FCC

Federal Communication Commission interference statement
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: - Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver. - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Warning
The equipment complies with RF exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

FCC Caution
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference and
2. this device must accept any interference received, including interference that may cause undesired operation

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.
Notice: Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

CE
Hereby, AREC Inc., declares that this Media Station is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.
CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

- the ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.;
- no naked flame sources, such as lighted candles, should be placed on the apparatus;
- attention should be drawn to the environmental aspects of battery disposal;
- the use of apparatus in tropical climates.

the instructions for use shall state that the apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
Introduction

Featuring a compact and stand-alone design, AREC LS-110 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>Product Name</th>
<th>Media Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Name</td>
<td>LS-110</td>
</tr>
<tr>
<td>Dimension</td>
<td>200mm(L) x 178mm(W) x 43mm(H)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.37kg</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>12V/2A</td>
</tr>
<tr>
<td>Power Consumption (Max.)</td>
<td>24W (Max.)</td>
</tr>
<tr>
<td>Operating Temperature / Humidity</td>
<td>0°C ~ 40°C / 90%</td>
</tr>
<tr>
<td>Maximum normal load description</td>
<td>Supports two video inputs, including 1 video signal interface (HDMI input) and up to two IP Cam/stream signals. And output the transcoded video/audio to the HDMI port and the HDMI loop.</td>
</tr>
</tbody>
</table>

Package Contents

- AREC Media Station
- Quick Installation Guide
- Power Adapter
- Terminal Block
## Product Appearance

### Front Panel

![Front Panel Diagram]

1. Record function key - Control the Record and Stop function
2. Streaming function key - Turn live streaming on or off
3. Power - Power on / off the device
4. Front USB port - 1. For external USB storage device*
   2. Firmware update via USB disk
   3. Available for USB mouse, keyboard
   4. Available for USB audio input (Note: Connecting an USB audio device via an USB hub is not recommended. It may cause compatibility issues.)

### Rear Panel

![Rear Panel Diagram]

5. Power port - 12V / 2A
6. Audio input - Line audio input
7. Audio output - Line audio output
8. HDMI In (Video Input) - HDMI input source (3840x2160@60Hz)
9. HDMI Loop (Video Output) - HDMI loop through from input (3840x2160@60Hz)
10. HDMI Out (Video Output) - HDMI preview output (1920x1080@60Hz)
11. Back USB port - Available for external hard drive to increase storage
12. Network port - RJ-45 Ethernet connector for network connection
13. RS-232 - Captive screw connector for control over RS-232
14. Reset button - Restoring devices to its factory default state

### Table

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<th>Brief introduction</th>
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**NOTE:** The LS-110 can detect and record to USB storage devices using FAT32, NTFS file systems.
Connection

- Power
- Speaker
- DV
- USB
- RS-232
- Speakerphone
- USB mouse
- USB drive
- USB Keyboard
- Line audio input
- Amplifier
- Video input HDMI
- Audio output
- Video output HDMI
- TV
- Projector
- Network
- Notebook
- Document cam
- External hard disk
- Amplifier
- Projector
- TV
- Video output HDMI
Accessing the Administrator pages

Use the RJ-45 Ethernet cable to connect an IP-based network to the LAN port. Enter the IP address displayed in the lower right side of the screen in your browser to access the System Administration webpage.

Log in Administrator with default username admin and password admin, then entering System Administration webpages.
Make sure the network camera are connected under the same IP network (LAN)* and go to the [Network device manager] page. After the scanning is done, click the Login button and the authentication dialog will pop up. Enter the username and password of the camera to complete the authentication and change the status to [OK]. Then the camera is ready for video input selection. Select the desired camera by its IP address. For video source of encoder, enter RTSP or RTP connection URL.

* For instance, the camera and LS-110 connected under the same router with the same LAN address.

Router(192.168.0.1)  ↓  LS-110(192.168.0.10)  ↓  IP Camera(192.168.0.20)
Step 2: Set up audio volume in [Audio] of [Media I/O].

Step 3: Set up date and time of host machine in [System settings] of [System].

**Getting start a recording**

Start a recording from the front panel
Press [ ] button and recording begins. The LED indicator of [ ] button is red to indicate active recording.
Press [ ] button to end a recording.
Start a recording via the Online director
Entering the Online director webpage via [System Administration] by clicking the [ ] button and opening a new tab; or log in 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.

The Online director allows user to control recording and have a live stream view of the output video. The control panel makes it easy to apply layout, select background, and control the audio recorded during the recording process.
Important Security Policy ........................................................................................................................................

- Precautions
  1. Please open the product package carefully; we recommend you keep this packaging for future transport, storage or maintenance use.
  2. There are no switches or adjustment buttons required for operation inside this product, so for your safety, please do not open the casing on your own, or vigorously rotate, shake or use any other inappropriate ways to operate this product in order to avoid electrical shocks and voiding the warranty. You can contact a local dealer directly if you have any questions.
  3. Heat will be generated during the use of this product; therefore there must be sufficient ventilation for the temperature of the unit to remain at a stable status. So please use the product under normal environments to prolong the usage life, and avoid installing it in the following environments.
     - Locations that are unstable or have incomplete planes
     - Locations with powerful magnetic fields
     - Locations where it is damp or may have water leakage
     - Locations that are too hot, close to heaters and air hoses, or be exposed to direct sunlight for long periods of time
     - Locations that are dusty
     - Locations where there are possible shocks
     - Locations close to power amplifiers
  4. If you notice smoke or odor coming from the product, please quickly remove the power cable and send it to a maintenance center for processing.
  5. To avoid electrical shock, the plug of the adapter should be stably and completely inserted into the power outlet and cannot be exposed; it must also have sufficient capacity to withstand the current transmission. Please do not plug the adapter into the power outlet before connecting the cable in order to avoid danger.
  6. If not used for long periods of time, please unplug the power plug, and to ensure electrical safety, when unplugging the adapter, please hold the plastic part of the adapter with dry hands and then unplug the adapter. Please properly connect the cables according to the printed instructions on the installation manual and the machine to ensure optimized usage effects.
  7. The USB ports of this product are designed for firmware updates, and people must equip with ESD protection devices when using them. When the USB Ports are damaged by an ESD impact, the product will automatically enter the protection state. Once in the protection state, the product must be restarted.