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Model: HD-A4L

1. PRODUCT OVERVIEW

The AzarPixel Huidu HD-A4L is a versatile dual-mode LED display media player designed for digital signage applications. It supports both synchronous and asynchronous playback, offering flexible content management via Wi-Fi, Gigabit LAN, or optional 4G/5G connectivity. This device is engineered for high-pixel capacity and multi-channel video performance, making it suitable for various LED display setups.

Key Features

- **Dual-Mode Playback:** Supports synchronous and asynchronous content delivery.
- **High Pixel Capacity:** Up to 655,360 pixels, with a maximum horizontal resolution of 16,384 pixels or vertical of 8,192 pixels.
- **Multi-Channel Video Decoding:** Capable of handling up to 2 channels of 4K, 6 channels of 1080p, 10 channels of 720p, or 20 channels of 360p videos simultaneously.
- **Versatile Connectivity:** Features HDMI input, USB 3.0, USB OTG, TRS audio output, Wi-Fi, and Gigabit Ethernet.
- **Sensor Integration:** Supports external temperature, humidity, brightness, and air quality sensors.
- **Industrial-Grade Reliability:** Designed for 24/7 operation in temperatures from -40°C to +70°C.
- **Efficient Power Consumption:** Less than 18W, operating on DC 5V 3A or 12V 1.5A.

Package Contents

Verify that all items are present in the package:

- 1 × HD-A4L Multimedia Player
- 1 × Power Adapter
- 1 × HDMI Cable
- 1 × Wi-Fi Glue Stick Antenna
- 1 × Certificate of Qualification



Image: The HD-A4L player shown with its included accessories: power adapter, HDMI cable, and Wi-Fi antenna.

2. SETUP GUIDE

Follow these steps to set up your HD-A4L media player.

2.1 Physical Connections

1. **Connect Wi-Fi Antenna:** Screw the provided Wi-Fi glue stick antenna into the designated port on the player.
2. **Power Connection:** Connect the power adapter to the DC 5V-12V input port on the player and plug it into a power outlet.
3. **LED Display Connection:** Connect the player's LED1 or LED2 Gigabit Ethernet output ports to your LED receiving cards (e.g., HD-R708, HD-R712, HD-R716) using standard Ethernet cables.
4. **HDMI Input (Optional):** If using synchronous playback from an external source, connect an HDMI cable from your source device to the HDMI IN port on the player.
5. **Audio Output (Optional):** For audio output, connect speakers or an audio system to the TRS 3.5mm Audio port.
6. **USB Devices (Optional):** Connect USB storage devices or peripherals to the USB 3.0 or USB 2.0 ports.
7. **Sensors (Optional):** Connect compatible external sensors (temperature, humidity, brightness, air quality) to the designated sensor ports.



Image: Rear panel of the HD-A4L player, highlighting the various input and output ports including DC power, LAN, HDMI IN, USB, and LED output ports.

2.2 Initial Power On

After making all necessary connections, switch the power button on the front panel to the "ON" position. The PWR indicator light should illuminate, and the device will begin its boot sequence.



Image: Front view of the HD-A4L player, showing the power switch and indicator lights.

2.3 Network Configuration

The HD-A4L supports multiple network connection methods for content management and remote control.

- **Wi-Fi:** Once powered on, the device will broadcast a Wi-Fi hotspot or can connect to an existing Wi-Fi network. Use the LedArt Mobile App or XiaoHui Cloud Platform to configure Wi-Fi settings.
- **Gigabit LAN:** Connect an Ethernet cable from your network router or switch to the LAN IN port on the player for a wired network connection.
- **4G/5G (Optional):** If a 4G/5G module is installed, insert a SIM card into the SIM slot for mobile network connectivity.

2.4 Software Setup

To manage content and settings, download and install the LedArt Mobile App or access the XiaoHui Cloud Platform. Refer to the respective software documentation for detailed instructions on configuration and content upload.

3. OPERATING INSTRUCTIONS

The HD-A4L offers flexible operation modes for various digital signage needs.

3.1 Playback Modes

- **Asynchronous Playback:** Content is stored directly on the player's internal storage (16GB) or expanded U-disk. Playlists are scheduled and played independently of an external source. This is ideal for standalone digital signs.

- **Synchronous Playback:** The player acts as a display controller for an external HDMI source. The content displayed on the LED screen mirrors the HDMI input. Use the "ASYNC" button on the front panel to switch between asynchronous and synchronous modes.

3.2 Content Management

Content can be uploaded and managed through the following methods:

- **LedArt Mobile App:** Connect your smartphone or tablet to the player's Wi-Fi hotspot or the same local network to upload content, create playlists, and configure settings.
- **XiaoHui Cloud Platform:** For remote management and large-scale deployments, use the cloud platform to publish content, monitor device status, and update firmware over the internet.
- **USB Drive:** Directly transfer content files to the player via a USB drive.

3.3 Video Playback

The HD-A4L supports a wide range of video formats and advanced playback features:

- **Supported Formats:** MP4, AVI, MOV, MKV, and others.
- **Multi-Channel Support:** Play multiple videos simultaneously, with capabilities up to 2 channels of 4K, 6 channels of 1080p, 10 channels of 720p, or 20 channels of 360p.
- **Adaptive Scaling:** Videos are automatically scaled to fit the display resolution.
- **Picture-in-Picture (PIP):** Display multiple video sources or content elements concurrently.
- **Synchronous Switching:** Seamless transitions between different content sources or playlists.

3.4 Sensor Integration

When external sensors are connected, the player can display real-time environmental data (temperature, humidity, brightness, air quality) on the LED screen. Configuration for sensor data display is done through the LedArt software or Cloud Platform.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your HD-A4L media player.

4.1 Cleaning

- Ensure the device is powered off and unplugged before cleaning.
- Use a soft, dry cloth to wipe the exterior of the player.
- Do not use liquid cleaners, aerosols, or solvents, as these may damage the device.
- Keep ventilation openings clear of dust and debris to prevent overheating.

4.2 Firmware Updates

Periodically check for firmware updates through the LedArt software or XiaoHui Cloud Platform. Firmware updates can improve performance, add new features, and resolve potential issues. Follow the instructions provided with the update package carefully.

4.3 Environmental Considerations

The HD-A4L is designed for industrial-grade reliability, operating in temperatures from -40°C to +70°C. However, avoid exposing the device to direct sunlight, extreme humidity, or corrosive environments to ensure optimal performance and lifespan.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with the HD-A4L media player.

| Problem | Possible Cause | Solution |
|---|--|--|
| No power / Device not turning on | Power adapter not connected or faulty; Power switch off. | Ensure power adapter is securely connected and plugged in. Check if the power switch is in the "ON" position. Test with a different power outlet or adapter if available. |
| LED screen shows no display or abnormal display | Ethernet cable connection issue; Incorrect LED display configuration; Player in synchronous mode without HDMI input. | Verify Ethernet cables between player and receiving cards are secure. Check LED display parameters in LedArt software. If in synchronous mode, ensure an active HDMI source is connected or switch to asynchronous mode. |
| Cannot connect to Wi-Fi or LAN | Incorrect network settings; Wi-Fi antenna not connected; Router issue. | Ensure Wi-Fi antenna is properly installed. Check network settings in LedArt or Cloud Platform. Verify LAN cable connection. Restart your router and the HD-A4L player. |
| Video playback issues (stuttering, no video) | Unsupported video format; Corrupt file; Insufficient storage/RAM; Network bandwidth issues (for streaming). | Ensure video format is supported. Re-upload the content. Check available storage and RAM. For streaming content, verify network stability and bandwidth. |
| Remote control via app/cloud not working | Network connectivity issues; Incorrect device registration; App/platform server issues. | Verify the player has a stable internet connection. Ensure the device is correctly registered in the LedArt app or XiaoHui Cloud Platform. Check for any service outages from the platform provider. |

If the problem persists after attempting these solutions, please contact customer support.

6. SPECIFICATIONS

Detailed technical specifications for the AzarPixel Huidu HD-A4L Dual-Mode LED Display Media Player.

| Feature | Detail |
|------------------------------------|--|
| Model Name | Huidu HD-A4L |
| Brand | AzarPixel |
| Playback Modes | Synchronous & Asynchronous |
| Max Pixel Capacity | 655,360 pixels (Max Width: 8192 px, Max Height: 3840 px) |
| Video Decoding | Up to 2 channels 4K, 6 channels 1080p, 10 channels 720p, 20 channels 360p |
| Connectivity Technology | Ethernet, USB, Wi-Fi (optional 4G/5G) |
| Connector Types | RJ45 (LAN IN, LED1, LED2), USB-A (3.0, 2.0), USB OTG, TRS 3.5mm Audio, HDMI IN, Sensor Ports, DC Power |
| RAM | 2GB |
| Storage | 16GB (expandable via U-disk) |
| Power Input | DC 5V 3A or 12V 1.5A |
| Power Consumption | Less than 18W |
| Operating Temperature | -40°C to +70°C |
| Product Dimensions | 6.89 x 3.98 x 1.26 inches |
| Item Weight | 8.5 ounces |
| Supported Internet Services | LedArt Mobile App, XiaoHui Cloud Platform |

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official AzarPixel website or contact their customer service directly.

- **Online Resources:** Visit the AzarPixel Store on Amazon for product information and support links.
- **Contact Support:** For specific technical assistance or warranty claims, please reach out to the seller or manufacturer through the contact information provided at the point of purchase.

Keep your purchase receipt or order number handy when contacting support.