



PRODUCT SPECIFICATION

Multimedia Player
HD-A3L

Version 1.0

I . Product Overview

A3L is an LED display multimedia player that supports playing videos, pictures, GIF animations, texts, WPS documents, tables, clocks, timing, and other programs.

Standard configuration of Wi-Fi, support mobile phone APP - "LedArt" wireless control; support access to the "XiaoHui Cloud" platform, easy to achieve Internet remote cluster management; The capacity storage space makes asynchronous playback worry-free; it supports external connection of various environmental monitoring sensors to realize real-time viewing of environmental monitoring data.

A3L has high video playback performance, added terminal network security protection mechanism, simple software operation, complete functions, and ultra-high cost performance. It can be applied to LED displays in various commercial display, smart display and other fields.

II. Product Features

Input:

1. Support 1 communication network port for debugging parameters, faster program sending speed;
2. Support 1 channel USB2.0, 1 channel USB3.0 communication interface, which can be used for inserting programs and expanding capacity;
3. Supports 1 channels sensor input interface, externally connected to various environmental monitoring sensors.

Output:

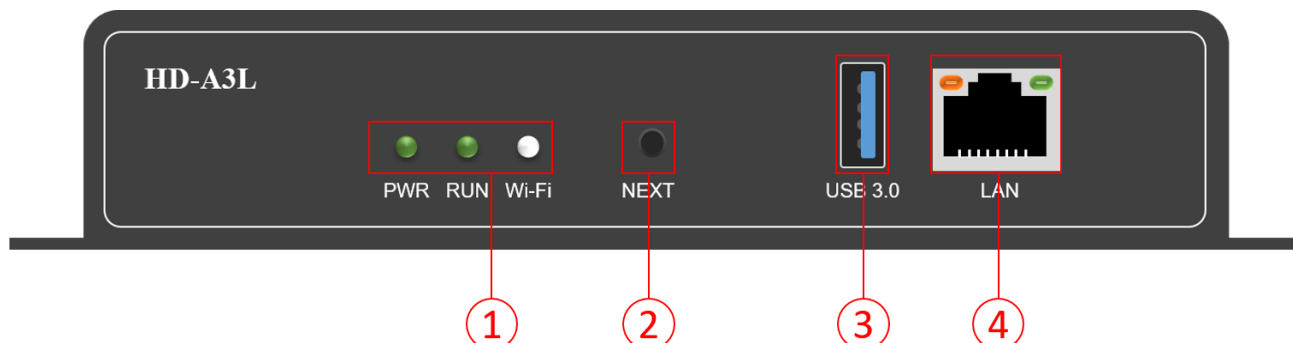
1. Standard 1 Gigabit output network ports, directly cascaded HD-R series receiving card control display;
2. The maximum control range is 655,360 pixels, the maximum horizontal (discounted) support is 8192 pixels, and the maximum vertical support is 2560 pixels;
3. 1 channel TRS 3.5mm standard two-channel audio output.

Functions:

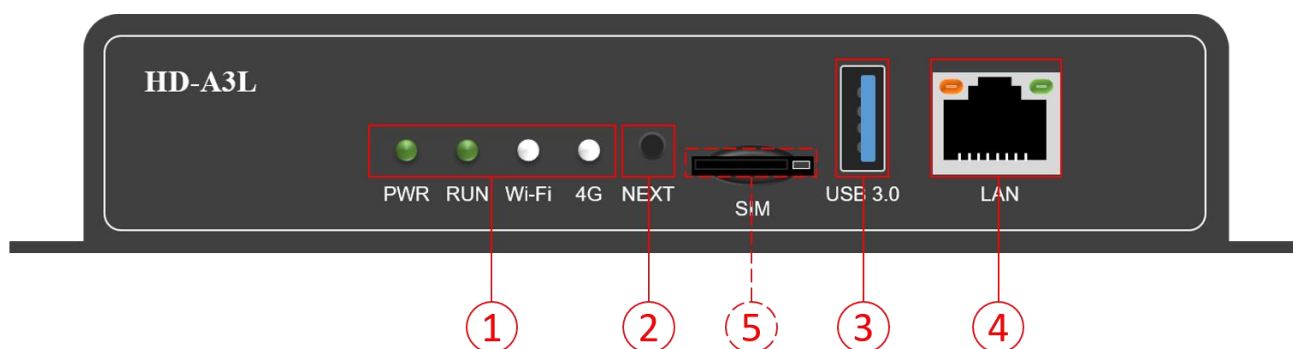
1. Standard Wi-Fi, support mobile phone APP wireless control (support STA mode, in this mode, the device can connect to the nearby Wi-Fi network);
2. Support multi-channel video window playback (support up to 1-channel 4K or 2-channel 1080P or 4-channel 720P or 6-channel 360P);
4. Support 4G (optional) access to XiaoHui Cloud platform to realize Internet remote cluster management.

III. Appearance Description

Standard Version Front Panel:



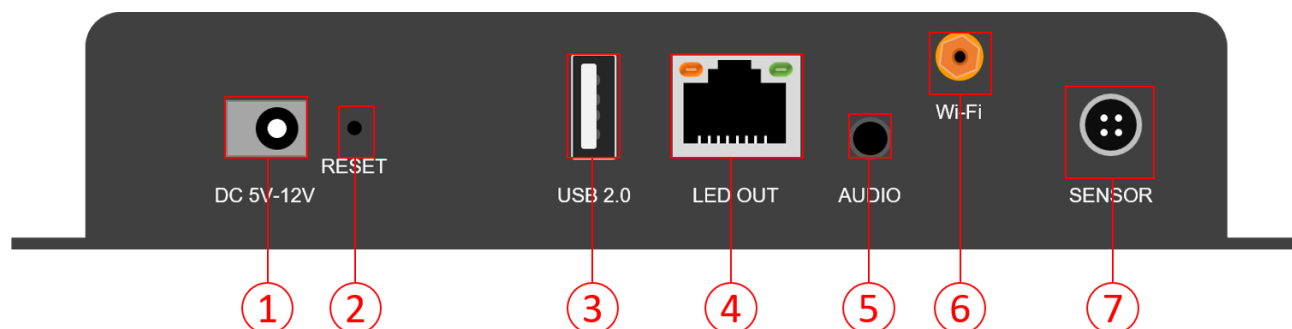
4G Version Front Panel:



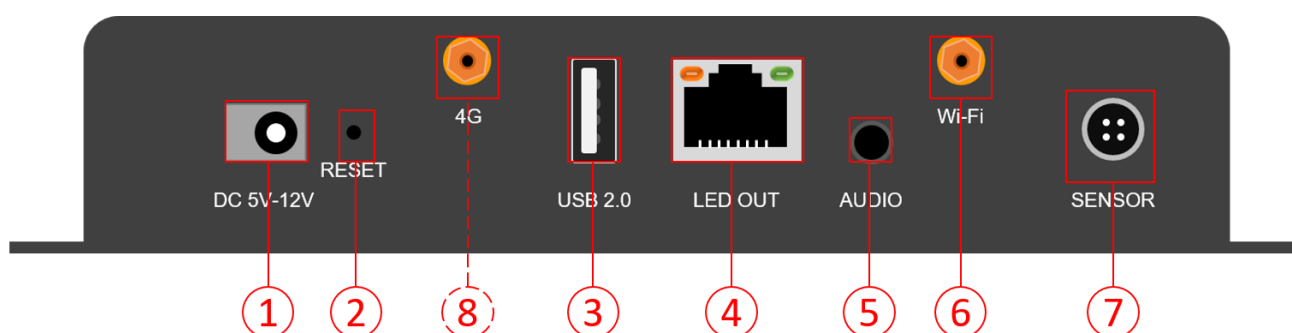
| Serial number | Name | Description |
|---------------|---------------|--|
| 1 | Working light | <p>PWR: Power indicator light, the green light is always on, and the power input is normal</p> <p>RUN: System running light, the green light is flashing, the operating system is running normally; the green light is always on or off, the system is running abnormally</p> <p>Wi-Fi: Wireless indicator light, in AP mode, the green light is blinking; in STA mode, the green light is always on. The red light</p> |

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| | | <p>is blinking, the Wi-Fi is abnormal, and the light is off; the Wi-Fi bridge cannot connect to the server, and the yellow light is always on</p> <p>4G: Communication network indicator, green light is always on, the connection to the cloud server is successful; yellow light is always on, the cloud service cannot be connected; red light is always on, there is no signal or the SIM is in arrears or cannot dial; the red light is blinking, the SIM cannot be detected; No light, no module detected(Only 4G version has 4G indicator light).</p> |
| 2 | Function button | Switch program play, support change to TEST mode |
| 3 | USB | USB3.0 for updating programs, inserting programs or expanding capacity |
| 4 | Input network port | 100Mbps network port input, connect to computer to debug and release programs, can be used to access LAN or Internet |
| 5 | SIM card slot | Nano SIM card slot, providing 4G/5G networking for remote control (optional 4G module) |

Standard Version Rear Panel:



4G Version Rear Panel:

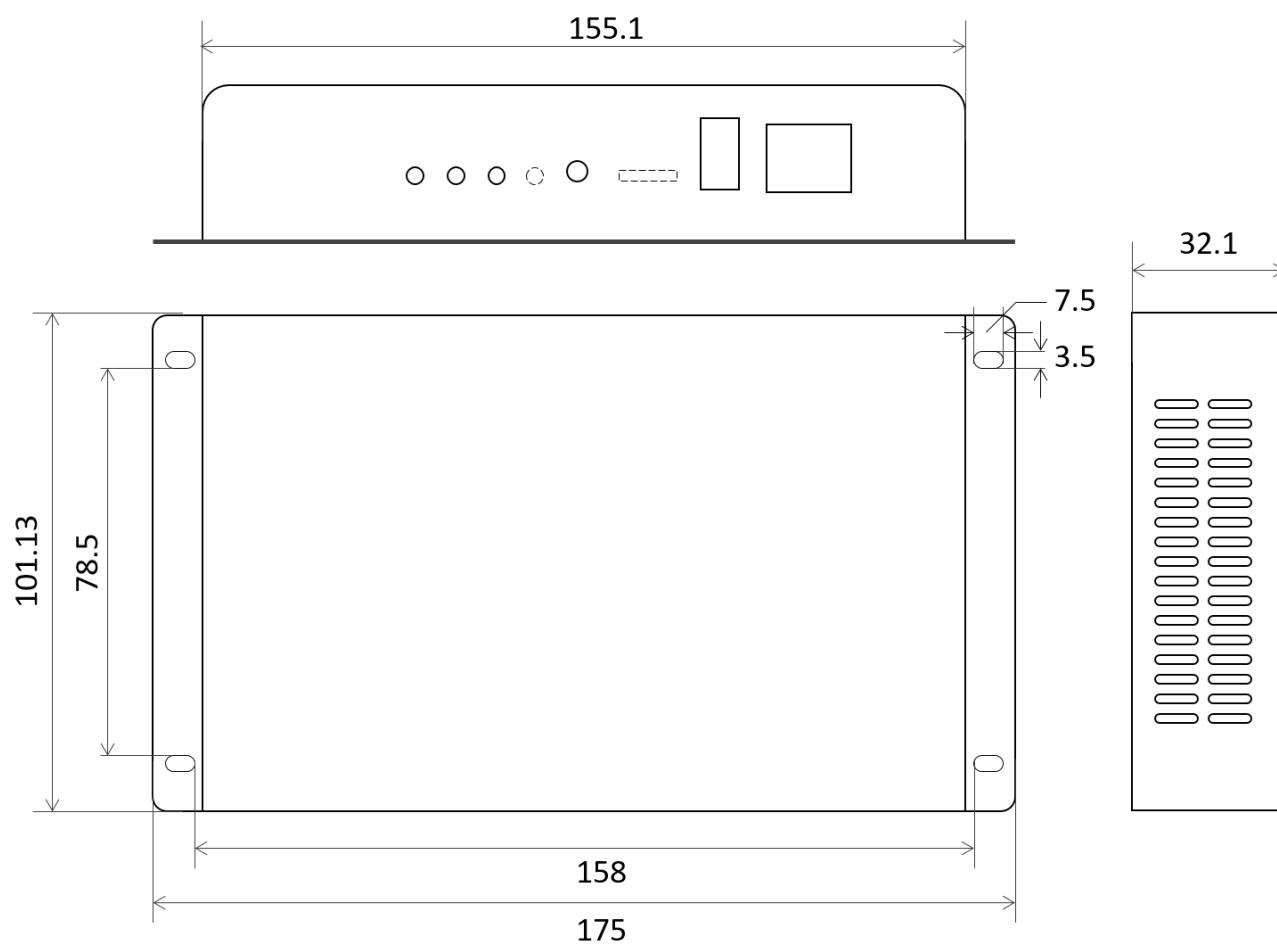


| Serial number | Name | Description |
|---------------|---------------------|--|
| 1 | Power supply | 5V 3A ,12V 1.5A |
| 2 | Reset | Reset pinhole |
| 3 | USB 2.0 | Used for updating programs, inserting programs or expanding capacity(support change to OTG function) |
| 4 | Output network port | Gigabit output network port, cascaded with HD-R series receiving card |
| 5 | Audio output | TRS 3.5mm standard two-channel audio output port |
| 6 | Wi-Fi antenna | Connect Wi-Fi antenna to enhance wireless signal |
| 7 | Sensor | External temperature, humidity, brightness, wind speed, wind |

| | | |
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| | | direction, noise, PM2.5, PM10, CO ₂ and other sensors |
| 8 | 4G antenna | Connect 4G antenna (Only 4G version has) |

IV. Product Parameters

Dimensions (mm):



Tolerance: ± 0.3 Unit: mm

Product Specifications:

| | | |
|------------------------------|---|--------------------------------|
| Electrical parameters | Input power | DC 5V-12V |
| | Maximum power consumption | 18W |
| Storage Space | Random access memory | 1GB |
| | Internal storage | 16GB |
| Storage environment | Temperature | -40℃ ~ 80℃ |
| | Humidity | 0%RH ~ 80%RH (No condensation) |
| Working environment | Temperature | -40℃ ~ 70℃ |
| | Humidity | 0%RH ~ 80%RH (No condensation) |
| Packaging information | list: 1×A3L 1 x power adapter 1×Wi-Fi Glue Stick Antenna 1× Certificate of qualification Note: 4G antenna are work with 4G version | |
| Size | 175mm×101.1mm×32.1mm | |
| Net weight | Standard version: 240g 4G version: 260g | |

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|--------------------------|---|
| Protection degree | IP20 Please pay attention to water resistance, e.g. prevent water dripping into the product, do not get wet or rinse the product |
| System software | Android 11.0 operating system software Android terminal application software |

Media Decoding Specifications:

Pictures

| Category | Decoding | Size | Format | Remarks |
|----------|-----------------------|---------------------------------|----------|---|
| JPEG | JFIF file fommat 1.02 | 48x48 pixels to 8176x8176pixles | JPG、JPEG | Non-interlaced scanning is not supported; SRGB JPEG is supported; Adobe RGB JPEG is supported |
| BMP | BMP | Unlimited | BMP | NA |
| GIF | GIF | Unlimited | GIF | NA |
| PNG | PNG | Unlimited | PNG | NA |
| WEBP | WEBP | Unlimited | WEBP | NA |

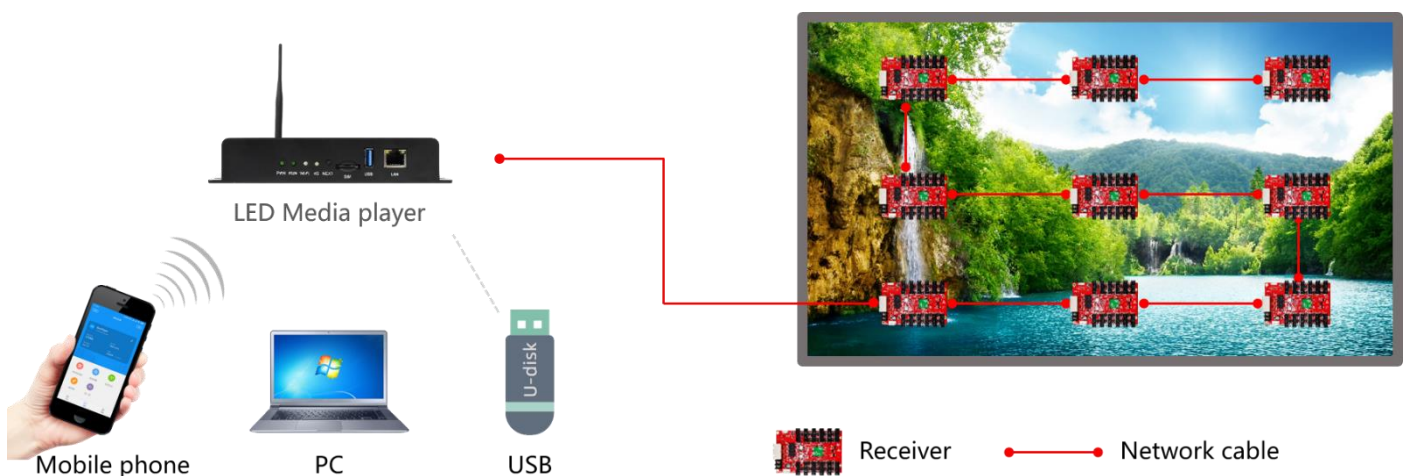
Videos

| Category | Decoding | Resolution | Max frame rate | Max bit rate (Ideal situation) | Format | Remarks |
|------------|------------|----------------------------------|----------------|--------------------------------|----------------------------------|--|
| MPEG-1/2 | MPEG-1/2 | 48×48 pixels to 1920×1088 pixels | 30fps | 80Mbps | DAT, MPG, VOB, TS | Support Field Coding |
| MPEG-4 | MPEG-4 | 48×48 pixels to 1920×1088 pixels | 30fps | 38.4Mbps | AVI, MKV, MP4, MOV, 3GP | MS, MPEG4 v1/v2/v3, and GMC are not supported |
| H.264/AVC | H.264 | 48×48 pixels to 4096×2304 pixels | 2304P@30fps | 100Mbps | AVI, MKV, MP4, MOV, 3GP, TS, FLV | Support High and High 10 Profile Coding, MBAFF |
| MVC | H.264 MVC | 48×48 pixels to 4096×2304 pixels | 2304P@30fps | 100Mbps | MKV, TS | Only Stereo High Profile is supported |
| H.265/HEVC | H.265/HEVC | 64×64 pixels to 4096×2304 pixels | 2304P@60fps | 100Mbps | MKV, MP4, MOV, TS | Support Main Profile& Main10 Profile, Tile & Slice |
| GOOGLE VP8 | VP8 | 48×48 pixels to 1920×1088 pixels | 30fps | 38.4Mbps | WEBM, MKV | NA |
| GOOGLE VP9 | VP9 | 64×64 pixels to 4096×2304 pixels | 30fps | 80Mbps | WEBM, MKV | NA |

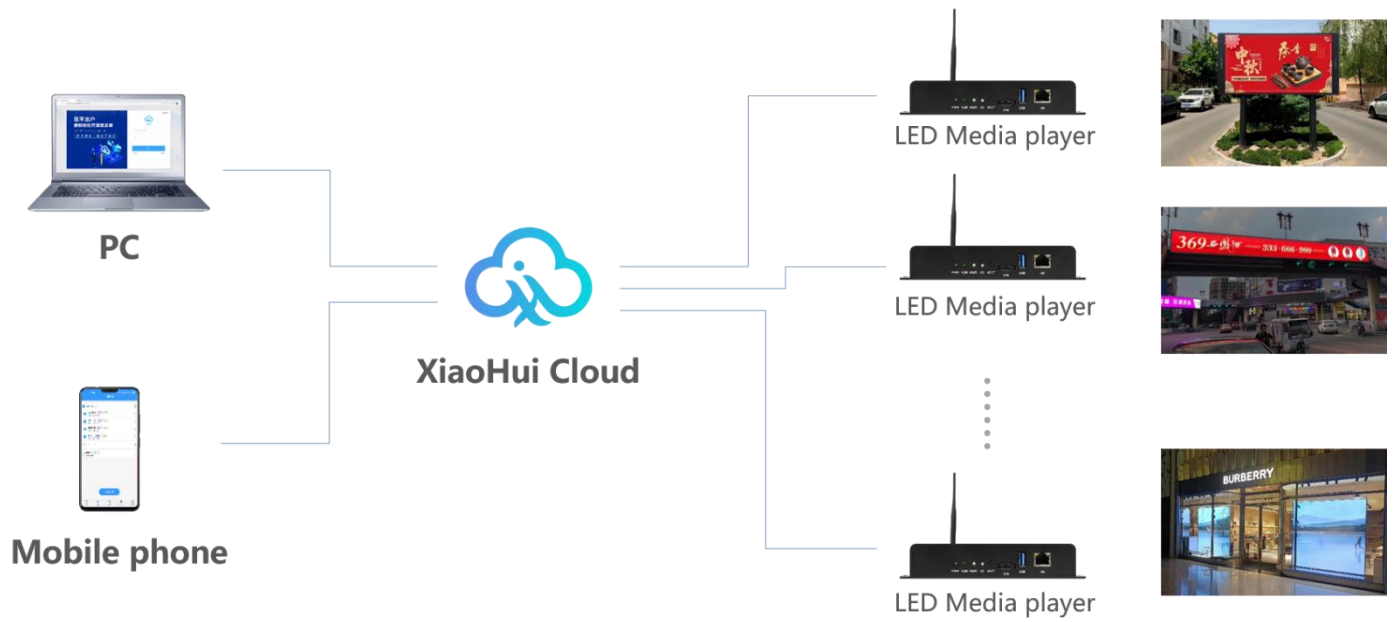
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|-------------|-------|---|-------|----------|------------------------|-------------------------|
| H.263 | H.263 | SQCIF(128x96) QCIF(176x144) CIF(352x288) 4CIF(704x576) | 30fps | 38.4Mbps | 3GP, MOV, MP4 | H.263+ is not supported |
| VC-1 | VC-1 | 48x48 pixels to 1920x1088 pixels | 30fps | 45Mbps | WMV, ASF, TS, MKV, AVI | NA |
| MOTION JPEG | MJPEG | 48x48 pixels to 1920x1088 pixels | 30fps | 38.4Mbps | AVI | NA |

V. Application Scenarios

1. Single-node control, support Wi-Fi, network port direct connection, USB interface for communication.



2. Cluster control, support Internet remote control.



VI. Product Appearance





Illustration:

Welcome to choose Huidu Technology products. There may be differences between the product pictures in the specification and the actual appearance (such as interface caps, antenna installation, etc.), please refer to the actual product. If you have any questions, please contact technical support or salesperson for confirmation.