



A4K

Player

Specification V1.1

## Overview

A4K is a new-generation cloud networking player, which supports 4K H265/H264 hardware decoding, 4K VP9 decoding, and 4K@30Hz output. Based on the powerful ColorlightCloud platform, functions such as player monitoring, program creating, program scheduling, program centralized publishing, and multi-level management are supported.

The A4K player supports various networking methods such as WiFi, wired and 4G networking, and can be deployed quickly to achieve intelligent cloud management, including multi-screen, multi-business and cross-regional unified management. It can be configured as WiFi hotspot, and supports managing programs and setting parameters via smartphone, tablet and PC.

With the use of PlayerMaster, you can edit and publish programs to A4K. Arbitrary multi-window layout and playback of various program materials such as videos, pictures, texts, tables, weather and clock are also supported. Program update and management can be achieved via plug and play USB flash drive and wired network. A4K can widely apply to commercial 4K LCD display, such as the screen of chain stores, retail stores and advertisement players.

## Features

### Brand-new breakthroughs

- Professional BS architecture, supporting accessing network via WiFi, LAN or 4G for cloud centralized management
- Multi-level management of cloud server and role-based program publishing
- Strong processing performance, supporting H265/H264 4K high-definition video hardware decoding and playback as well as 10bit video decoding and playback
- Support up to 3840×2160@30Hz output resolution, maximum width: 3840, maximum height: 2160
- 8G storage (4G available), support playback via USB flash drive
- Support stereo audio output

### Safe and reliable

- Adopt industrial components, stable and reliable
- System authorization and data encryption
- Multi-level permission management, with rigorous audit mechanism for program publishing

- Real-time monitoring of playback content and timely feedback on operating status

### Intelligent control, convenient management

- Plug and play content from USB flash drive
- Synchronized playback of multiple screens (GPS synchronization, NTP synchronization)
- Support scheduled commands, LAN-based scheduling and Internet-based scheduling
- Support being configured as WiFi hotspot and being managed via smartphone, Pad and PC

### Convenient program management

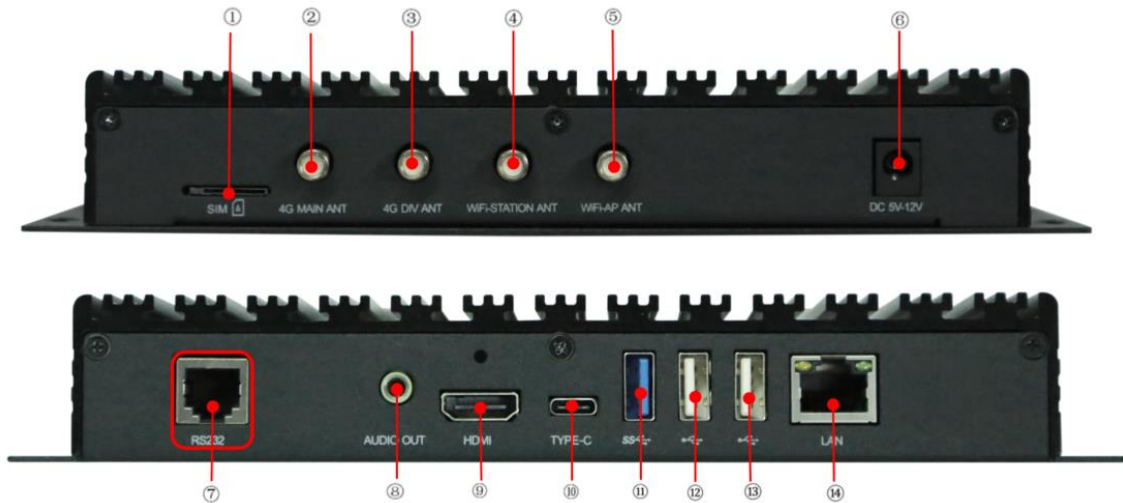
- Use PlayerMaster with comprehensive functions for editing programs, flexible and convenient
- Support overlaying of multiple windows, whose size and location can be freely adjusted
- Rich media materials, such as pictures, videos, texts, clocks, stream media, webpages and weather
- Support playing multiple program pages

## Specification

Basic parameters	
Chip group	Hexa-core processor/ Quad-core GPU/ 2G DDR4 high-speed memory (Dual-core Cortex-A72 + Quad-core Cortex-A53, Up to 1.8GHz) Support 4K HDR video decoding and 1080P video decoding and playback
Main external ports	
USB port	2×USB2.0, 1×USB3.0, connect to the USB flash drive
AUDIO port	Audio output
Type-C port	Set display parameters and transmit programs
HDMI port	Output the HDMI signal to the display HDMI2.0 output, support 4K 30Hz display, support HDCP 1.4/2.2
Sim card slot	Insert a SIM card
LAN port	Gigabit Ethernet port
WiFi	2.4G/5G dual band WiFi, support connecting to wireless network or providing WiFi hotspot
Physical parameters	
Dimensions	215×94×32 mm
Operating voltage	DC 5V-12V/2A
Rated power consumption	15W
Weight	0.57kg (20.11oz)
Storage temperature	-40°C~95°C
Operating temperature	-30°C~65°C
Ambient humidity	0~95%, non-condensing
File format	
Split program window	Support arbitrary splitting and overlapping of windows, and multi-page playback
Video format	Video encoding: H264, H265, VP9, etc. Video file: mp4, mov, ts, etc. Support decoding and playback of one 4K video Support simultaneous decoding and playback of up to 2 HD videos
Audio format	MPEG-1 Layer III, AAC, etc.
Image format	bmp, jpg, png, webp, etc.
Text format	txt, rtf, word, ppt, excel, etc. (*Used in conjunction with PlayerMaster)
Text display	Single-line text, static text, multi-line text, etc.
Split screen	4 video windows, multiple images/texts, scrolling subtitles, LOGO,

	date/time/week Freely split screens, with different areas displaying different contents
OSD	Support 32bit full-color OSD, which can display on any position. Support mixture of videos as well as images and texts. Images and texts can be overlaid on videos, and can achieve transparent, translucent and opaque effects
RTC	Real-time clock display and management
<b>Terminal management and automatic control</b>	
Communication methods	Access the local area network via Gigabit Ethernet port or WiFi
Program update	Use a USB drive for plug and play content or use wireless network
Management device	Intelligent terminals such as PC, Android, iOS
Wireless control	Turn on or off the display, configure system parameters, control program playback, publish programs
Scheduled playback	Play according to the program list
Scheduled power on & off	Support centralized setting via management system
Management software	PlayerMaster

## Hardware



### Port description

No.	Name	Function
1	SIM	Micro-SIM card slot
2	4G MAIN ANT	Connect to 4G antenna (optional)
3	4G DIV ANT	Connect to 4G antenna (optional)
4	WiFi STATION ANT	Connect to WiFi antenna, support 2.4G/5G dual band Support WiFi hotspot
5	WiFi AP ANT	The same as WiFi STATION ANT
6	DC 5V-12V	5V-12V power input
7	RS232	UART port, communicate with external devices
8	AUDIO OUT	3.5mm, HIFI stereo output
9	HDMI	HDMI2.0, output the HDMI signal
10	TYPE-C	Set display parameters and publish programs
11	USB	USB3.0 port, connect to USB camera, USB flash drive
12	USB	USB2.0 port, connect to USB camera, USB flash drive
13	USB	USB2.0 port, connect to USB camera, USB flash drive
14	LAN	Gigabit Ethernet port, access the local area network



## Configuration and Management Software

Name	Type	Description
PlayerMaster	PC Client	Used for local or cloud screen management, as well as program editing and publishing
ColorlightCloud	Web	A web-based management system for content publishing, centralized management and screen monitoring
LED Assistant	Mobile Client	Support Android and iOS, enabling wireless control of players

### Statement

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