KP2HC Specification

Pandora Series

Version: v2.1

Release Date: May 2025

Revision History

Version	Summary	Revision Date	Revised by
V 1.0	Initial release	2024/06/12	Liao Yajian
V 2.1	Add authentication and modify document format	2025/05/26	Liao Yajian

Product Overview

The Kystar Pandora KP1HC is a multimedia player that integrates a sender card and a playback terminal. Compared with traditional synchronous playback solutions, it can reduce the need for computer-based playback terminals and enables convenient control at any time. It features a compact design, robust performance, powerful functionality, and greater load-bearing capacity. Additionally, it supports external signal input and allows quick switching between synchronous input and asynchronous playback. Its high-performance capabilities and extensive functionality make it suitable for applications requiring large-scale display management.

It has broad application prospects in advertising display fields such as mirror screens, light pole screens, and full-color doorhead displays.

Product Certification

CQC, CE, RoHS

If the product has no relevant certification in any country or region, please contact us immediately for confirmation or processing. Otherwise, if any legal risks are caused, the customer shall bear them by himself or our company shall have the right to seek compensation.

Features

- Gigabit network port*2, single network port 65W points, the whole machine load 130W points, the widest 3840, the highest 2000;

- WIFI, Ethernet port, USB flash drive and other communication methods;

- Built-in 8GB (4G available to users), supports USB flash drive expansion;

- Support HDMI 1.3 signal source input, quick switching between synchronous input and asynchronous playback;

- 3.5mm audio output, audio and video synchronous output;

- Supports multiple windows and multiple materials to play on the screen at the same time;

- Supports wireless screen configuration via mobile phone or computer without USB cable;

- Supports optional 3-way relay control, which can remotely control the external power switch;

- Onboard brightness sensor interface, automatically adjusts screen brightness according to ambient brightness;

- Supports Kares cloud platform, cluster hierarchical management and multi-role program release;

- The simple APP allows you to fully control program editing and management, allowing you to enjoy the big screen at your fingertips.

● The new Web PE adopts B/S architecture LAN control software, which is feature-rich and easy to learn and use;

Parameter

Front panel appearance

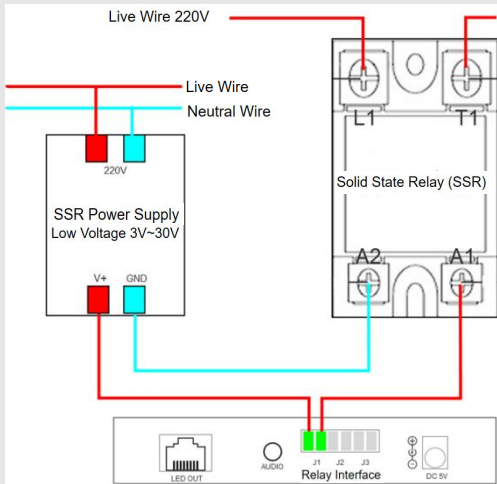| Name	Description
SYS	Operation status indicator The system and app start up normally, and sys is always on; When the player app is abnormal, sys flashes once per second During the system upgrade process, sys flashes quickly, 4 times per second
NET	Connection status indicator The NET light is on when the client is connected, otherwise it is off; When connected to the cloud platform, NET flashes once per second; Upload program, NET flashes quickly, 4 times per second
PWR	Power indicator light , long light indicates normal power supply
RESET	Long press for 5 to 10 seconds and release within 30 minutes to take effect.
HDMI-IN	HDMI 1.3 input interface, external signal
USB	USB2.0, update programs via USB flash drive

4G/5G (optional)	Antenna interface, supports 4G/5G cards of the three major operators
LAN	100M input network port, access to LAN, can be directly connected to PC
WIFI	Wi- Fi antenna interface

Rear panel appearance

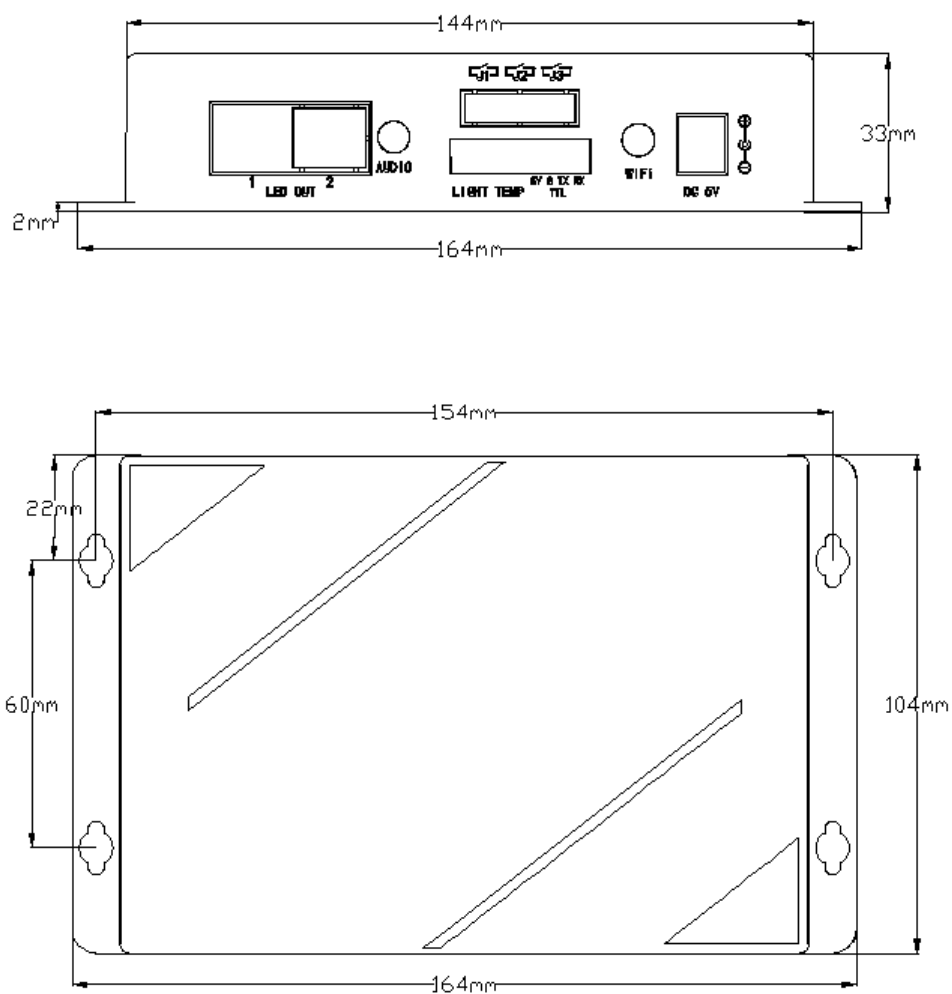| Interface Information		
Type	**QTY**	**Specification**
LED OUT	2	Gigabit output network port, connect to the full range of Kystar receiving cards
AUDIO	1	3.5mm audio output port

J1-J2-J3	1	Relay interface to control external power switch DC: Maximum voltage 30V, maximum current 3A AC: Maximum voltage 250V, maximum current 3A Note: It is recommended to use direct current. It is not recommended to directly control alternating current with a relay. If you need to control alternating current, it is recommended to use the wiring method shown below.
LIGHT	1	AD brightness sensor interface
TEMP	1	AD temperature sensor interface
TTL	1	TTL interface, can be connected to external GPS module
5V DC	1	Provides 5V/2A DC power supply 5.5x2.1x10mm

* Due to hardware upgrades, interface differences will not be notified separately. The actual product will prevail.

Size

Unit: mm

Specification

External interface type	
Gigabit output network port*2	Output signal to receiving card
Audio output port *1	1/8″ (3.5mm) TRS plug output
USB2.0* 1	Storage expansion possible (U disk or SD card, maximum 128G)

100M input network port *1	Access to LAN , cluster control
WIFI antenna*1	WiFi STA+ AP dual mode , can connect to the router, can be used as a hotspot for mobile phones and computers to connect
HDMI-IN*1	HDMI Signal source input
LIGHT	External brightness sensor to control screen brightness according to ambient brightness (L600 module needs to be purchased separately)
TEMP	External temperature sensor to obtain ambient temperature and humidity (W600 module needs to be purchased separately)
Relay	Can be used to control an external power switch (J3 00 module needs to be purchased separately)
4G/5G	Access to WAN (L610 module needs to be purchased separately)
GPS	Precise positioning, precise timing, and multi-screen synchronization (PM650 module needs to be purchased separately)
Performance parameters	
Hardware Performance	1.6GHz, quad-core CPU, 3D GPU 1GB@600MHz DDR3 high-speed memory Support 1080p@60fps hard decoding playback Support 1080p@30fps hardware encoding
Storage Space	Built-in 8GB storage (4G available to users)
Load size	650,000 dots per network port, 1.3 million dots for the whole device, 3840 dots at the widest point and 2000 dots at the highest point
Wi- Fi connection distance	20 meters (unobstructed)
Support multimedia formats	

Video Format	AVI, WMV, MPG, RM/RMVB, VOB, MP4, FLV and other common video formats; Supports multiple videos playing simultaneously
Audio Format	MPEG-1 Layer III, AAC, etc.
Image Format	Support bmp, jpg, png , etc.
Text form	Single-line text, static text, multi-line scrolling text, office, etc.
Clock	Real-time clock, multi-region clock display and management
OSD	Supports 32-bit true color OSD, can be displayed at any position, supports video/graphics mixing, and can overlay graphics on video.

Machine Specifications

Dimensions	164 × 104 × 33mm (L×W×H)
Packing size	332x224x45mm (L×W×H)
Net weight	205g
Gross weight	435g
Supported receiving cards	Kystar full range of receiving cards
Input adapter power	DC 5V/2A power supply
Rated Power	8 W
Operating temperature	-20℃ ~ 70℃
Operating humidity (%)	5% ~ 95%
Protection level	IP20 Please pay attention to waterproofing, do not immerse the product in water , do not drip water into the product, etc.

Note:

1) To ensure the time storage of the control card during normal operation, please make sure that the battery on the control card is normal and not loose.

2) To ensure long-term stable operation of the system, please try to use a standard 5V voltage (2A and above current) power supply.

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Beijing KystarTechnology Co., Ltd.

A professional provider of comprehensive solutions and operation services for ultra-high-definition video display and control.

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