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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

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name</td>
<td>Media Station</td>
</tr>
<tr>
<td>Model Name</td>
<td>KL-3WT</td>
</tr>
<tr>
<td>Dimension</td>
<td>354mm(L) x 188.2mm(W) x 91.35mm(H)</td>
</tr>
<tr>
<td>Weight</td>
<td>2840g</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>12V/3A</td>
</tr>
<tr>
<td>Power Consumption (Max.)</td>
<td>36W (Max.)</td>
</tr>
<tr>
<td>Operating Temperature / Humidity</td>
<td>0℃ ~ 40℃ / 90%</td>
</tr>
</tbody>
</table>

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

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

#### Back

**NOTE:** The port can detect and record to USB storage devices using FAT32, NTFS file systems.
# Front Panel Buttons and Indicators

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

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

### 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:

<table>
<thead>
<tr>
<th>User Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Online Director</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Administrator</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Video Manager</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>
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:

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

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 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.
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:

<table>
<thead>
<tr>
<th>Recording</th>
<th>Configure Encoder settings and Bookmark settings for recording.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Streaming</td>
<td>Configure Encoder settings for streaming.</td>
</tr>
<tr>
<td>Content</td>
<td>Edit the information of the content that will be recorded.</td>
</tr>
<tr>
<td>Theme</td>
<td>Set the overlay files, background images and theme types.</td>
</tr>
</tbody>
</table>
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.

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

User defined
Click button to open customization window as shown below, and click Save button to make the option changed.
Bookmark settings - Set ON/OFF to enable add bookmark automatically. Click Apply button at the bottom corner when finished to apply the settings.

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

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

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.
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.


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

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 rtmp://serverurl/streamname.

**RTP**
Enter the destination IP address and the port number where the streaming is played in the format rtp://@ip:port.
For example, rtp://@226.10.24.32:7000
Followings are some popular examples for streaming settings.

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/15059865/5gmbz4RCa2Hgt9SwtCYuCct6qS137Nar

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.

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:

Followings are some popular examples for streaming settings.

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/15059865/5gmbz4RCa2Hgt9SwtCYuCct6qS137Nar

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.

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:

Followings are some popular examples for streaming settings.

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/15059865/5gmbz4RCa2Hgt9SwtCYuCct6qS137Nar

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.

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:

Followings are some popular examples for streaming settings.

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/15059865/5gmbz4RCa2Hgt9SwtCYuCct6qS137Nar

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.

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:
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.

![Content Settings Table]

1.2.4 Theme

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

**Overlay**: Select and delete the overlay. Click ![Overlay Button] button and select the desired file in the Open dialog box. The file name would appear with the newly uploaded image. Click Apply button at the bottom corner to apply the settings, or click ![Delete Button] 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 Selection]
**Background**: Select and delete the background. Click [+] button and select the desired file in the Open dialog box. The file name would appear 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.

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.

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
  a. Local director: record button
  b. Online director: record buttons (record/pause/stop)
  c. Front Panel (record/pause/stop)
  d. USB Keyboard (record/pause/stop)
  e. Front USB recording off
Scheduler

<table>
<thead>
<tr>
<th>Date</th>
<th>Start time</th>
<th>End time</th>
<th>Presenter</th>
<th>Room</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-04-01</td>
<td>18:00:00</td>
<td>19:00:00</td>
<td>arec.com_&lt;cnnplif..</td>
<td></td>
<td></td>
<td>Busy</td>
</tr>
</tbody>
</table>

Recording interruption: Manually stop current schedule
Click ![Open Scheduled Events page](image)

Scheduling via Opencast server
1. Enter the Capture agent name, Username, Password and iCalendar URL in these fields.
   a. Capture agent name: the ID to recognize KL-3WT on Opencast platform
   b. Username: Opencast user account
   c. Password: Opencast user password
2. Click Apply. The event schedule is added and appears in the calendar on the Scheduled Events page.
3. Go to Opencast admin, and check if the KL-3WT is correctly registered on Opencast.
“Opencast Admin” -> “Capture” -> “Locations”

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.

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.
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:

<table>
<thead>
<tr>
<th>System settings</th>
<th>Contains device identification, date and time configuration, and booting settings.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network</td>
<td>The device IP assignment in the networking.</td>
</tr>
<tr>
<td>WiFi module</td>
<td>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).</td>
</tr>
<tr>
<td>Firmware</td>
<td>Displays the current firmware version, and provides web-based user a way to update firmware for the device.</td>
</tr>
<tr>
<td>Configuration</td>
<td>Export / Import the configuration.</td>
</tr>
</tbody>
</table>
1.6.1 System settings

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

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.

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Address</td>
<td>192.168.11.200</td>
</tr>
<tr>
<td>Default Gateway</td>
<td>192.168.11.254</td>
</tr>
<tr>
<td>Device Name</td>
<td>CBOX WiFi Module</td>
</tr>
<tr>
<td>DHCP Server</td>
<td>Disable</td>
</tr>
<tr>
<td>SSID</td>
<td>CBOX-WiFi</td>
</tr>
<tr>
<td>Wireless Mode</td>
<td>IEEE 802.11g/n HT20</td>
</tr>
<tr>
<td>Security Mode</td>
<td>WPA-PSK Mixed</td>
</tr>
<tr>
<td>Passphrase of Security</td>
<td>12345678</td>
</tr>
</tbody>
</table>
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.

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:

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.

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.
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

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LIVE</strong></td>
<td>Status</td>
<td>Streaming status</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Status change to red while KL-3WT live broadcast</td>
</tr>
<tr>
<td><strong>00:00:00</strong></td>
<td>Timer</td>
<td>Record timer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Timer change to red while recording</td>
</tr>
<tr>
<td><strong>Streaming</strong></td>
<td>Streaming On/Off</td>
<td>When administrator streaming setting : Enable streaming button</td>
</tr>
<tr>
<td><strong>Record</strong></td>
<td>Video recording</td>
<td>The Record button is red to indicate active recording</td>
</tr>
<tr>
<td><strong>Pause</strong></td>
<td>Pause recording</td>
<td>The preview video are suspended. To resume recording, click Record.</td>
</tr>
<tr>
<td><strong>Stop</strong></td>
<td>Stop to end a recording</td>
<td></td>
</tr>
<tr>
<td><strong>Snapshot</strong></td>
<td>Screen shot of the preview.</td>
<td>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.</td>
</tr>
</tbody>
</table>
2. video recording

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

**Rule**

<table>
<thead>
<tr>
<th>Rule</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Loop recording off</td>
<td>a. Front USB recording off : If internal hard drive &lt; 8hr : max = internal hard drive, show the dialog</td>
</tr>
<tr>
<td></td>
<td>b. Front USB recording on and internal hard drive &lt; USB</td>
</tr>
<tr>
<td></td>
<td>• If internal hard drive &lt; 8hr : max = internal hard drive, show the dialog</td>
</tr>
<tr>
<td>2. Loop recording off</td>
<td>c. Front USB recording on and internal hard drive &gt; USB</td>
</tr>
<tr>
<td></td>
<td>• If USB &lt; 8hr : max = USB, show the dialog</td>
</tr>
<tr>
<td>3. Loop recording on (internal hard drive = 8hr)</td>
<td>a. Front USB recording on and internal hard drive &gt; USB</td>
</tr>
<tr>
<td></td>
<td>• If USB &lt; 8hr : max = USB, show the dialog</td>
</tr>
</tbody>
</table>

---

**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

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.2.50.152</td>
<td>IP Address</td>
<td>Device WAN IP Address</td>
</tr>
<tr>
<td>Audio Volume</td>
<td>Audio volume meter</td>
<td></td>
</tr>
</tbody>
</table>
2.2 Online Director

The KL-3WT embedded Online Director web pages allow users 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:**

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Streaming setting" /> <strong>Streaming</strong> setting</td>
<td>When administrator streaming setting Together with recording</td>
</tr>
<tr>
<td><img src="image" alt="Live streaming" /> <strong>Live streaming</strong></td>
<td>KL-3WT live broadcast</td>
</tr>
</tbody>
</table>
| ![Live](image) **Streaming** | Streaming on/off  
(When administrator streaming setting: Enable streaming button) |
| ![Record](image) **Record** | Click Record and recording begins. The Record button is red to indicate active recording. |
| ![Pause](image) **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](image) **Stop** | Click Stop to end a recording |
| ![Scheduler](image) **Scheduler** | Schedule record on |
| ![Snapshot](image) **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 Manager. 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.

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.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recording</td>
<td>Configure Encoder settings and Bookmark settings for recording.</td>
</tr>
<tr>
<td>Streaming</td>
<td>Configure Encoder settings for streaming.</td>
</tr>
<tr>
<td>Content</td>
<td>Edit the information of the content that will be recorded.</td>
</tr>
<tr>
<td>Theme</td>
<td>Set the overlay files, background images and theme types.</td>
</tr>
</tbody>
</table>

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 ![upload_icon] 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:

<table>
<thead>
<tr>
<th>Icon</th>
<th>Upload Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>![checkmark]</td>
<td>The recording package are uploaded successfully.</td>
</tr>
<tr>
<td>![cross]</td>
<td>The recording upload is failed.</td>
</tr>
<tr>
<td>![playlist]</td>
<td>The recording is in the upload queue.</td>
</tr>
<tr>
<td>![upload]</td>
<td>The recording is uploading at this moment.</td>
</tr>
</tbody>
</table>

### 3.1.2 Download the recording

Select the desired recording and click ![download_icon] . 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 ![delete_icon] . 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 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.

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.

1. Edit the bookmark title.
2. Delete the bookmark
3. Add new bookmark with title.

3.2 Snapshot Management
The Snapshot Manager includes the following features: upload, download, delete, preview.
3.2.1 Upload the photo

Select the desired photo folder and click \( \uparrow \) 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:

<table>
<thead>
<tr>
<th>Icon</th>
<th>Upload Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="icon-uploaded-successfully.png" alt="Image" /></td>
<td>The file package are uploaded successfully.</td>
</tr>
<tr>
<td><img src="icon-upload-failed.png" alt="Image" /></td>
<td>The file upload is failed.</td>
</tr>
<tr>
<td><img src="icon-in-queue.png" alt="Image" /></td>
<td>The file is in the upload queue.</td>
</tr>
<tr>
<td><img src="icon-uploading.png" alt="Image" /></td>
<td>The file is uploading at this moment.</td>
</tr>
</tbody>
</table>

3.2.2 Download the photo

Select the desired photo folder and click \( \downarrow \) . 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 \( \times \) . 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.
3.2.4 Preview the photo

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

Click on the desired photo to preview the photo.
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 / 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.
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
   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
Note: The Primary URL must match the URL you entered in Step 3.

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.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disk full</td>
<td>Disk full</td>
</tr>
<tr>
<td>Network connection failure</td>
<td>Network connection failure</td>
</tr>
<tr>
<td>Wireless microphone connected</td>
<td>Wireless microphone connected</td>
</tr>
<tr>
<td>Live Streaming Error</td>
<td>Live Streaming Error</td>
</tr>
<tr>
<td>Front USB recording error</td>
<td>Front USB recording error</td>
</tr>
<tr>
<td>Operation is denied</td>
<td>Operation is denied</td>
</tr>
<tr>
<td>Front USB recording</td>
<td>Front USB recording</td>
</tr>
<tr>
<td>Disk failure</td>
<td>Disk failure</td>
</tr>
<tr>
<td>Input no video</td>
<td>Input no video</td>
</tr>
<tr>
<td>Front USB drive mount</td>
<td>Front USB drive mount</td>
</tr>
<tr>
<td>Frame</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>Recording is paused</td>
<td><img src="https://via.placeholder.com/200x200.png" alt="Pause" /></td>
</tr>
<tr>
<td>Firmware updating</td>
<td><img src="https://via.placeholder.com/200x200.png" alt="Updating" /></td>
</tr>
<tr>
<td>Update failed!</td>
<td><img src="https://via.placeholder.com/200x200.png" alt="Exclamation" /></td>
</tr>
<tr>
<td>Firmware update failure</td>
<td><img src="https://via.placeholder.com/200x200.png" alt="System" /></td>
</tr>
<tr>
<td>Fan error</td>
<td><img src="https://via.placeholder.com/200x200.png" alt="Fan" /></td>
</tr>
<tr>
<td>Fan failure</td>
<td><img src="https://via.placeholder.com/200x200.png" alt="Shutdown" /></td>
</tr>
<tr>
<td>Shutdown confirmation</td>
<td><img src="https://via.placeholder.com/200x200.png" alt="Power" /></td>
</tr>
</tbody>
</table>

- **Recording is paused**: Pause icon
- **Firmware updating**: Updating, Please wait. System will reboot after setting updating.
- **Update failed!**: Update failed! Press any button to resume the preview. 12 seconds.
- **Firmware update failure**: Firmware update failure
- **Fan error**: Fan error
- **Fan failure**: Fan failure