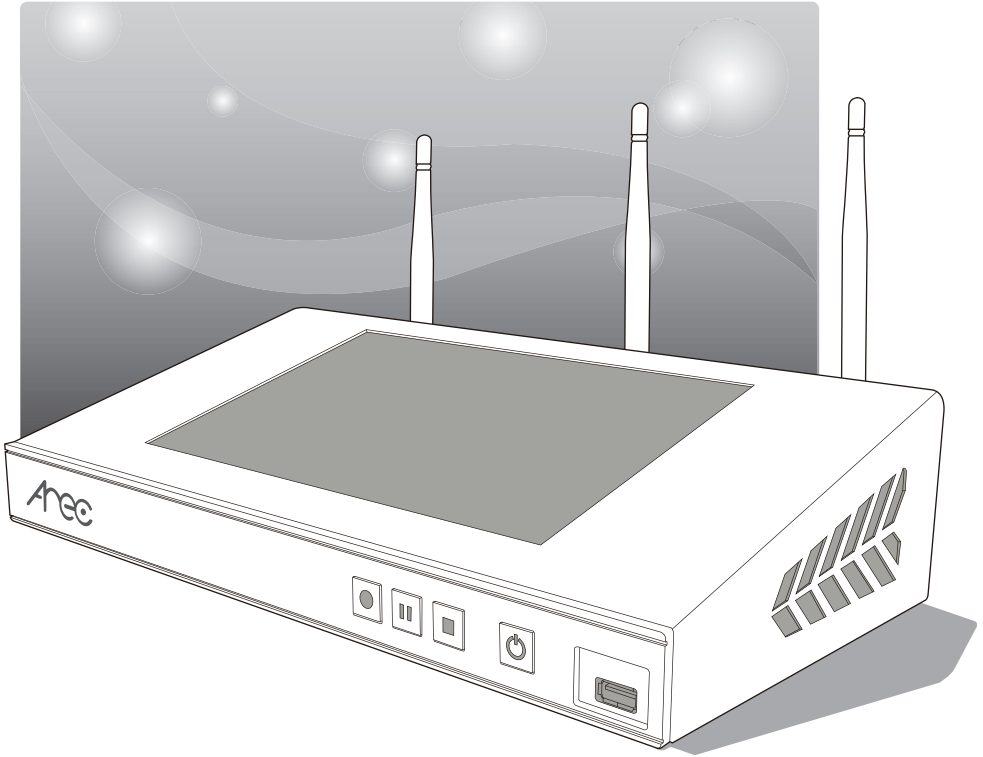


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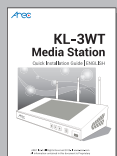
Introduction

Featuring a compact and stand-alone design, AREC KL-3WT Media Station consists of diverse features and functionality, including multi-signals capturing, recording synchronously, codec, streaming online, live broadcasting, and web-based monitor page, providing complete presentation or lecture capture solution.

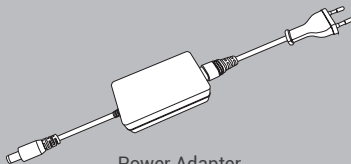
Specifications

Product Name	Media Station
Model Name	KL-3WT
Dimension	354mm(L) x 188.2mm(W) x 91.35mm(H)
Weight	2840g
Power Requirement	12V/3A
Power Consumption (Max.)	36W (Max.)
Operating Temperature / Humidity	0°C ~ 40°C / 90%
Maximum normal load description	Insert 1 IP CAM to LAN port and insert 2 video signals (either HDMI or VGA input). Using external USB flash to record the transcoded video/audio. And output the transcoded video/audio to HDMI port.

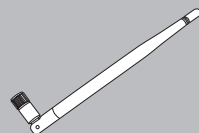
Package Contents



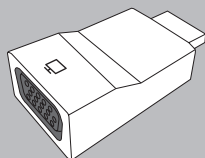
Quick Installation Guide



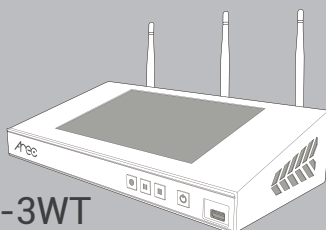
Power Adapter



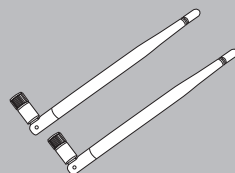
Wireless Mic. Antenna



HDMI-to-VGA converter



KL-3WT



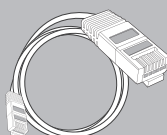
WiFi Module Antenna



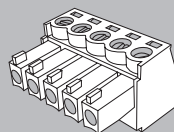
VGA Line



HDMI Line



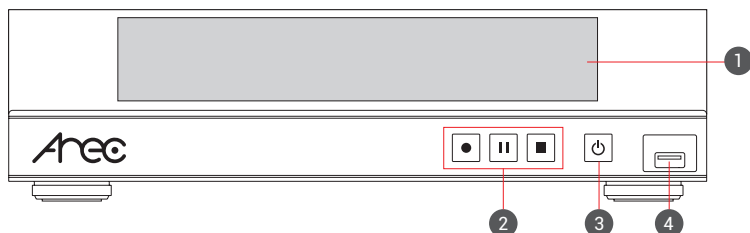
RJ-45 Line



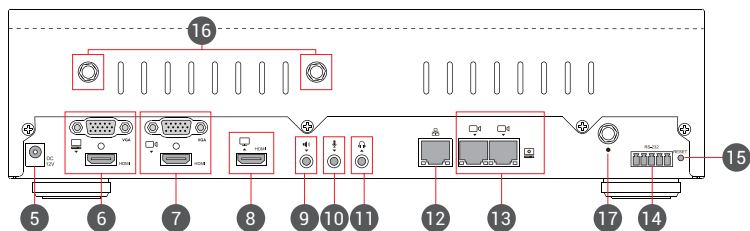
Terminal Block

Product Appearance

Front



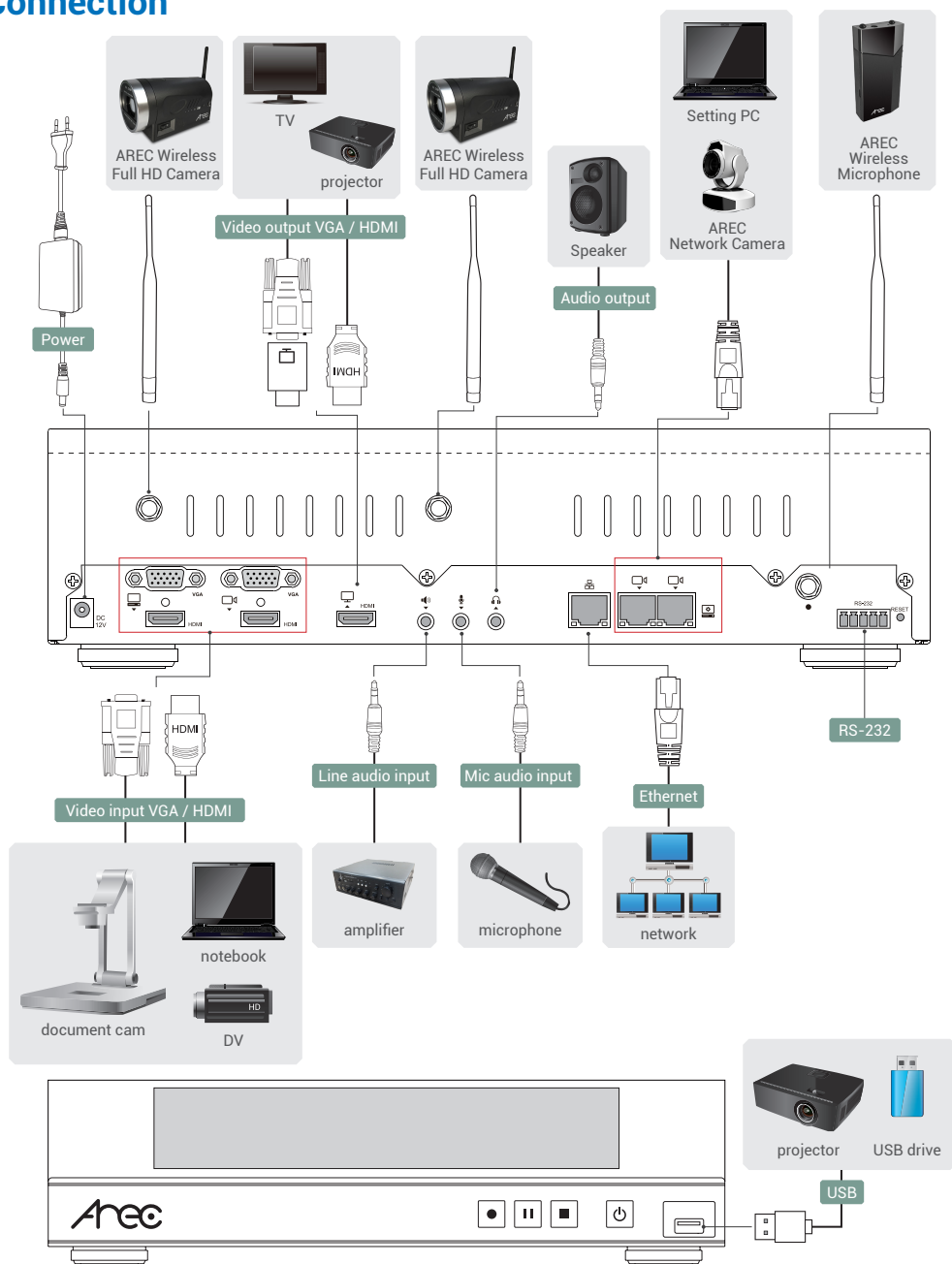
Back







No.	Name	Brief introduction
1	10.1" LCD Display	Preview mixed recording
2	Record function keys	Control the Record, Pause, Stop function
3	Power	Power on/off the device
4	Front USB port	1.For external USB storage device* 2.Firmware update through USB disk
5	Power port	12V/ 3A
6	Video input	VGA/ HDMI input source for PC []
7	Video input	VGA/ HDMI input source for camera []
8	Video output	1.HDMI loop thru from input [] 2.VGA output can use the HDMI-to-VGA converter
9	Audio input	Line audio input
10	Audio input	Mic audio input
11	Audio output	Line audio output
12	Network port	RJ-45 Ethernet connector for network connection
13	Network camera input	1.RJ-45 Ethernet connector for network camera input source 2.Connected to setting PC for device configuration and control
14	RS-232	Captive screw connector for control over RS-232
15	Reset button	Restoring devices to its factory default state
16	Antenna port for Camera	Connected to antennas for wireless cameras receive
17	Antenna port for Microphone	Connected to antenna for wireless microphone

NOTE: The port can detect and record to USB storage devices using FAT32, NTFS file systems.

Connection



Front Panel Buttons and Indicators


Button	Display method of indicator	Product status
   Record / Pause / Stop	Record button glows red continuously.	Recording in progress.
	Record button flashes red rapidly.	Recording is paused.
	Record button flashes red slowly.	Recording is being finalized.
 Power	Solid red.	Device is powered, yet not booted up.
	Green and red light flash alternately.	Device is booting up.
	Solid green.	Boot up completed.
	Fast flashing red.	Device is shutting down.
	Fast flashing green.	Firmware updating.
	Slow flashing red.	Fan is abnormal. Storage is abnormal.

External Control via USB Keypad

Insert the keyboard into the Media Station's USB hole, let USB numeric keypad as function keys to control the Media Station.




Button	Brief introduction	Button	Brief introduction
1	Theme 1	Backspace	All input volume mute/unmute
2	Theme 2	-	All input volume down
3	Theme 3	+	All input volume up
4	Theme 4	Enter	Record
5	Theme 5	ESC	Power off
6	Theme 6	Z • z	Change Background
7	Theme 7	X • x	Change Layout
8	Theme 8	C • c	Change Overlay
9	Theme 9	V • v	Live streaming on/off
/	Pause	B • b	Playback last record video
*	Stop	A • a	All output volume up
0	Change Display	S • s	All output volume down
.	Snapshot	D • d	All output volume mute/unmute

Getting start

Connect PC to the setting port of Media Station with standard network cable. Open up the browser, and input 192.168.11.254 in the browser page. Log in Administrator  with default username admin and password admin, then entering the KL-3WT system Administrator webpages.

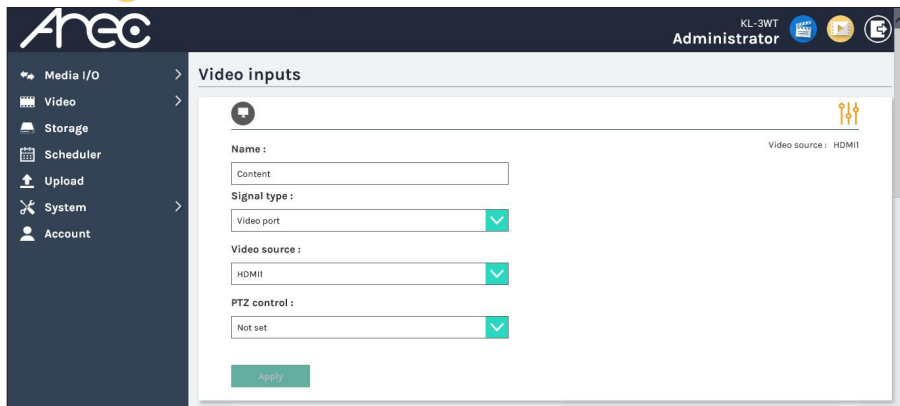
Overview of the Web Interface

KL-3WT web interface has three user types, which are described in detail in the following chapters :

 Online Director	For quick start recording, log in Online director from the initial login page with default username director and password director. This user also has access to Video Manager web pages.Log in with Administrator account, can switch to Administrator page.
 Administrator	To setup the device, log in Administrator with default username admin and password admin, then entering System Administrator webpages. The admin account provides the user all three type of privileges.
 Video Manager	If you only need to access to the recordings, log in Video Manager with default username video and password video.Log in with Administrator account, can switch to Administrator page.

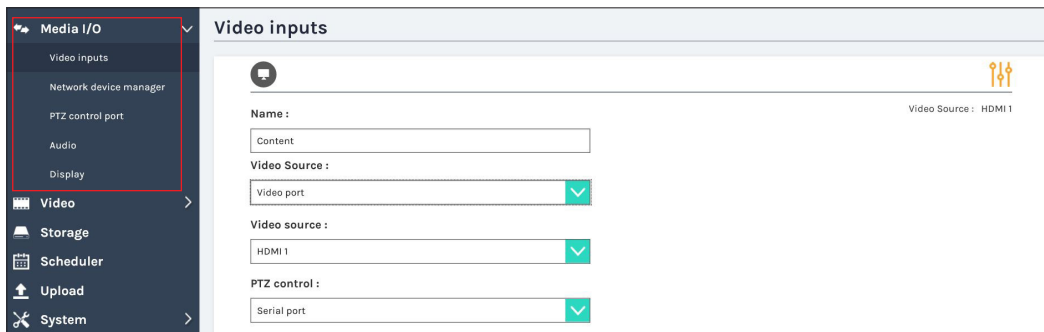
Chapter 1 Administrator

The Administrator web pages provide a system administration interface of the KL-3WT: it can perform Media I/O, Video, Storage, Scheduler, Account, Upload, System settings and confirm operations. The [Media I/O](#) settings make sure each input source are properly connected, and adjust the audio volume. The [Video](#) setting pages configure the recording, streaming, and other functions which define the content being recorded. [System](#) are pages contain basic settings and information of this device. Click icon can switch to Video Manager page.



1.1 Media I/O

The pages within [Media I/O](#) include the following :



Video inputs	Select the signal type, video source and PTZ control method for each input.
Network device manager	List out all the connected network cameras and Auto-Tracking Mount.
PTZ control port	Set KL-3WT USB-to-RS-232 serial port to drive PTZ cameras.
Audio	Adjust the volume and select the audio input source.
Display	Set the KL-3WT on screen display language and color adjustment.

1.1.1 Video inputs

The KL-3WT is capable to process up to four video inputs. The name of these inputs are user configurable; by default are Content, Cam 1 and Cam 2.

The image shows three side-by-side screenshots of the video input configuration interface. Each screenshot represents a different input source: Content (left), Cam 1 (middle), and Cam 2 (right). Each interface has a 'Name' field, a 'Video Source' dropdown menu, a 'Video source' dropdown menu, a 'PTZ control' dropdown menu, and a 'Serial port selection' dropdown menu. The 'Apply' button is at the bottom of each form. The 'Video Source' and 'Video source' dropdowns have green checkmarks next to them, indicating they are selected. The 'PTZ control' and 'Serial port selection' dropdowns also have green checkmarks next to them, indicating they are selected.

1.1.1.1 Content / Cam 1 / Cam 2


- **Video Source** can be choose from **Network Camera**, **Encoder** or **Video port**. The last option is available only for the first two video inputs.

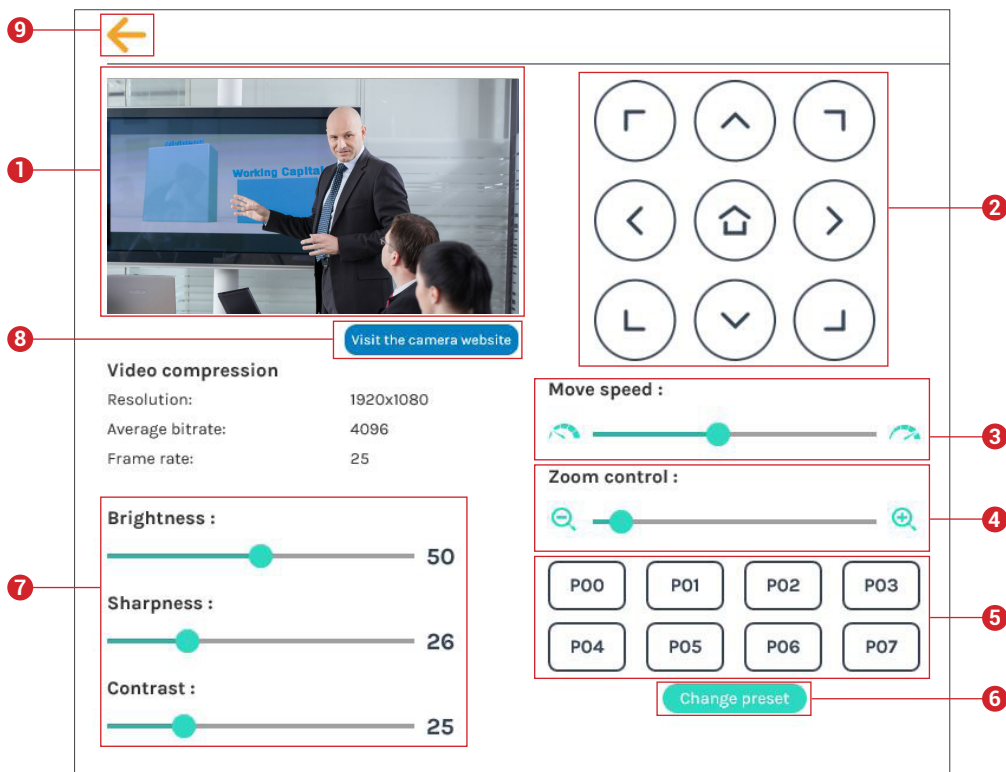
Video port	Select Video source: The KL-3WT provides VGA and HDMI input options for video port. If only one of those is connected, the system would detect and automatically switch to source of signal. If both options are connected, select one in between.
Network Camera	Select IP address: Select from the camera ip address drop list of those available. Note: A login authentication with the camera might be required. See Media I/O\ Camera manager for more details.
Encoder	Select Protocol: The available options are RTP, RTSP, or RTMP. Enter the primary and secondary url/port number.


- **PTZ control** : The KL-3WT is highly integrated with PTZ cameras and provides two control methods, Over IP or via Serial port.

Serial port	Select this option when the appointed camera uses RS-232 PTZ control protocol. Then complete the Serial port selection from drop list Port 1~4. See Media I/O\ PTZ control port for more details.
Over IP	The option is available when the specified signal type is a network camera. Select this option if that camera supports networking PTZ control.
Auto-Tracking Mount	Select IP address: Select from the TP-100 ip address drop list of those available. Select Tracking mode: off / Auto-Tracking / Auto-Tracking (pan only), the default is the Auto-Tracking. Note: A login authentication with the TP-100 might be required. See Media I/O\ Network device manager for more details.

1.1.1.2 Advanced configuration

A preview use and further configuration of the video input is provided. After the video input setting is successfully applied, click  to enter the advanced configuration page. In the case of a PTZ camera, the direction control panel, zoom in/out control bar, and up to 8 preset positions are enabled.



1. The video input preview.
2. Direction control panel: Click the arrow buttons to move the camera.
3. Movement speed: Move leftward or rightward to set slower or faster the camera is moving.
4. Zoom in/out: Click the buttons or drag on the control bar.
5. Preset positions: Click the buttons to command that the camera go to the preset position.
6. Change preset: Click the button to modify the preset positions. Select any of the P00~P07, move the camera to the desired position by using the direction control panel or using the zoom in/out control. Click Save button to complete the change or click Cancel button to give it up.
 Note: If you use AREC CI-xxx network camera with TP-100, you can change preset of TP-100's Home.
7. Brightness, sharpness, and contrast: Slide the adjust bar leftward or rightward to change the camera image settings.
8. Visit the camera website: Click this [Visit the camera website](#) button to enter the webcam management web site, input the verification code as prompted.
9. Click  button at upper left corner to return to the last page.

1.1.2 Network device manager

The system automatically scans and lists the network cameras and Auto-Tracking Mount connected to the Media Station once entering the [Network device manager] page. You may click Refresh button to scan again. Click Login button and the login authentication dialog pop out.

Enter the username and password of the camera or Auto-Tracking Mount to complete the authentication. Take AREC network camera for example, enter the default username and password admin/ admin. The status then changes to OK, which indicates it is available for video input selection.

Note : If you fail to find your camera by clicking on "Refresh", please select "Signal type" to "Encoder" in the "Video Inputs" and fill in your camera information.

The screenshot shows the 'Network device manager' page. On the left is a sidebar with navigation options: Media I/O, Video inputs, Network device manager (selected), PTZ control port, Audio, Display, Video, Storage, Scheduler, Upload, System, and Account. The main content area is titled 'Network device manager' and contains two sections: 'Network cameras' and 'Auto-Tracking Mount'.

Network cameras section:

- Buttons: Refresh, LAN (checked), WAN (checked)

Host name	IP address	MAC	Brand	Status	Connected
CW-210	10.2.50.148	E4:77:D4:00:DB:80	CW-210	OK	OK
CI-403	10.2.50.115	00:00:89:17:19:E3	CI-403	OK	OK
CI-200	10.2.50.116	00:00:89:0E:51:63	CI-200	OK	OK

Auto-Tracking Mount section:

- Buttons: Refresh, LAN (checked), WAN (checked)

Host name	IP address	MAC	Brand	Status	Connected
TP100	10.2.50.104	BC:BA:E1:01:01:5C	AREC	OK	

The screenshot shows a 'Login authentication' dialog box with a close button (X) in the top right corner. It contains two input fields: 'User name :' and 'Password :'. Below the fields is a green 'Authentication' button. In the background, a 'Status' panel is partially visible with multiple 'Login' buttons.

1.1.3 PTZ control port

The KL-3WT facilitate the web-based users control PTZ cameras using RS-232 protocol. Connect an USB-to-RS-232 adapter to the KL-3WT USB port in advance. Before making any changes to this page, please get to know about the RS-232 settings of the desired PTZ camera. The following configurations must be identical to the external device settings.

- Protocol : Available options are VISCA, PELCO-D, and PELCO-P;
- Address : Set according to the camera address for RS-232 communication. VISCA: 1-7, PELCO D/P: 1-255;
- Baud rate : 2400, 4800, 9600, and 115200

Note: Support USB to RS-232 serial port adapter with chip PL2303 or FT4232H.

1.1.4 Audio

Adjust volume and select the audio input source.

Input volume control - Users can select the sound source from the drop-down menu of Audio input 1 or Audio input 2. Tune the recorded volume from each audio input. Configurable range of sound input is 0-125, of AREC wireless microphone 0~15. The nearby volume meter indicates the encoded audio current volume.

Output volume control - Adjust the Line output or HDMI output volume.

Set Audio output loop through on/ off.

1.1.5 Display

Set the KL-3WT on screen display language and color adjustment.

On-screen language: Change the GUI language.

Screen color adjustment(HDMI and VGA): Change the Brightness, Contrast, Saturation and Hue

NOTE: Adjust the built-in LCD, please select VGA.

1.2 Video

The pages within Video construct a collection of settings that defines the operating characteristics for a streaming/recording, include:

Recording Configure Encoder settings and Bookmark settings for recording.

Streaming Configure Encoder settings for streaming.

Content Edit the information of the content that will be recorded.

Theme Set the overlay files, background images and theme types.

1.2.1 Recording


Set up the [Encoder settings](#) and [Bookmark settings](#) for recording.

Encoder settings

- Recording mode: Available options are MP4 Mixed video and MP4 Mixed video/ Original source.
- Video compression : There are 7 preset recording video compression profiles for different resolution and bitrate. Select one to see the option details on the right side. You may customize your own user defined option.
- Front USB recording : Set ON/OFF to enable/disable KL-3WT front USB recording function. Make sure the front USB drive connected can be normally read and written and have enough space for the recorded files.
- Loop recording : Set ON/OFF to enable/disable KL-3WT local storage recording rule.

Click Apply button at the bottom corner when finished to apply the settings.

Profile name	Video Resolution/ Bitrate	Application description
Full HD	1080p/ 4Mbps	Dynamic scene and large local hard disk recording.
Internet Full HD	1080p/ 3Mbps	General scene and medium local hard disk recording.
HD	720p/ 2Mbps	Static scene and small local hard disk recording.
Internet HD	720p/ 1.5Mbps	Live broadcasting through the Internet.
SD	480p/ 800kbps	Static scene for live broadcasting through the Internet.
Mobile SD	480p/ 500kbps	Live broadcasting for portable mobile devices watching.

Click  button to open customization window as shown below, and click Save button to make the option changed.

User defined

Bookmark settings- Set ON/OFF to enable add bookmark automatically.
Click Apply button at the bottom corner when finished to apply the settings.

Bookmark settings

Add automatically :

☒

Apply

Add prefix to video filename: Use this description is added to the Video filename as a prefix string for Download and Upload.

Recording file name setting

Prefix setting :

Apply

Audio shift- Adjust the delay of sound after video transmission. Synchronize the video and audio with consistency.

Audio settings

Audio shift :

100 ms

Apply

1.2.2 Streaming

AREC Media Station support two streaming address with same video compression. The page provides user to change streaming settings. It is essential that the configurations follow the streaming protocol and recommended settings your server system supports.

Media I/O

Video

Recording

Streaming

Content

Theme

Storage

Scheduler

Upload

System

Account

Streaming

Encoder settings

Video compression :

Internet HD

Internet HD

Resolution : 1280x720

Average bitrate : 1.5 Mbps

H.264 profile : high profile

Apply

Streaming 1 settings

Live streaming :

Enable streaming button

URL :


rtmp://10.2.50.188/live/L5-400-Stream1

Apply

Streaming 2 settings

Live streaming :

OFF

Video compression profile – There are 7 streaming video compression profiles for different resolution and bitrate. Select one to see the option details on the right side. You may customize your own user defined option. Click  button to open customization window as shown below, and click Save button to make the option changed.

Click Apply button at the bottom corner when finished to apply the settings.

Note: The resolution for streaming cannot be larger than that for recording.

User defined

Resolution :

1280x720

Average bitrate :

1.5 Mbps

H.264 profile :

high profile


Save

Live streaming : Select OFF/ Together with recording/ Streaming always/ Enable streaming button to setting live streaming ability.

Together with recording : Streaming and recording simultaneously

Streaming always : KL-3WT always streaming

Enable streaming button : Enable streaming On/Off button on GUI and Online Director

Click  button to open customization window as shown below, RTMP username/password and test for Wowza. Click Save button to make the option change.

Advanced settings

Username :

Password :

Connection test

Save

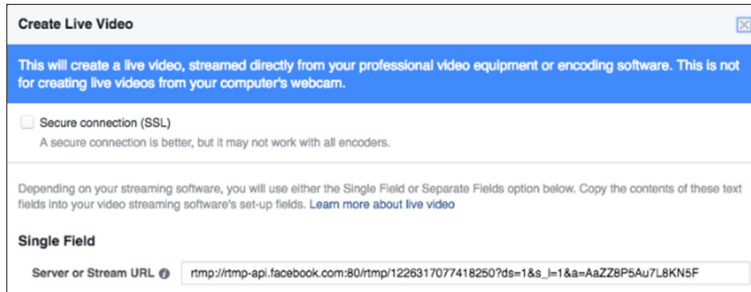
URL – The available protocol on the KL-3WT are RTP and RTMP, the URL format is as follows :

RTMP	In the protocol setting field, copy and paste the Server or Stream URL and Stream name provided by you CDN or server administrator in the format <code>rtmp://serverurl/streamname</code> .
RTP	Enter the destination IP address and the port number where the streaming is played in the format <code>rtp://@ip:port</code> . For example, <code>rtp://@226.10.24.32:7000</code>

Followings are some popular examples for streaming settings.

Streaming to Facebook Live

Copy the contents of the Single Field, Server or Stream URL, and paste in the KL-3WT streaming protocol setting field.



Create Live Video

This will create a live video, streamed directly from your professional video equipment or encoding software. This is not for creating live videos from your computer's webcam.

☐ Secure connection (SSL)
A secure connection is better, but it may not work with all encoders.

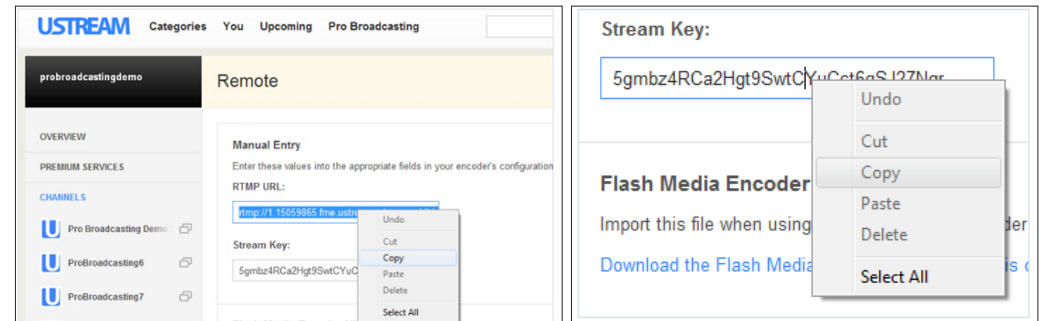
Depending on your streaming software, you will use either the Single Field or Separate Fields option below. Copy the contents of these text fields into your video streaming software's set-up fields. [Learn more about live video](#)

Single Field

Server or Stream URL

Streaming to Ustream

Combine the contents of both fields: RTMP URL and Stream Key, insert a slash between them. Paste this string into the KL-3WT streaming protocol setting field. For example: rtmp:1.15059865.fme.stream.tv/ustreamVideo/15059865/5gmbz4RCa2Hgt9SwCYuCct6qS137Nar



USTREAM Categories You Upcoming Pro Broadcasting

probroadcastingdemo Remote

Manual Entry
Enter these values into the appropriate fields in your encoder's configuration

RTMP URL:

Stream Key:

Flash Media Encoder
Import this file when using
Download the Flash Media

Streaming to YouTube Live

Combine the contents of both fields: Primary Server URL and Stream Name, insert a slash between them. Paste this string into the KL-3WT streaming protocol setting field.

Streaming to a media player on a PC in the same LAN with the KL-3WT

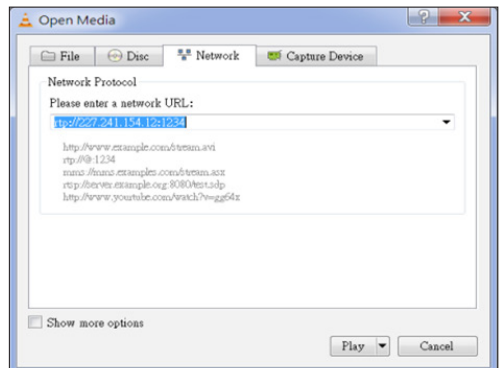
Enter the destination IP address and the port number where the streaming is played in the format rtp://@ip:port.

Unicast: For a single point connection, the destination IP must be set to the location where the stream is played.

Multicast: The destination IP must be multicast IP address where it can be shared with multiple viewers.

The KL-3WT use IP address: 239.0.0.1 and port number: 5004 as the stream default. The available range of port number is 1024 to 65535.

To view the stream from a media player, open the URL in a media player, such as:



Open Media

File Disc Network Capture Device

Network Protocol
Please enter a network URL:

<http://www.example.com/stream.avi>
<rtsp://192.168.1.1:554>
<mms://news.example.com/stream.asx>
<rtsp://news.example.org:8080/stream.asp>
<http://www.youtube.com/watch?v=g654x>

☐ Show more options

Play Cancel

1.2.3 Content


The KL-3WT contains up to 13 user-configurable elements for describing content. These elements and texts will be saved in the recording data of the newly created content. Enter text in the content settings fields if desired. Click Apply button at the bottom corner when finished to apply the settings.

Note: These updates do not apply to the existing recordings. To edit the existing recording information, see Video Manager.

<div><div>Media I/O</div><div>Video</div><div>Recording</div><div>Streaming</div><div>Content</div><div>Theme</div><div>Storage</div><div>Scheduler</div><div>Upload</div><div>System</div><div>Account</div></div>	<div>Content</div> <div>Content settings</div> <div>Title :</div> <div></div> <div>Organization :</div> <div></div> <div>Department :</div> <div></div> <div>Event_date :</div> <div></div> <div>Semester :</div> <div></div> <div>Topic :</div> <div></div> <div>Level :</div> <div></div> <div>Audience :</div> <div></div> <div>Room :</div> <div></div> <div>Category :</div>
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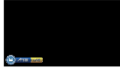

1.2.4 Theme

KL-3WT by factory default provides three overlays, three backgrounds and four themes.

Overlay : Select and delete the overlay. Click [] button and select the desired file in the Open dialog box. The file name would appears with the newly uploaded image. Click Apply button at the bottom corner to apply the settings, or click [**Delete**] Cancel to give it up.

Note: The overlay file must be in PNG format, maximum size 1920px*1080px.

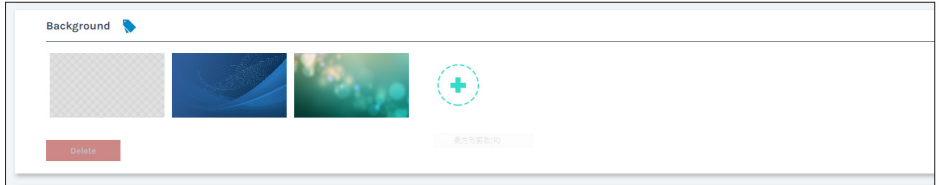
Note: The user can use the mouse to drag the order of the display.

Overlay	
<div><div></div><div></div><div></div><div></div></div>	
<div>Delete</div>	

Background : Select and delete the background. Click [+] button and select the desired file in the Open dialog box. The file name would appears with the newly uploaded image. Click Apply button at the bottom corner to apply the settings, or click [Delete] Cancel to give it up.

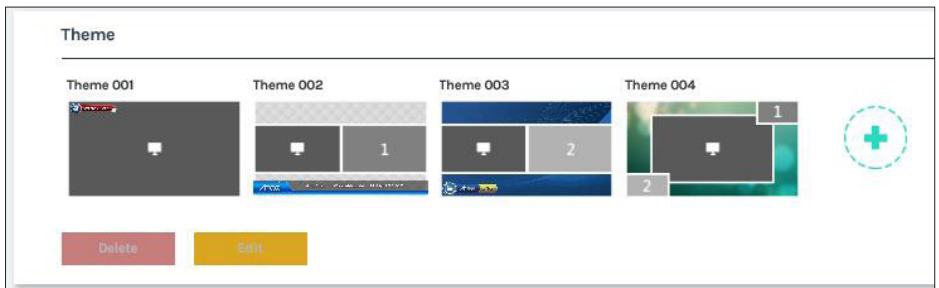
Note: The background file must be in PNG format, maximum size 1920px*1080px.

Note: The user can use the mouse to drag the order of the display.



Theme : Theme is integrated with "Overlay", "Background" and "Layout". KL-3WT by factory default provides four themes by different types of overlays, backgrounds and layouts. Click [+] to set the theme type. Input the theme name, and select the desired type of overlay, layout and background. Click Apply button at the bottom corner to apply the settings.

Note: The user can use the mouse to drag the order of the display.



1.3 Storage

The recording files produced by the KL-3WT are stored on its own internal hard drive. This page provides user to set local storage drive and reveals the disk information in the lower section.

Interface	Disk name	Brand	Capacity	Free Space	Format
SATA	Internal (SATA HDD)	ATA WDC WD10SPZX-00Z	1916.89 GB	869.21 GB	Format

Record disk settings-

Local storage: The internal hard drive of KL-3WT is preset for storing the recorded files.

Click Apply after setup is completed. New setting takes effective from next recording being created.

Disk information- Displays disk information, available storage space and total capacity. Click "Format" to clean up the internal storage drive. A dialog box opens asking you to confirm the disk formatting. Click Confirm to permanently delete all recording packages.

1.4 Scheduler

The Schedule Settings page allows the administrator privileges to choose how to obtain presentation schedules and, if appropriate, import calendars or connect to an Opencast scheduling system. Start video recording automatically at the date and time specified in a calendar schedule.

Available options are Scheduling via Opencast server, Manual Calendar import, and Periodic Calendar import.

Scheduler

Schedule settings **Resetting the schedule source will replace the current schedule.**

☐ off

Schedule source :

Periodic Calendar import

Scheduling via Opencast server

Manual Calendar import

Periodic Calendar import

Apply

Recording interruption

Cancel ongoing recording task :

Stop

Scheduling via Opencast server : Centralized Scheduling via Opencast server

Manual Calendar import : Importing iCalendar files manually

Periodic Calendar import : Importing iCalendar files automatically

Disable Recording functions if Schedule Record is on

- Local director : record button
- Online director : record buttons (record/pause/stop)
- Front Panel (record/pause/stop)
- USB Keyboard (record/pause/stop)
- Front USB recording off

Scheduler



Date	Start time	End time	Presenter	Room	Title	Description
2019-04-01	18:00:00	19:00:00	arec.com_oqnplif...		Busy	

1

Recording interruption

Cancel ongoing recording task :

Stop

Recording interruption : Manually stop current schedule

Click  Open Scheduled Events page.

Scheduling via Opencast server

- Enter the Capture agent name, Username, Password and iCalendar URL in these fields.
 - Capture agent name: the ID to recognize KL-3WT on Opencast platform
 - Username: Opencast user account
 - Password: Opencast user password
- Click Apply. The event schedule is added and appears in the calendar on the Scheduled Events page.
- Go to Opencast admin, and check if the KL-3WT is correctly registered on Opencast.

Schedule settings



Schedule source :

Scheduling via Opencast server



Capture agent name :

cbox

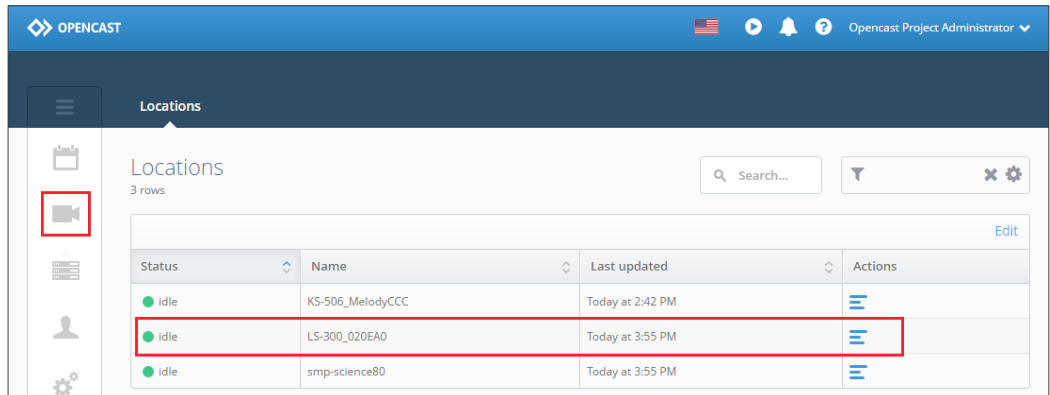
Username :

Password :

URL :

Apply

"Opencast Admin" -> "Capture" -> "Locations"



Locations

3 rows

Status	Name	Last updated	Actions
idle	KS-506_MelodyCCC	Today at 2:42 PM	
idle	LS-300_020EAO	Today at 3:55 PM	
idle	smp-science80	Today at 3:55 PM	

Manual Calendar import

1. Click Import. An Open window opens.
2. Locate and select the iCalendar file for import. The file must have a .ics file extension.
3. Click Open. The Open window closes and the file name is displayed within the Manual Calendar Import panel area. The Import button is active.
4. Click Apply. The event schedule is added and appears in the calendar on the Scheduled Events page.

Schedule settings

☒ on

Schedule source :

Manual Calendar import

Load a configuration.

Import

Apply

Periodic Calendar import

1. Enter the iCalendar URL in this field.
 2. Click Apply. The event schedule is added and appears in the calendar on the Scheduled Events page.
- Note: iCalendar Schedule can not be set to cycle, only accept single. Cannot set more than 2 pens to start at the same time. When setting the time overlap, the start time whichever is earlier.

Schedule settings

☒ on

Schedule source :

Periodic Calendar import

URL :

Apply

1.5 Upload

The KL-3WT is able to automatically upload recordings from its internal drive to a network server. In this page, user can configure the upload destination and tests the connection.

Auto upload- Select from the drop-down list. Start uploading "after recording is completed", or turn "OFF" the function. Followings to be configured according to the upload destination.

- Mode: Select network server type (FTP, SFTP, Kaltura, Panopto, Opencast HTTP, Opencast HTTPS).
- IP address, port, or User ID: Configure these fields according to the upload destination.
- Folder: Enter the folder name of the upload destination.
- Authentication: Configure this section according to the upload destination authentication method.

Connection test- Click the Connection test button to validate upload settings.

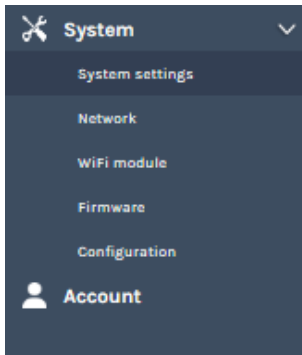
Click Apply after setup is completed. New setting is effective from next recording being created.

The upload status/result of the corresponding recordings is denoted in the Video Manager web pages.

Note : If the web server is Opencast, the video title and the creator description are automatically filled with the title and presenter of the Director's content settings.

1.6 System

The pages within System include the following:



System settings	Contains device identification, date and time configuration, and booting settings.
Network	The device IP assignment in the networking.
WiFi module	The KL-3WT build in WiFi module, provides quick and easy way to enable WiFi connectivity for all kinds of products (such as AREC Wireless Full HD Camera and NB).
Firmware	Displays the current firmware version, and provides web-based user a way to update firmware for the device.
Configuration	Export / Import the configuration.

1.6.1 System settings

The basic information and initial date/time of this device are configured here.

Media I/O >
Video >
Storage
Scheduler
Upload
System
System settings
Network
WiFi module
Firmware
Configuration
Account

System settings

Device identification

Hostname : Hostname follows RFC-852 internet host table specification.

Device description :

Brand : AREC Inc.

Model : KL-3WT

Serial number :

MAC : BC:8A:E1:02:1B:A6

Date and time

Device current date and time : 2019-04-08 14:42:25

Time zone :

Setting mode :

NTP server url :

Boot image

File format : PNG

Size (Max): 3 MB

Resolution(Max): 1920x1080

Power

Power mode :

Device identification – Set the name (device description) for this device.

Date and Time – Set the device date, time, and time zone manually/ be synchronized to PC, or with an external NTP (network time protocol) server.

Boot image – Change the boot screen image. The boot screen is the image you will see when you boot up the device.

Click Browse button and select the desired file in the Open dialog box. The file name would appears with the newly uploaded image. Click Apply button at the bottom corner to apply the settings, or click Cancel to give it up.

Power – Choose how to turn on the device.

Note: The boot screen file must be in PNG format, maximum size 1920x1080px.

1.6.2 Network

By default KL-3WT uses DHCP to obtain an IP Address via a router or any DHCP server. To use a static IP address for your device, configure the network settings in this webpage.

IP assignment – Select DHCP to have IP address be allocated by a router or any DHCP server being connected; or Select Static IP and enter the required network settings including IP address / subnet mask / default gateway/ DNS server.

Click Apply at lower right corner, click Confirm in popup dialog box.

Note: The system will automatically reboot to complete the network settings. Login the updated IP address after the system restarts.

1.6.3 WiFi module

The module provides quick and easy way to enable WiFi connectivity for all kinds of products (such as AREC Wireless Full HD Camera and NB).

1.6.3.1 System information

The module supports Access Point mode of wireless operation. The basic wireless settings used for Access Point mode are listed below.

Setting	Description	Default
SSID	This is the name of your wireless network. The "name" can be up to 32 characters in length, and contain letters and numbers.	CBOX-WiFi
Wireless Mode	Support 802.11b, 802.11g, 802.11n HT20 and 802.11n HT40 modes.	IEEE 802.11g/n HT20
Wireless Security	In the security mode option, there are WEP, WPA-PSK, WPA2-PSK, WPA-PSK Mixed, WPA,WPA2 andWPA Mixed listed.	WPA-PSK Mixed

Media I/O

Video

Storage

Scheduler

Upload

System

System settings

Network

WiFi module

Firmware

Configuration

Account

WiFi module

System information

Hostname :
CBOX WiFi Module

MAC :
70:B3:D5:13:40:8C

Firmware version :
v1.3.8

IP address :
192.168.11.200

Subnet mask :
255.255.255.0

Default gateway :
192.168.11.254

Operation mode :
Access Point

Wireless mode :
IEEE 802.11g/n HT20

Wireless network name (SSID) :
CBOX-WIFI [Change settings](#) ①

Security :
WPA-PSK Mixed [Change password](#) ②

Management

System configuration and management

[Advanced settings](#)

Restore to factory defaults: Restoring the unit to the factory default settings will erase all settings, including any rules you have created.

[Reset](#)

1. Change settings:Modify the Wireless network name (SSID)

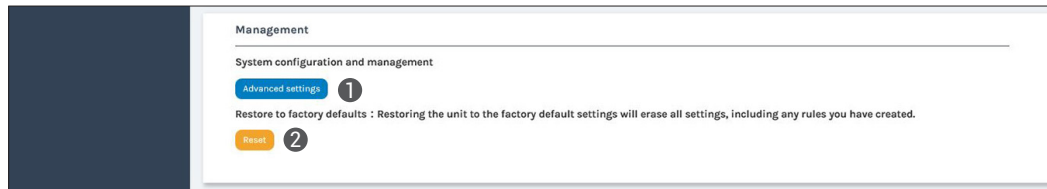
Rule : This is the name of your wireless network. The name can be up to 32 characters in length, and contain letters and numbers.

2. Change password:Modify the Passphrase of Security mode

Rule : Enter a new passphrase between 8 and 32 characters long, using any combination of printable characters.

Note : When the Video inputs use CW-210 (AREC Wireless Full HD Camera), the module needs to set the SSID & Passphrase of security

1.6.3.2 Management



1. Advanced settings : Visit the module website; you can modify the other configuration and management.
Note : Log in the Web Interface, please enter the correct user name and password and click OK / Yes to proceed. The default use name is Admin and no password.
2. Reset (Restore to factory defaults) : Restoring the unit to the factory default settings will erase all settings, including any rules you have created.

Setting	Default
IP Address	192.168.11.200
Default Gateway	192.168.11.254
Device Name	CBOX WiFi Module
DHCP Server	Disable
SSID	CBOX-WiFi
Wireless Mode	IEEE 802.11g/n HT20
Security Mode	WPA-PSK Mixed
Passphrase of Security	12345678

1.6.4 Firmware

This page displays the device firmware version. To update the firmware, click "Update" and a dialog box opens asking you to select the file. Select the desired file and click "Open", the dialog box closes and the file name appears underneath. Click "Apply" to start firmware update. Click "Cancel" if the uploaded file is no longer wanted.

Note: System will reboot automatically when the firmware update is completed. It might takes a few minutes. Do not shutdown/ power off the system during firmware updating.

The screenshot shows the 'Firmware' section of the web interface. On the left is a sidebar menu with options: Media I/O, Video, Storage, Scheduler, Upload, System (selected), System settings, Network, W/FI module, Firmware, Configuration, and Account. The main content area has a title 'Firmware' and three sections: 'Firmware' showing MCU version v6.7 and Firmware v2.6.7.11 with an 'Update' button; 'Service data' with a description input field and an 'Export' button; and 'Reset' with a 'Reset to factory default' checkbox (checked) and an 'Reset' button.

Service data : Export the log file to your computer or upload it to the Customer Service Server. Input the file name, and then click "Export" or "Upload".

Note : The length of the string is 0~16 characters, allowing letters, numbers, symbols 11(~!@\$%^&*+~_).

Reset : Reset to factory default. Check if you want to keep your network settings, and click "Reset". The dialog pop out and ask you "System will reboot after updating, continue?"
" Click "Confirm" to start reset.

1.6.5 Configuration

You can export or import the configuration in this page:

The screenshot shows the 'Configuration' section of the web interface. On the left is the same sidebar menu as in the previous screenshot. The main content area has a title 'Configuration' and two sections: 'Export' with checkboxes for 'All configuration', 'Audio and Display', 'Recording, Streaming, Content, Storage, and Upload', 'Theme', and 'Layout', followed by an 'Export' button; and 'Import' with a 'Load a configuration.' input field and an 'Import' button.

Export : Select the configuration to export and click "Export".

Import : Click "Import" to load a configuration.

1.7 Account

Users can set the system account password etc.

The screenshot displays the 'Account management' section of the Arec interface. On the left is a dark sidebar with navigation icons for Media I/O, Video, Storage, Scheduler, Upload, System, and Account. The main content area is titled 'Account management' and contains three distinct user management sections:

- Administrator**: Includes fields for Username (pre-filled with 'admin'), New password, and Confirm password, followed by an 'Apply' button.
- Online Director**: Includes fields for Username (pre-filled with 'director'), New password, and Confirm password, followed by an 'Apply' button.
- Video Manager**: Includes fields for Username (pre-filled with 'video'), New password, and Confirm password, followed by an 'Apply' button.

Changing username and password with Administration/ Online Director / Video Manager :

- (1) New User: Enter a user login name that you want.
- (2) New Password: Enter the user login password that you want.
- (3) Confirm Password: Requires you to enter your password again for confirmation.
- (4) Click Apply.

Chapter 2 Director

2.1 Local Director

The KL-3WT Local Director operates on the screen after the USB port is connected to the mouse or projector. GUI allow user to control recording and have a live stream view on the display. This director control panel makes it easy to apply layout, select background, and control the audio recorded during the recording process.



2.1.1 Preview

This section briefly introduces the names of the various function buttons, and the functions will be introduced in the next section.



—	Minimum	LIVE	Stream Status		Snaoshot
	Maximum	00:00:00	Record Timer		Playback
	Overlay		Streaming On/Off		Settings
	Layout		Record	10.2.50.152	IP Address
	Background		Pause		Audio Volume
	Theme		Stop		Display

2.1.2 Toolbar

Here will introduce the function of all buttons. We divide the function into many small parts to introduce it for easy reading.

2.1.2.1 Theme and Display

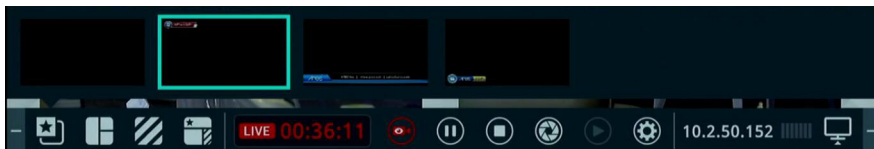
There are five buttons for quickly switching recording overlay, layout, background, theme and display.



Name : Overlay

Function : Change Overlay

Brief introduction :



Name : Layout

Function : Change Layout

Brief introduction :



Name : Background

Function : Change Background

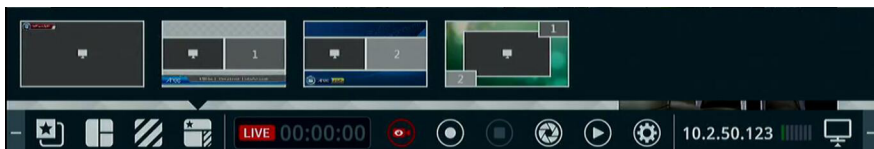
Brief introduction :



Name : Theme

Function : Change Theme

Brief introduction :



Name : Display

Function : Change Content / Cam 1 / Cam 2 / Mixed video cycling

Brief introduction : Switch image sources to monitor individual image inputs.

2.1.2.2 Recording, Streaming control and Snapshot

1. There are four buttons for quickly control video recording

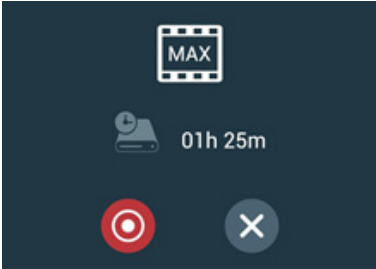
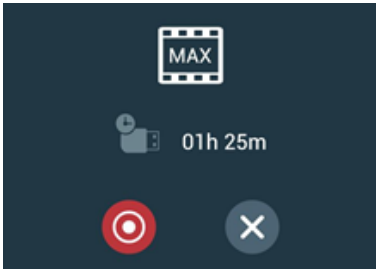
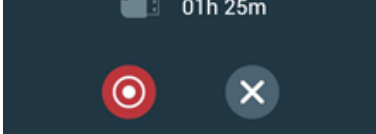
Name	Function	Description
 Status	Streaming status	Status change to red while KL-3WT live broadcast
00:00:00 Timer	Record timer	Timer change to red while recording
 Streaming	Streaming On/Off	When administrator streaming setting : Enable streaming button
 Record	Video recording	The Record button is red to indicate active recording
 Pause	Pause recording	The preview video are suspended. To resume recording, click Record.
 Stop	Stop to end a recording	-
 Snapshot	Screen shot of the preview.	When not recording, the picture will be placed in the snapshot folder of the internal hard drive or front USB, and will appear in the Video Manger. When recording, the picture will be placed in the data set of the video(see 3.1.4 NO.6), and when the snapshot is taken, the bookmark will be automatically added.

2. video recording

Limitation

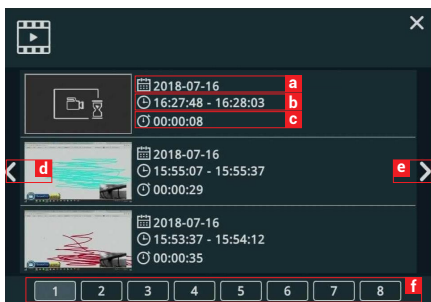
1. Video length(Max.) : 8hr
2. If Front USB is FAT32, USB record size only 4 GB space time.

Rule

<ol style="list-style-type: none"> 1. Loop recording off <ol style="list-style-type: none"> a. Front USB recording off : If internal hard drive < 8hr : max = internal hard drive, show the dialog b. Front USB recording on and internal hard drive < USB <ul style="list-style-type: none"> • If internal hard drive < 8hr : max = internal hard drive, show the dialog 	
<ol style="list-style-type: none"> 2. Loop recording off <ol style="list-style-type: none"> c. Front USB recording on and internal hard drive > USB <ul style="list-style-type: none"> • If USB < 8hr : max = USB, show the dialog 	
<ol style="list-style-type: none"> 3. Loop recording on (internal hard drive = 8hr) <ol style="list-style-type: none"> a. Front USB recording on and internal hard drive > USB <ul style="list-style-type: none"> • If USB < 8hr : max = USB, show the dialog 	

2.1.2.3 Playback Video

■ Video list Dialog





Show all videos saved in hard drive, three videos in one page.

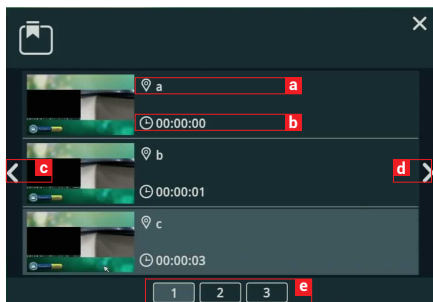
- a. Date of video
- b. Start-End time of video
- c. Total time of video
- d. File list page up
- e. File list page down
- f. Video list pages, click to jump to different video list page.

■ Playback mode functions



Name	Function	Description
 Play/ Pause	Play/Pause video	While the video is playing, click to pause and click again to resume
 Time bar	Show playback progress in bar	Click any point on the bar will jump to correspondent time
00:00:00 Time 00:00:02 Information	Total recording time & current playback time	-
 Audio On/Off	Mute or resume playback audio	-
 Volume bar	Show playback volume level	Click any point on the bar will adjust to correspondent volume level
 Bookmark	Bookmark of video	(The dialog will be introduced below.)
 Switch sources	Change playback source	-
 Mixed video	Playback Mixed video	-
 Content	Playback Content video	-
 Cam 1	Playback Cam 1 video	-
 Cam 2	Playback Cam 2 video	-
 Exit	Exit the playback mode	-

■ Bookmark



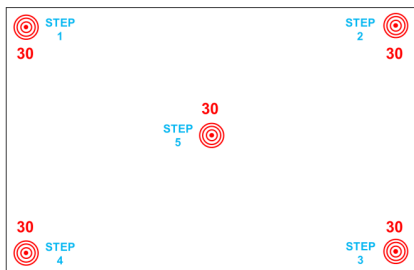
Show all Bookmark list attached with this playback video, three Bookmark item in one page.

- a. Bookmark Title
- b. Time Point
- c. Bookmark list page up
- d. Bookmark list page down
- e. Bookmark list pages, click to jump to different video list page.

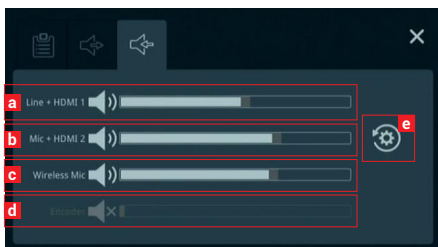
2.1.2.4 Settings

1. Information

- a. Show device information: Hostname/ Device description/ IP address/ Model/ Version/ Brand
- b. Projector calibration: Some of the iFPD need to be calibrated before use. Using mouse control to click icon to start calibration. First appears the Touch Module list, select one and the calibration page will show. Using pen or finger to click on the center of the dot one by one. Totally 5 dots and each dot remain 30 seconds for time out.

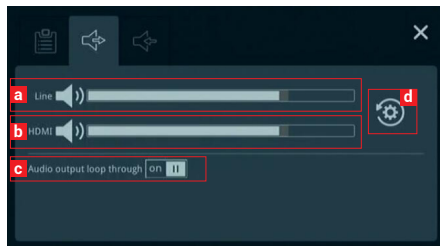


2. Audio In / Out



Audio Input Volume Control

- a. Line/ HDMI 1/ Line + HDMI 1 : Mute/ Down/ Up
- b. Mic/ HDMI 2/ Mic + HDMI 2 : Mute/ Down/ Up
- c. Wireless Mic : Mute/ Down/ Up
- d. Encoder: Mute/ Down/ Up
- e. Default (Volume only)



Audio Output Volume Control


- a. Line : Mute/ Down/ Up
- b. HDMI : Mute/ Down/ Up
- c. Audio output loop through : On/Off

Note :

Audio Loop-through Off : Local audio output does not include local audio input (Audio 1, Audio 2, Wireless Microphone and USB Microphone)


- d. Default (Volume only)

2.1.2.5 Others

Name	Function	Description
10.2.50.152	IP Address	Device WAN IP Address
	Audio Volume	Audio volume meter

2.2 Online Director

The KL-3WT embedded Online Director web pages allow user to control recording and have a live stream view of the output video. This director control panel makes it easy to apply layout, select background, and control the audio recorded during the recording process.

Entering the Online Director webpage via [Administrator] by clicking the  button or login Online Director from the initial login page with default username director and password director. Both ways lead to the Online Director control panel for web-based users.

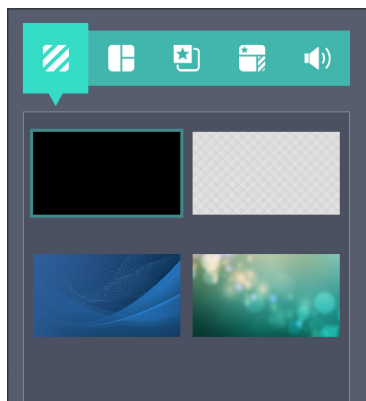


These Web pages provide the following features and information about:

1. A live view window and a control panel of the KL-3WT recording and streaming.
2. A visual sources monitoring exclusive panel which allow user to control and monitor the cameras providing the video source.
3. A simplified setting page to configure the content that is going to be recorded and streamed.
4. A Video Manager hyperlink to manage the content stored in the KL-3WT.
5. Device description, which is configurable for system Administrator, indicates the device location...etc.
6. Storage capacity which is converted into remaining time for recording.
7. Recording/ Streaming status and timer.
8. Recording/ Streaming control and Snapshot buttons.
9. Audio volume meter indicates the audio volume of the content being recorded and streamed.

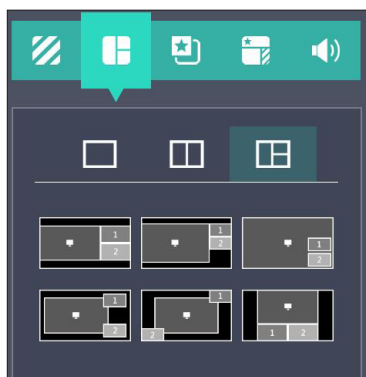
2.2.1 Recording controls panel

There are five tab panels for quickly switching recording background,layout,overlay,theme, and adjusting volume.



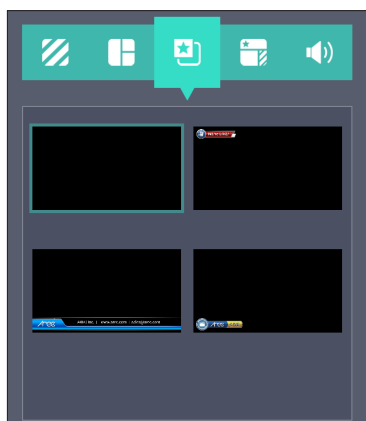
2.2.1.1 Background

Display the available background images for Online Director controlling. Click the background thumbnail to apply it to the video. KL-3WT by factory default provides one plain black background and three user-configurable backgrounds. See Administrator \ Video \ Theme for more detail.



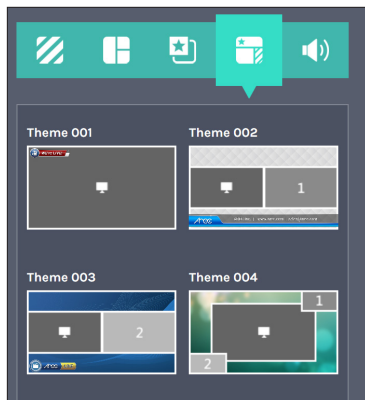
2.2.1.2 Layout

There are layout templates which are factory default layouts and pre-defined into four groups. User can apply layout to the live view window, recording session, and web streaming all at once. Click the layout template to select the desired layout.



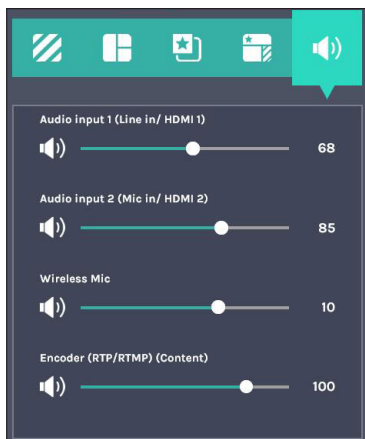
2.2.1.3 Overlay

KL-3WT by factory default provides one plain black overlay and three user-configurable overlays. Click the overlay thumbnail to apply it to the video. See Administrator \ Video \ Theme for more details.



2.2.1.4 Theme

Theme is integrated with "Overlay", "Background" and "Layout". KL-3WT by factory default provides themes by different overlays, backgrounds and layouts. See Administrator \ Video \ Theme for more details.











2.2.1.5 Volume control

The audio control bar is to adjust the recorded volume from each audio input and adjust the output volume. Adjustable range of sound input is 0-125, AREC wireless microphone 0~15.

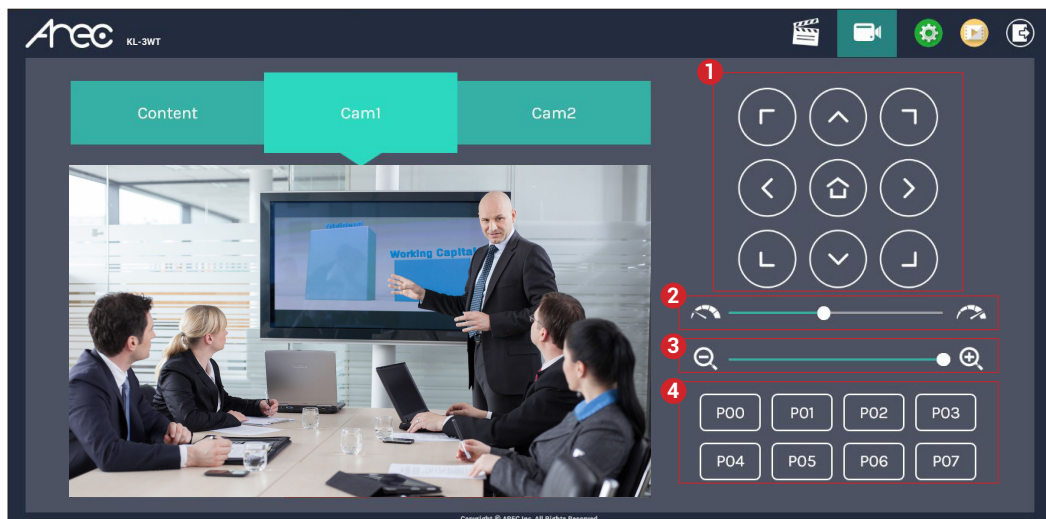
2.2.1.6 Recording/ Streaming control and Snapshot buttons

Buttons are:

	Streaming setting	When administrator streaming setting Together with recording
	Live streaming	KL-3WT live broadcast
	Streaming	Streaming on/off (When administrator streaming setting: Enable streaming button)
	Record	Click Record and recording begins. The Record button is red to indicate active recording.
	Pause	Click Pause to pause recording. The preview and the output video are also suspended while recording is paused. To resume recording, click Record.
	Stop	Click Stop to end a recording
	Scheduler	Schedule record on
	Snapshot	Screen shot of the preview. When not recording, the picture will be placed in the snapshot folder of the internal hard drive or front USB, and will appear in the Video Manger. When recording, the picture will be placed in the data set of the video(see 3.1.4 NO.6), and when the snapshot is taken, the bookmark will be automatically added.

2.2.2 Visual Sources Monitoring

It makes easy for user to control and monitor each video input. Click the tab with the video input name on it to switch the monitoring window. In the case of a PTZ camera, the direction control panel, zoom in/out control bar, and up to 8 preset positions are enabled.



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1. Direction control panel: Click the arrow buttons to move the camera.
2. Movement speed: Move leftward or rightward to set slower or faster the camera is moving.
3. Zoom in/out: Click the buttons or drag on the control bar.
4. Preset positions: Click the buttons to command that the camera go to the preset position.

2.2.3 Recording/Streaming setup


The page provides user to change settings for recording, streaming, content and theme.

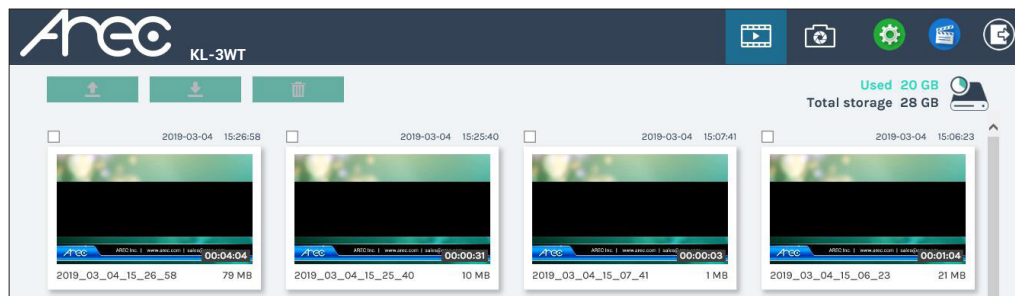
Recording	Configure Encoder settings and Bookmark settings for recording.
Streaming	Configure Encoder settings for streaming.
Content	Edit the information of the content that will be recorded.
Theme	Set the overlay files, background images and theme types.

The detail functions, please refer to 1.2 Video

Chapter 3 Video Manager

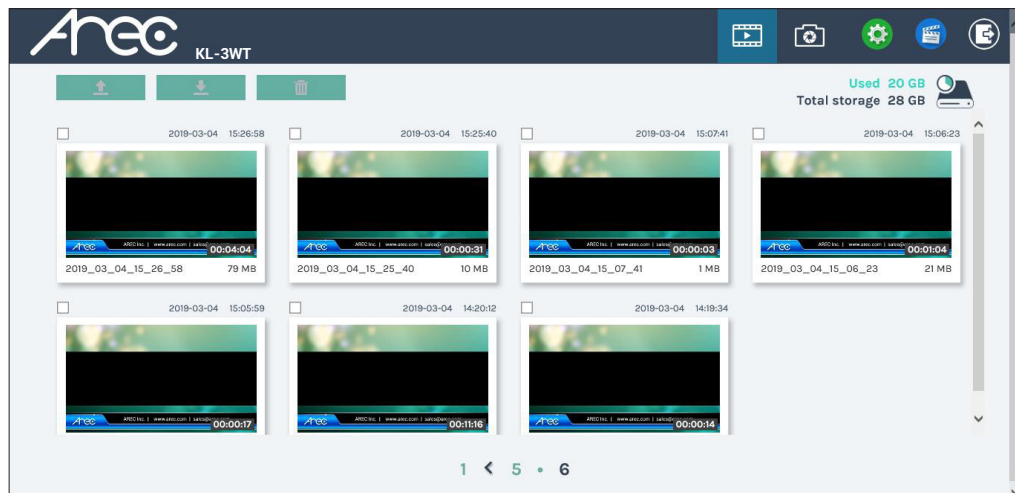
The KL-3WT embedded Video Manager provides access to recordings produced by KL-3WT itself and stored in the internal -storage drive. The video and Snapshot lists are in descending order by the time of occurrence.

Entering the Video Manager webpage via [Administrator][Online Director] by clicking the  button; or log in Video Manager from the initial login page with default username video and password video.




3.1 Video Management





The Video Manager includes the following features:upload, download, delete, playback the recording and edit the recording information.




3.1.1 Upload the recording

Select the desired recording and click  to add it in the upload queue. The upload destination is pre-configured by system administrator. See [Administrator\ Upload](#) for more details. The KL-3WT arranges the upload sequence automatically and indicates the upload status/result on the corresponding recordings. The following indicators are used:



Icon	Upload Status
	The recording package are uploaded successfully.
	The recording upload is failed.
	The recording is in the upload queue.
	The recording is uploading at this moment.

3.1.2 Download the recording


Select the desired recording and click . Select Save if offered the choice to Open or to Save the package. The recording packages are downloaded to your computer included mp4 file and dataset file. These are typically saved to the default download location used by your browser.

The recording package may contain more than one .mp4 files if that is recorded in MP4 Mixed video/ Original source recording mode.

To separately download the files in the recording packages, click on the recording thumbnail and access those in the Content information page.

3.1.3 Delete the recording

Recording packages can be deleted manually to make room for new recordings.

Select the recording and click . A confirmation dialog box opens asking you to confirm the deletion. Click Confirm to permanently remove the recording packages. The list may not update immediately. Refresh the list by reloading this webpage.

3.1.4 Playback the recording

Click on the desired recording and you will be directed to the content information page. Use the player controls at the bottom of the window to watch the video.

There might be more than one files listed under the window if the content is recorded in MP4 Mixed video/ Original source recording mode. Select the video for playback by clicking on the image of the desired one.

The file size being download is shown within the button.

The title used for Mixed video is "Movie", and those for Original source(s) are the name of the corresponding video input(s); by default are Content, Cam 1 and Cam 2. To separately download MP4 Mixed video/ Original source files, select the desired file and click Download.

The screenshot displays the 'Content information' interface. On the left, a video player shows a woman speaking at a podium. The player includes a title bar with 'Movie' and a timestamp '2019-04-11 14:20:56'. Below the video, there are playback controls (play, pause, seek, volume) and a list of video files: 'Movie' (5 MB), 'Content' (4 MB), 'Cam1' (4 MB), and 'Cam2' (5 MB). At the bottom of the player area, there are checkboxes for 'Data set' and 'HTML'. On the right, a form allows editing content fields: Title, Organization, Department, Event_date, Semester, Topic, Level, and Audience. At the bottom right, there is an 'Apply' button. At the bottom center, there is a 'Download' button.

1. Title of the video file being played

2. Recording date and time

3. Edit the content fields

4. Playback window

5. Playback controls

6. Video files and data set (files containing metadata, thumbnail images, and bookmarks.)

7. HTML file and thumbnail images

8. Download button

3.1.5 Edit the recording information

If you require to edit the information of a recording, click on the desired recording and you will be directed to the content information page. Replace the existing text or enter new information in the content fields. Click APPLY to save the changes.

3.1.6 Edit the bookmark information

If you require to edit the bookmark of a recording, click on the desired recording and you will be directed to the Bookmark page.

The screenshot shows the Arec KL-3WT interface with the 'Bookmark' tab selected. The main area displays a list of recordings with their thumbnails, titles, and durations. To the right of each recording is a vertical toolbar with icons for editing (pencil), deleting (trash), and adding (plus). Below the list is a large green button labeled '+ Add bookmark'. Three red lines connect these elements to three separate dialog boxes shown on the right:

- 1. Edit the bookmark title.** The 'Edit bookmark' dialog shows a thumbnail, the current time (00:00:43), and a text field for the title (containing 'Slide 1'). It has 'Cancel' and 'Apply' buttons.
- 2. Delete the bookmark** This action is represented by the trash icon in the toolbar.
- 3. Add new bookmark with title.** The 'Add bookmark' dialog shows a thumbnail, the current time (00:01:39), and an empty text field for the title. It has 'Cancel' and 'Apply' buttons.


3.2 Snapshot Management

The Snapshot Manager includes the following features:upload, download, delete, preview.





The screenshot shows the Arec KL-3WT interface with the 'Snapshot Manager' tab selected. The top bar includes the Arec logo, the model name 'KL-3WT', and several icons (play, camera, settings, calendar, user). Below the top bar is a toolbar with icons for upload, download, and delete. The main area displays a list of snapshots with their thumbnails, dates, and sizes. The status bar at the bottom right shows 'Used 20 GB' and 'Total storage 28 GB'.

Thumbnail	Date	Size
	2019_03_21	65 KB
	2019_03_20	103 KB
	2019_03_11	436 KB
	2019_03_08	34 KB


3.2.1 Upload the photo

Select the desired photo folder and click  to add it in the upload queue. The upload destination is pre-configured by system administrator. See Administrator\ Upload for more details. The KL-3WT arranges the upload sequence automatically and indicates the upload status/result on the corresponding folders. The following indicators are used:



Icon	Upload Status
	The file package are uploaded successfully.
	The file upload is failed.
	The file is in the upload queue.
	The file is uploading at this moment.


3.2.2 Download the photo

Select the desired photo folder and click . Select Save if offered the choice to Open or to Save the package. The photo packages are downloaded to your computer. These are typically saved to the default download location used by your browser.

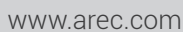
To separately download the photo in the folder, click on the folder thumbnail.

3.2.3 Delete the photo

Photo packages can be deleted manually to make room for new photos.

Select the folder and click . A confirmation dialog box opens asking you to confirm the deletion. Click Confirm to permanently remove the photo packages. The list may not update immediately. Refresh the list by reloading this webpage.

Click on the desired photo folder and you will be directed to the photo list page.



Chapter 4 Video source of the Flexible Application

To use smartphone camera as video input, please follow below steps:

1. Download app to phone :

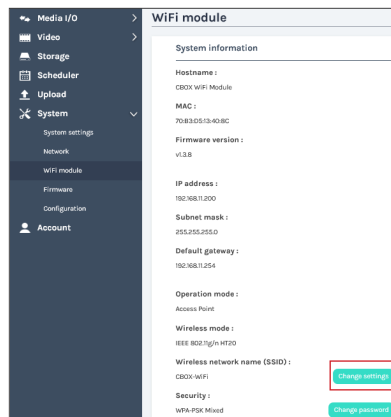
First, you have to download a app for real time live streaming, and you can live stream with an RTMP encoder.

Followings are two app that can download by android and ios phones.

- Android-Download [CameraFi Live](#) on Google Play
- iOS-Download [BroadcastMe](#) on App Store

2. Connect your phone to WiFi network :

Please connect the phone to KL-3W WiFi. If you want to get the wireless network name, log in System Administrator interface, and go to System settings \ WiFi module page. See the Wireless network name (SSID) and connect your phone to this WiFi network.



3. APP settings :

CameraFi Live

Please open the app and follow the steps below :

(1) Click RTMP in the menu and you will get into the setting page.

(2) Edit RTMP URL as the following form :

RTMP URL: `rtmp://192.168.11.254 / live /`

Stream name: `streamname`

Note : Streamname is user-defined.

(3) Click Apply after setup is completed.

or you can get into setting page in the recording interface :

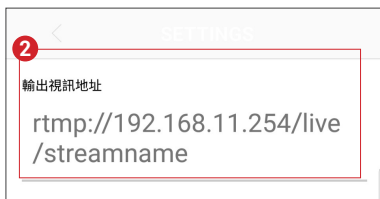
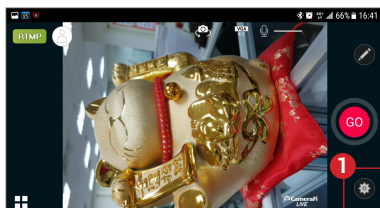
(1) Click setting icon on the recording interface and you will get into the setting page.

(2) Edit RTMP URL as the following form: `rtmp://192.168.11.254 / live / streamname`

Note : Streamname is user-defined.



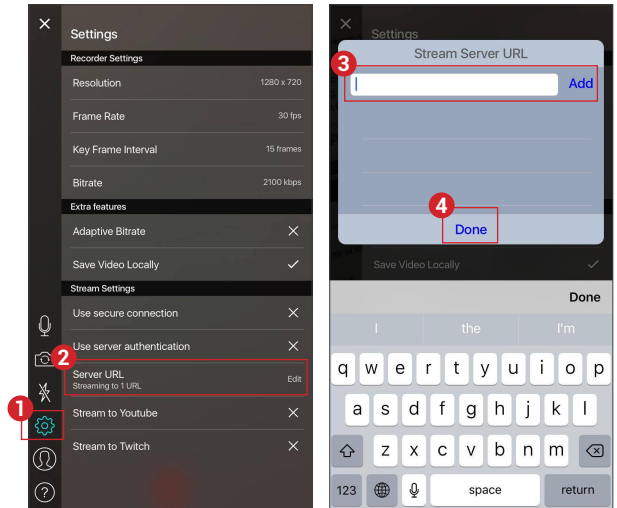
or



BroadcastMe

Please open the app and follow the steps below :

- (1) Go to the setting page of the app.
- (2) Click the Server URL setting.
- (3) Edit Server URL as the following form :
[rtmp://192.168.11.254 / live / streamname](rtmp://192.168.11.254/live/streamname)
Note: Streamname is user-defined.
- (4) Press the Add and Done button.



4. Video source settings :

Enter Media I/O \ Video inputs page, select Encoder as a video input signal type. Fill below URL :

Protocol : RTMP

Primary URL : [rtmp://192.168.11.254 / live / streamname](rtmp://192.168.11.254/live/streamname)

Note: The Primary URL must match the URL you entered in Step 3.

1

Name :

Cam 1

Signal type :

Encoder

✓

Protocol :

RTMP

✓

Primary URL :

192.168.11.254/live/streamname

Secondary URL :

192.168.11.254/live/streamname

PTZ control :

Not set

✓

Apply

Signal type : rtmp://192.168.11.254/live/streamname

After completing the above settings, you can use your phone camera to be a video source. Back to the recording interface on your phone and click the record button to start to recode. Simultaneously, your phone camera screen is received from the Online Director interface.

Table of On Screen Display Icons

The KL-3WT provides a 10.1" LCD Display for recording monitoring. On screen display there are event icons and sometimes the error operation warnings.



Disk full



Network connection failure



Wireless microphone connected



Live Streaming Error



Front USB recording error



Operation is denied



Front USB recording



Disk failure



Input no video



Front USB drive mount



Pause

Recording is paused



Updating.Please wait.
System will reboot after setting updating.

Firmware updating

Update failed!



Press any button to resume the preview.


12 seconds

Firmware update failure

Fan error




System will shut down in 60 seconds

Please press  to shut down immediately

Fan failure

Shutdown?



Yes: Press  again

No: Press any other buttons

Shutdown confirmation



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