Product datasheet

Product range：X-Poster 5

Change history

Version number	Pages	Revised Content Description	Date of revision	Revision Personnel
V1.0	-	First edition enacted	2025.5.29	黄瑜萍

Directory

1.0 Scope of application

This specification is applicable to the X-Poster 5 series 600mm*2025mm indoor folding poster screen, and the "products" mentioned in the follow-up are all Fold poster screen products without special instructions, if there are special requirements, they can be customized accordingly according to the actual situation.

2.0 Product Description

2.1 Product Introduction

X-Poster 5 indoor series is an AIoT intelligent ecological LED commercial display poster screen integrating the world's leading LED small pitch technology and intelligent Android system, with high-definition display screen, high brightness, high refresh, foldable, double-sided display and other characteristics, widely used in airport stations, shopping malls, supermarkets, retail chains and other commercial display fields.

2.2 Features

a) The color saturation is more than 110%, the picture quality is delicate, and the light is low and gray.

b) Adopts Android 11.0 system with extremely strong expandability.

c) Support USB, LAN APP, remote control , support Ethernet and other Internet access methods.

d) Supports synchronous and asynchronous dual-mode switching playback to meet more advertising and event application scenarios.

e) It supports intelligent cluster management and control, which can remotely and centrally manage audit and playback control, and is a powerful tool for precision marketing, so as to multiply the value of advertising

f) It supports single-channel stereo audio output, audio and video integration, and brings a better audience experience.

g) Support remote intelligent monitoring, remote and timing screen on/off.

h) Support one-click reset of configuration parameters and screen files.

i) It supports folding down, does not take up space, and is more convenient for transportation.

j) Support double-sided display, both sides can be seen.
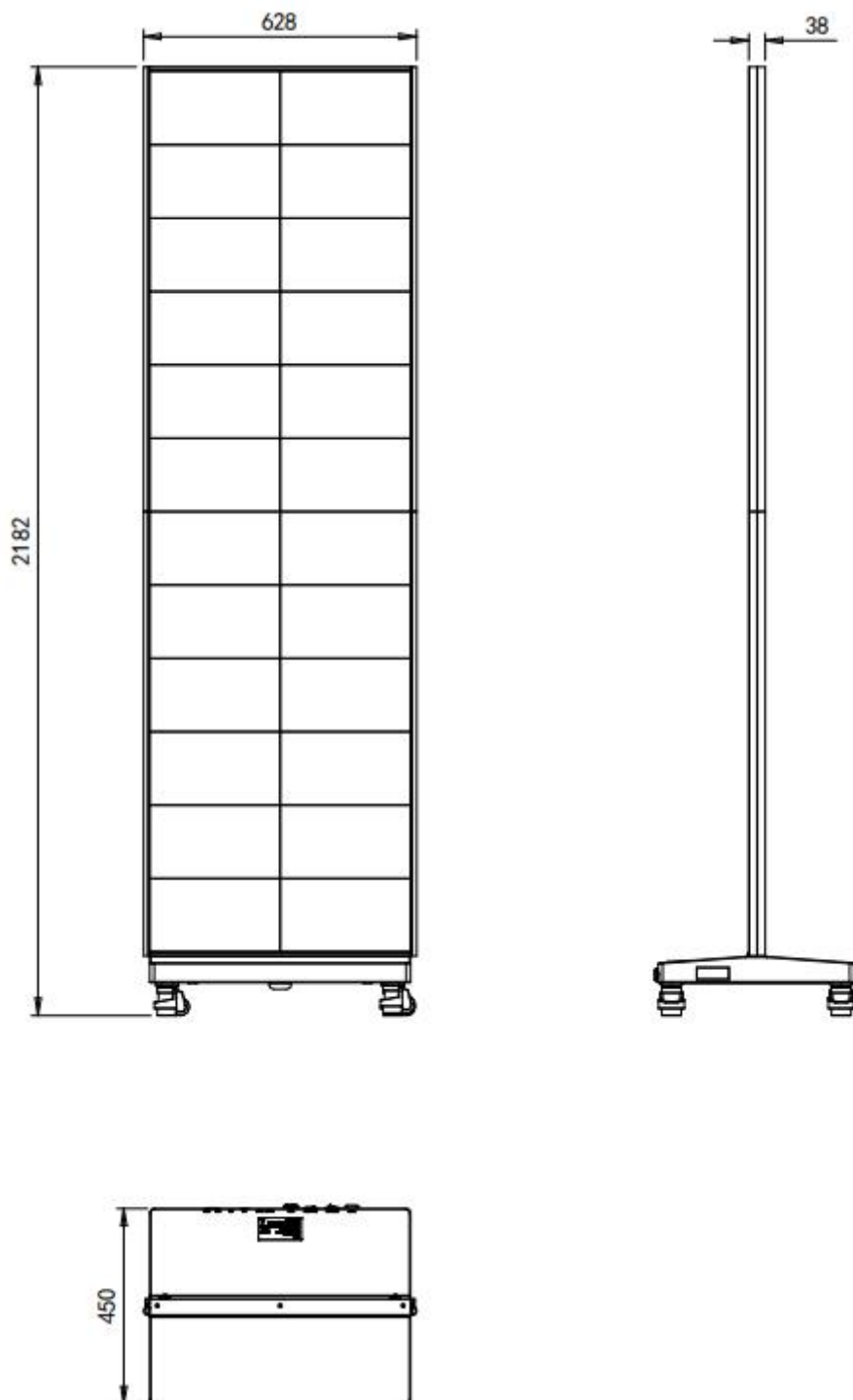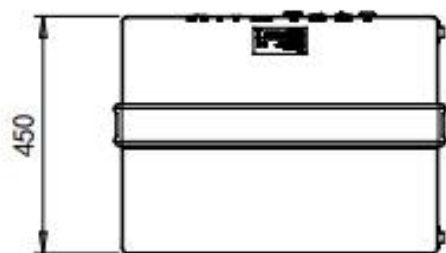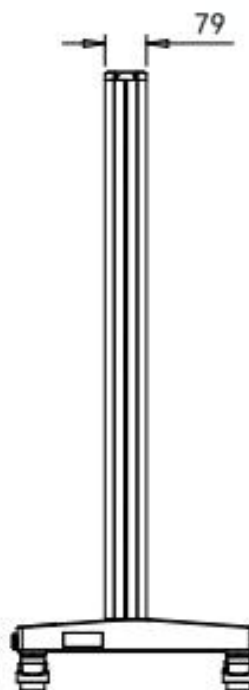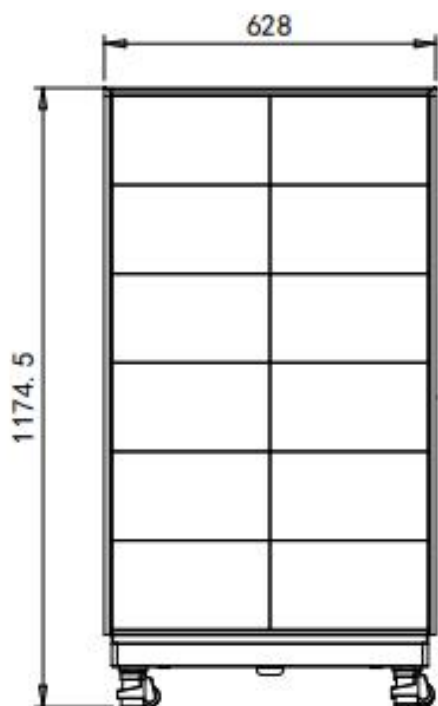
2.3 Product images

Seat mounting

2.4 Product size structure drawing

◆　Unfold the dimensions：

628*2182*450mm

◆ Folded size：

628*1174.5*450mm

Note: 1. The design and specifications will be upgraded and updated from time to time and will be subject to change without notice.

2. The dimension values (mm) shown in the chart are approximate.

3.0 Technical parameters

3.1 Hardware parameters

Project	Parameter		
Model	X151P5S-83UL	X181P5S-83UL	X251P5S-83UL
Module	Pixel pitch (mm)	1.5625	1.875	2.5
	Pixel composition	SMD1212	SMD1515	SMD2020
	Pixel density (dots/㎡)	409600	284444	160000
	Module size (mm)	300*168.75	300*168.75	300*337.5
Screen	Module composition	2x12	2x12	2x6
	Screen resolution	Single384*1296 Double384*648	Single 320*1080 Double 320*540	Single 240*810 Double 240*405
	Exterior dimensions (mm)	unfold: 628*2182*450mm, fold: 628*1174.5*450mm		
	Display dimensions (mm)	Single 600*2025, Double 600*1012.5,		
	Cabinet material	Die-cast magnesium alloys		
	Installation	Seat mount (standard)		
	Maintenance methods	Maintenance before the module and after the system is stuck		

3.4 Optical parameters

project	parameter
Grayscale (Bit)	14
White balance brightness (nit)	0~600
contrast	4000：1
Color gamut	≥110% NTSC
Color coordinates	standard (0.2953, 0.3047), adjustable
Temperature (K)	standard8000, 3200~12000adjustable
Horizontal/Vertical Viewing Angle	160°/140°
Chromaticity uniformity	≤0.005
Brightness uniformity	≥95%

Single-point brightness correction	support
Single-point chromaticity correction	support

3.3 Electrical parameters

project	parameter		
Model	X151P5S-83UL	X181P5S-83UL	X251P5S-83UL
Average power consumption of screen (W/screen)	200	230	126
Maximum power consumption of the screen (W/screen).	600	690	370
Module power supply requirements	DC4.2V		
Screen power supply requirements	AC100~240V，50/60Hz		

3.2 System parameters

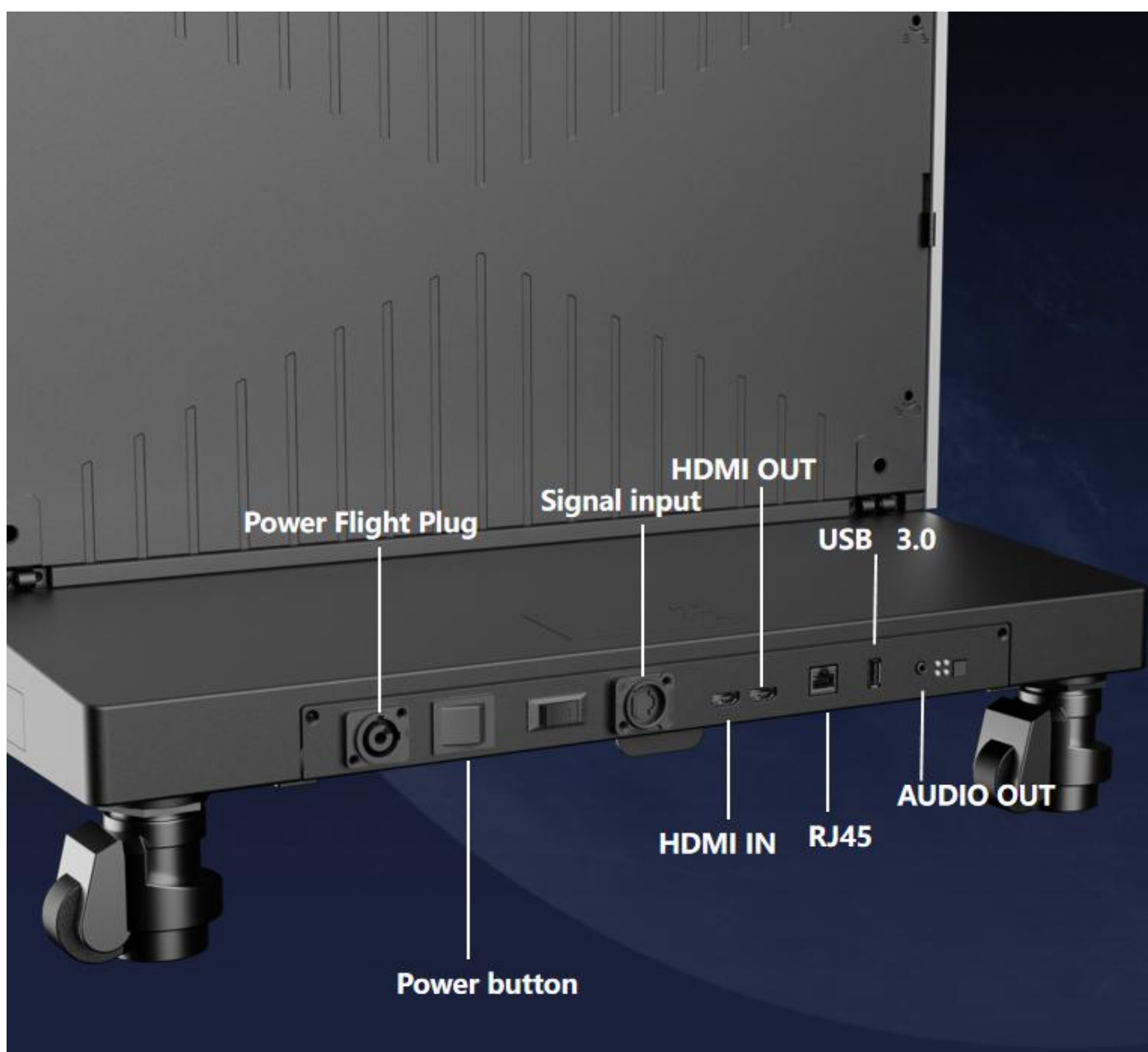| project	parameter
System version	Android 13.0
Running memory/storage memory	4G / 32G
Refresh rate (Hz).	3840
Drive mode	PWM constant current drive
Optional	4G module

3.5 Packaging parameters

project	parameter
Net weight of the screen （Kg）	30
Moving base weight（Kg）	10

Note: The above packaging parameters are the test parameters of the sample, and the parameters are for reference only because the specific batch configuration may be different.

3.6 Environmental requirements

Phone：400-6575-168   mailbox：marketing@cltchina.cn   URL：www.cltchina.cn

project	parameter
Operating Temperature Range (°C)	0~40
Operating Humidity Range (RH)	10%~65% No condensation
Storage Temperature Range (°C)	-10~50
Storage Humidity Range (RH)	10%~65% No condensation
Waterproof and dustproof rating (front/rear)	IP30/IP30

4.0 Product interfaces

legend	type	illustrate
	Power Flight Plug	Power input port
	Power button	Power control switch
	Signal input	It is used when multiple units are cascaded
	HDMI IN	HDMI 1.4 input interface, input HDMI video source in synchronous mode.
	HDMI OUT	HDMI 1.4 output interface, supporting HDMI Loop.
	RJ45	Gigabit Ethernet port, directly connect the host computer to the device, or connect the device to the LAN or public network for program release and display screen control.
	USB 3.0	USB3.0 (Type A) interface, support U disk program import and playback and U disk firmware upgrade. The file system supports Ext4 and FAT32, but exFAT and FAT16 are not supported
	AUDIO OUT	Audio output interface.

5.0 Product nameplate

Note: For reference only.

6.0 Packaging solutions

Unless the customer specifies its packaging information, it is necessary to provide customers with standard shipping containers, and the specific transportation method will change slightly due to different regions, and the actual packaging method shall prevail. The packaging method and label information are as follows.

6.1 **Packaging scheme for the whole machine**

Flight case packing

7.0 Precautions for product use

project	parameter
Operating temperature range	Ambient temperature: 0°C~40°C; Other temperature ranges require additional temperature control equipment to ensure that the temperature is within the allowable range; The temperature of the lamp surface in the working process ≤ 60°C, and the temperature exceeds the standard, and the temperature control

	equipment needs to be added;
Storage temperature range	Ambient temperature: -10°C~50°C; Other temperature ranges require additional temperature control equipment to ensure that the temperature is within the allowable range.
Operating humidity range	Ambient humidity: 10~65%RH, humidity exceeds the standard and needs to be dehumidified before normal use.
Storage humidity range	Ambient humidity: 10~65% RH, humidity over 80% RH needs to be dehumidified.
Expired storage disposal	The product has not been stored for more than one month or the power has been cut off for more than 48 hours after unpacking, and it needs to be aged for 6 hours before it can be used normally. The aging method is: full brightness set 10% 1hrs, full brightness set 30% 1hrs, full brightness set 60% 2hrs, full brightness set 80% 1hrs, full brightness set 100% 1hrs (brightness gradually increased aging).
dustproof	IP3X dust resistance rating on the back. It should not be exposed to dusty environments, such as outdoor and indoor high-dust workshops with a lot of dust, and special protection is required for the display box.
Anti-corrosive gases	Cabinets should not be exposed to corrosive gases. In environments where the air contains salt or acid gases, corrosive gases can cause corrosion of electronic components, crystalline leakage, and other phenomena.
Protection against electromagnetic	The module should not be placed in an environment where electromagnetic radiation and radio frequency radiation exceed

radiation	the electric field strength of 5V/m interference sources.
Anti-static	Prevent the damage of static electricity to electronic devices in humid environment, and avoid the damage of leakage to the human body
shockproof	The display should be mounted on a sturdy and reliable mounting structure that is free from strong vibrations;
Keep away from water sources	The waterproof grade on the back is IPX0 and cannot be directly naked, and the water conductivity can short-circuit the circuit, resulting in damage to the circuit components, so it needs to be kept away from the water source;
personal injury	The angle and height of the module installation should be appropriate, and the sharp edges and corners should be packed to prevent the damage of the tough outer shell to the human body;
Safety requirements	It is necessary to ensure the stability of the power supply system, maintain the normal level of frequency, voltage and current harmonics, and when a plurality of LED display boxes are spliced, the metal shell should be grounded together with the metal frame installed on the LED display, and the grounding resistance of the overall system of the display screen should not be greater than 1Ω, and the leakage current to the ground shall not exceed 5% of the input current. The electrical strength shall meet the requirements of SJ/T 1114 1-2017 General Specification for Light-Emitting Diode (LED) Displays 5.7.5;
other	The product is an indoor standard product, and due to its process particularity, it should be avoided as much as possible to avoid damage to the equipment caused by human touch