

UVP300S

LED Playback Control Processor



Specification

Introduction

UVP300S is a playback control processor specially designed for indoor LED screen display, integrating Android application system and sending function, and can add third-party APP applications, with powerful interaction and broadcast control capabilities.

UVP300S supports wireless screen projection on Windows, Mac OS, iOS, and Android multi-platform terminals, which can achieve 8m distance delay ≤ 80 ms, and standard 1080P video sources can be transmitted wirelessly at a maximum of 60fps per second. At the same time, it provides 4 scene modes for different application scenarios, so that document presentation, video playback, and remote meeting can match the best display effect.

UVP300S does not need to redesign or change the screen structure, it can be hung on the wall or placed on the desktop for quick construction and use, and is widely used in enterprise exhibition halls, government and enterprise education spaces, hotel lobbies, remote consultation and other LED single display application scenarios.

Features

Inputs and Outputs

- 2 HDMI 1.3 inputs.
- 3 USB 2.0 inputs. It can be used for multimedia material playback and function expansion.
- 6-channel network port output, with a maximum load of 3.9 million pixels.
- 2 audio outputs.
- 1× SPDIF digital audio output interface.
- 1×3.5mm audio output.
- Supports display output screen scaling.
- Width range 800 ~ 4096.
- Height range 600 ~ 1920.
- The total load of the device is ≤ 3.9 million pixels.

System Functions

- Based on Android11 customized desktop UI system, third-party APP applications can be added.
- Support wireless screen projection on multi-platform terminals.
Including Windows, Mac OS, iOS, and Android systems.
- Cooperate with the terminal APP to realize wireless screen projection control.
 - Mirror counter-control: The speaker reverses the control of the LED conference screen through the terminal.
 - Wireless snapshot: Take a screenshot at any time through the terminal to record the details of the meeting.
 - Wireless speech: Participants speak directly through the terminal microphone, and the sound can be wirelessly transmitted to the sound system of the conference screen.
- Multi-terminal program broadcast control.
 - Mobile APP intelligent control: You can install the APP application through the mobile phone to realize program production and release and display screen control.
 - Remote control for convenient broadcast control: local program broadcast control and simple program production can be carried out on the display screen.
 - U disk playback: It can be plug and play or copy playback, and supports 4K HD video decoding in mainstream encoding formats such as HEVC/H.265/H.264.
- Support effect adjustment.
It provides 4 scene modes: standard, soft, cinema, and conference, and can customize parameters such as brightness, saturation, and contrast.
- Dual Wi-Fi mode.
Wi-Fi Internet access and wireless hotspot can be turned on at the same time.
- Support one-click to turn on the eye protection mode.
- Support for whiteboard writing and annotation.

Device Controls

- Gigabit Ethernet control network port, support TCP/IP protocol.
- It supports infrared standby wake-up, and the standby enters the low-power mode, so that the standby power consumption is less than 0.5W.
- Support connection relay for easy LED display power management.
- Bluetooth 5.0 is supported.
It can be connected to Bluetooth voice remote control, Bluetooth mouse, Bluetooth keyboard, Bluetooth speaker and other commonly used peripherals.
- Compatible with mainstream conference peripherals, including cameras, speakers, laser pointers, etc.

Appearance

Front panel



Name	Description
Power indicator (on the standby button)	<ul style="list-style-type: none"> • Solid white: The power supply is normal. • Off: The power is not supplied, or the power supply is abnormal
Status LED	<ul style="list-style-type: none"> • Solid green: The device is running normally. • Off: The device is not running.
Standby button	<ul style="list-style-type: none"> • Press the button to power on or power off the device. • Hold down the button to restart the device
USB 2.0	<p>Support a mouse, keyboard, USB drive and other common USB devices.</p> <ul style="list-style-type: none"> • Supported image formats: *.jpg, *.bmp, *.png • Supported video formats: *.avi, *.mpg, *.vob, *.mov, *.mkv, *.rmvb, *.mp4, *.ts, *.flv • Support FAT32 and NTFS file systems. Do not support exFAT or FAT16 file system.

Back panel

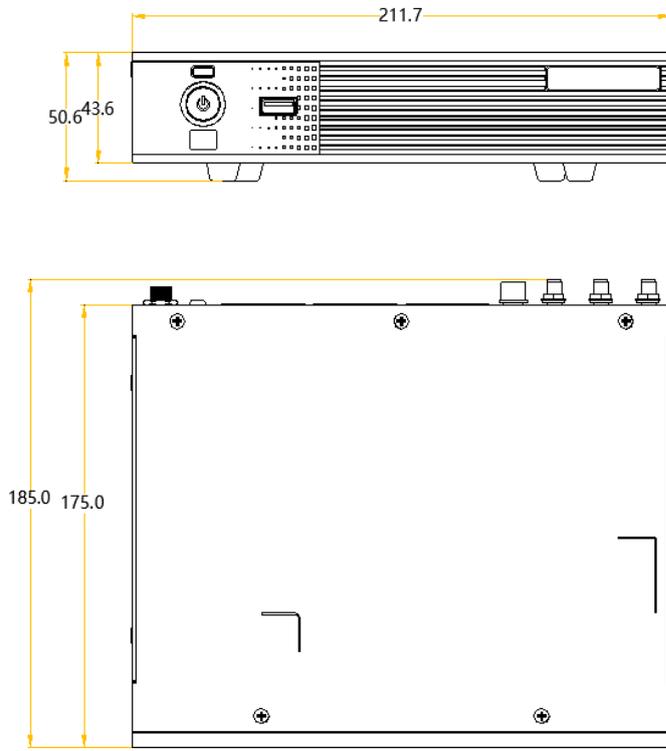


Type	Connector	Description
Input	HDMI IN 1~2	<p>2x HDMI 1.3 (Type A)</p> <ul style="list-style-type: none"> • Max resolution: 2048×1152@60Hz • Min resolution: 800×600@60Hz • Custom resolutions supported Width range: 800 - 3840 pixels (Forced) Height range: 600 - 3840 pixels (Forced) • Supported frame rates: 30 Hz, 50 Hz, 60 Hz • Do NOT support interlaced signal input. • HDCP 1.4 compliant, backwards compatible
	USB2.0 1~2	2× USB 2.0, support the connection of common USB devices

		<p>such as mice, keyboards, and USB flash drives.</p> <ul style="list-style-type: none"> • Supported file types: *.jpg, *.bmp, *.png. • Supported file types: *.avi, *.mpg, *.vob, *.mov, *.mkv, *.rmvb, *.mp4, *.ts, *.flv. • The file system supports FAT32 and NTFS, but does not support exFAT and FAT16.
Output	1~6	<p>6×RJ45 (1Gps)</p> <ul style="list-style-type: none"> • Point-to-point output: up to 2.6 million pixels. • When using the zoom function: up to 3.9 million pixels. (Limit width: 4096 limit height 1920).
	HDMI OUT	Only standard 1080p video sources can be output.
	AUDIO	3.5mm audio jack.
	SPDIF	Optical digital audio output.
Control interface	Gigabit Ethernet port	Connect to an external network or connect to the LCT host computer software.
	SENSOR	Sensor interface for connecting brightness sensors.
	Phoenix terminal (4pin)	<p>1× RS232 central control interface, used to connect with central control equipment.</p> <ul style="list-style-type: none"> • Baud rate: 115200bps. • Data bits: 8, stop bits: 1, no check bits, no flow control.
	Phoenix terminal (6pin)	<ul style="list-style-type: none"> • 1×AND IN It is used for infrared control instruction learning. • 1×AND OUT Support programmable IR control. • 1×I/O <ul style="list-style-type: none"> – It supports programmatic triggers to execute various functional requirements. – It supports two modes: input and output. – The input and output I/O voltage is 3.3V. • 1×RELAY <ul style="list-style-type: none"> – Connect the relay to control the power on and off of the connected equipment. – Voltage: 30V DC, current max 3A. • 1×GND Ground interface.
Antenna interface	Wi-Fi AP 1~2	Specification 2T2R, for connecting Wi-Fi antennas/Bluetooth antennas.
	Wi-Fi STA	Specification 1T1R, used to connect Wi-Fi antennas.
Power connector	DC 12V ± 10%	

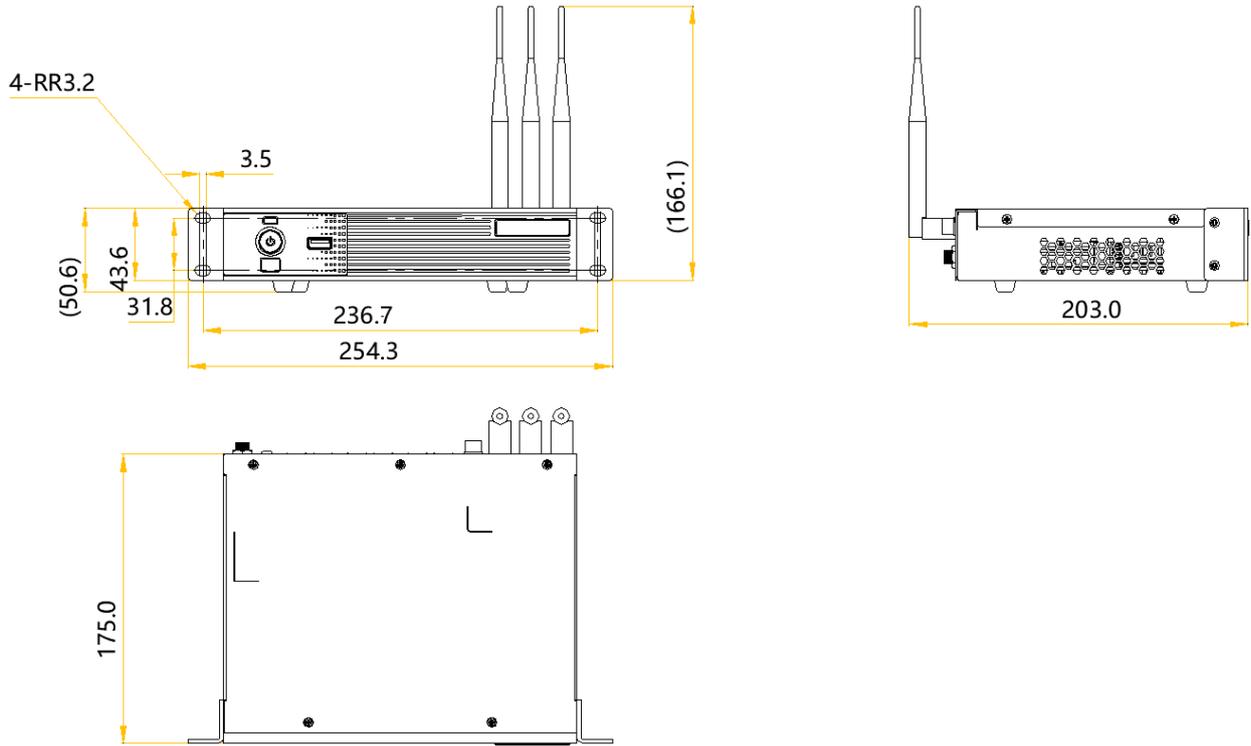
Dimensions

Single-device



Tolerance: ± 0.3 Unit: mm

Install the mounting and antennas



Tolerance: ± 0.3 Unit: mm

Application

LED屏



Note

The UVP300S LED broadcast controller product package in the application scenario diagram is detailed in the packaging list. The screen projector (USB interface: MX-P2L, TYPE-C interface: TB1304) is not included in the UVP300S LED broadcast controller product package, and users need to place a separate order for purchase. When paired with the TB1304 screen projector, you need to use a TYPE-C to USB adapter to connect to the LED broadcast controller processor for pairing.

Product Specifications:

Electrical Specifications	Input voltage	DC 12V 3A, the power supply polarity is negative on the outside and positive on the inside. (Power adapter input)
	Rated power consumption	21W
Storage space	Running memory	2GB
	Internal storage	32GB
Working environment	temperature	-20°C~60°C
	humidity	0%RH~80%RH, No condensation
Storage environment	temperature	-40°C~80°C
	humidity	0%RH~95%RH, No condensation
Physical Specifications	size	211.7mm×185.0mm×50.6mm
	net weight	1.12KG
	Total weight	2.9KG Note: The sum of the weight of the product, accessories, and packaging materials when the following packaging is used
Packaging information	Dimensions (L×W×H)	387mm×359mm×173mm
	List	<ul style="list-style-type: none"> • 1×UVP300S • 1× Power adapter • 1× Bluetooth voice remote control • 1. × network cable • 1× HDMI cable • 3. × antenna • 2. × hanging ears • 2× No. 7 battery • 1. × certificate

The current and power consumption measurement conditions are as follows, and the data may vary depending on the product settings, usage environment, and different measurement status.

Statements and Warnings

Battery Declaration

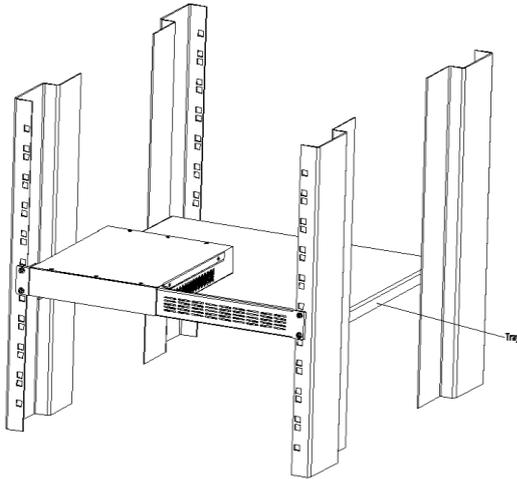
- The battery is not replaceable.
- Throwing a battery into a fire or heating furnace, or mechanically crushing or cutting the battery, may cause the battery to explode.

- Leaving the battery in an extremely high temperature environment may result in the battery exploding or the leakage of flammable liquid or gas.
- Exposing the battery to extremely low air pressure may result in the battery exploding or the leakage of flammable liquid or gas.

Installation Statement

Installation Scenario 1:

The product can be placed on the cabinet (bracket mounting), please use 4 screws with size M5*12 to install, and the mounting bracket should be able to bear at least 5kg of weight.



Note

Connectors are not included in UVP300S package and are sold separately.

Installation Scenario 2:

The product can be hung on the wall, please use 2 screws with size M4*12, the screw installation spacing is 83mm, and the screws should be able to bear at least 10kg weight.

Other things to note:

- Increased operating ambient temperature—If installed in an enclosed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be higher than room temperature. Therefore, when installing the device, consider installing the device in an environment that matches the maximum ambient temperature (T_{ma}) specified by the manufacturer.
- Reduced airflow—When the equipment is rack-mounted, the airflow required for the safe operation of the equipment should not be affected.
- Mechanical Load—When the equipment is mounted on a rack, it should be guaranteed that it does not cause a hazardous situation due to uneven mechanical loads.
- Circuit Overload—Consideration should be given to the connection of the device to the power supply circuit and the impact that circuit overload may have on the overcurrent protection and power supply wiring. In addressing this issue, due consideration should be given to the rating of the equipment nameplate.
- Reliable Grounding—Rack-mounted equipment should be reliably grounded. Special care should be taken to connect to the power supply and not directly to the branch circuit (e.g. power strip).