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# Product Specification



Product Name: LED Display Control System

Product Model: CRN PCON 200 PRO

Document Version: V1.3

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# 1. Preface

## 1.1 Product Introduction

CRN PCON 200 PRO is a new generation of LED display control system for LED full-color display. It integrates functions of both displaying and sending, enabling program publishing and screen control via various terminals including PC, mobile phone and pad, and supports access to the central control and operation & maintenance system to easily achieve distributed cluster management of display screens.

Featured with safety and stability, user-friendly operation, intelligent control, CRN PCON 200 PRO can be widely used in LED commercial display, radio and television broadcasting, security monitoring, enterprise service, exhibition, smart city and etc.



## 1.2 Product Features

- Support maximum resolution 1920\*1200@60Hz, the maximum loading area of a single device is 2.3 million pixels;
- The widest range and the highest range both can up to 3840;
- 6-way gigabit network port output design enables various screen connection solutions;
- Support HDMI 1.4 IN\*2, HDMI 2.0 OUT\*1;
- Support Wireless Screen Share Function via mobile phone, MAC system

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or Window system;

- Android 9.0 system, built-in Android applications;
- Support mobile terminal control function, enabling simple operation on mobile phone;
- Support contents display via USB flash drive connection;
- Support 3.5mm audio port output;
- Support one-button-restore-function of factory setting;
- Support Wi-Fi connection;
- Support LED display OSD.

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## 2. Product Functions & Characteristics

### 2.1 ARM Processor Performance

- CPU: 2 x Cortex-A72 + 4 x Cortex-A53, 2.0GHz
- 4G RAM, 32G flash memory
- Mainstream video formats: MPEG1, MPEG2, MPEG4, H.264, WMV, MKV, TS, flv and etc.; Audio formats: MP3 and etc.; Image formats: JPG, JPEG, BMP, PNG, GIF and etc.
- System: Android 9.0

### 2.2 Major Functions

- (1) Support maximum resolution 1920\*1200@60Hz, the maximum loading area of a single device is 2.3 million pixels;
- (2) Support HDMI 1.4 IN\*2, HDMI 2.0 OUT\*1;
- (3) The widest range and the highest range both can up to 3840;
- (4) Support small-screen-control-large-screen function, which enables mobile terminals to realize touchpad operation and remote control;
- (5) Support screen settings including screen brightness, contrast, color temperature and current gain;
- (6) Support screen parameter setting and storage;
- (7) Support multi-unit cascade output, realizing splicing display of ultra-wide screen;
- (8) Support audio output;
- (9) Support access to the central control system that meets the RS232 protocol.

### 3.Product Appearance Size & Ports



Diagram 1 Front Panel

No.	Name	Function
1	Power button	<p>Power-off state: short press to turn on</p> <p>Standby state: short press to wake up the screen</p> <p>Power-on state: short press to start standby mode (rest screen)</p> <p>Power-on state: long press for 3-5 seconds to turn down</p>

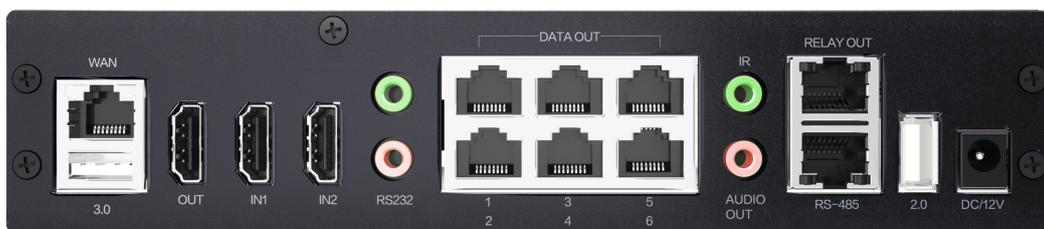
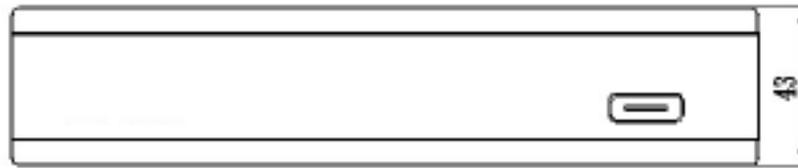
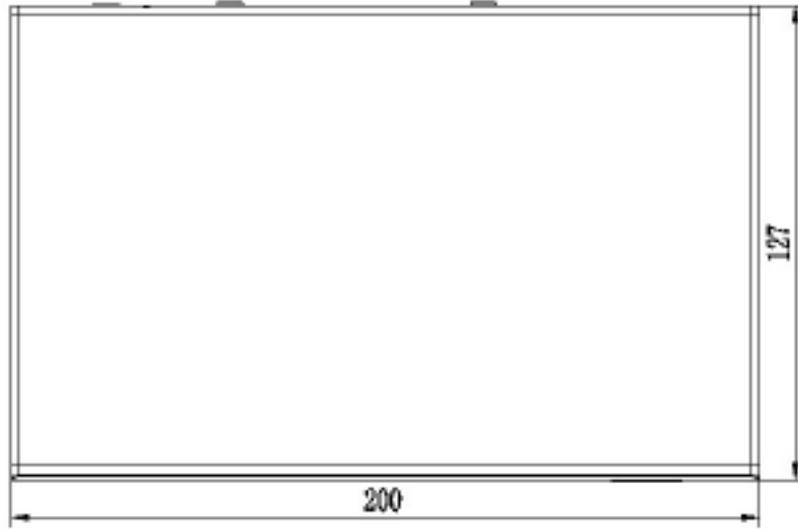


Diagram 2 Rear Panel

<b>Input Port</b>		
Type	Quantity	Description
HDMI IN	2	HDMI 1.4
<b>Output Port</b>		
Type	Quantity	Description
HDMI OUT	1	HDMI 2.0 output (Android screen output)
Network port	6	6-way Gigabit Ethernet port output, using standard RJ45 interface  Single network port loading area: 650,000 pixel dots
<b>Control Port</b>		
Type	Quantity	Description
IR	1	Use standard 3.5mm headphone jack to realize long-distance IR signal transmission through audio male-to-female extension cable
AUDIO OUT	1	3.5mm audio output port
WAN	1	WAN port, can be connected to the host computer or LAN/public network to conduct program publishing and screen control
RELAY OUT	1	Extended port, used for ON/OFF control, and etc.
RS-485	1	Protocol port, used for brightness sensor connection
RS232	2	Can be connected to the central control system, and used for multi-units cascade application
USB 3.0	1	Used for USB flash drive connection, support reading and playing multimedia files and firmware upgrade
USB 2.0	1	Used for USB flash drive connection, support reading and playing multimedia files and firmware upgrade
<b>Power Input Port</b>		
DC/12V	1	DC/12V Power input port



Appearance Dimension Diagram

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## 4. Product Specifications

Electrical Parameter	
Input Power	DC 12V
Rated Power	30W
Environmental Parameter	
Operating Temperature	-10°C~60°C
Operating Humidity	10%~90% no condensation
Storage Temperature	-20°C~70°C
Storage Humidity	10%~90% no condensation
Product Parameter	
Dimensions	200*127*43mm
Gross Weight	0.95kg
Net Weight	0.8kg
Packaging Information	
Host Packaging Carton (Length*Width*Height)	Carton: 260*240*75mm 1*Host 1*Power adapter (1 US Standard, 1 EU Standard and 1 Australian Standard plug) 1*Quick Guide
Accessories Box	Carton: 270*175*50mm 1*Remote control 1*IR extension cable (3m) 1*cascading cable 1*HDMI cable (1.5m)

**Note:** This product will not come with a WiFi module. The application scenarios with Wifi connection in this manual shall be achieved with Wifi module provided by the client.