G2.5 Die-cast Aluminum Cabinet -Indoor Interactive

LED Floor Specification



1.1 Module composition

Pixel composition	SMD LED 1R, 1G, 1B
Pixel pitch (W*H)mm	2.5*2.5
Module resolution (W*H)	100*100
Module size (W*H*D)mm	250*250*18
Module weight (KG)	0.75

1.2 Unit composition

Cabinet composition (W*H)	2*2
Cabinet resolution (W*H)	200*200
Cabinet size (W*H*D)mm	500*500*78
Cabinet area (m ²)	0.25
Pixel density (dot/m ²)	160000
Protection level	Indoor(Front IP54, Back IP43)
Cabinet flatness (mm)	1
White balance brightness (r	nits) ≥600
Color temperature (K)	6000-9300 adjustable
Horizontal viewing angle (°) >120
Luminous point center dista	nce deviation <3%

1.3 Cabinet and outer packaging

Cabinet weight (KG/cabinet ; KG/m²)	11;44
Floor support weight (KG)	1
Total weight(KG/Cabinet+carton)	8 in 1 carton, 120KG
Outer packing size (L*W*H)	1040*660*670mm (L*W*H)

1.4 Electrical parameters

Power consumption (A/unit module)	DC 6∽7
Peak power consumption (W/m²)	800
Average power consumption (W/m ²)	300
Power requirements	AC220V

1.5 Processing performance

Pixel sharing technology	YES
Drive mode	Constant current drive
Frame rate (Hz)	50&60
Refresh rate(Hz)@60Hz	≥3840/≥7680

1.6 Screen pa	arameters	
Lifespan(hrs)	100,000	
Working temperature(°C	.)	-20 — 55
Storage temperature (°C	2)	-30 — 60
Working humidity (RH) n	o condensation	10 - 90%
Storage humidity (RH) no	o condensation	10 - 95%
Screen thickness (mm)	Module+cabi support: 150	net: 78 screen+floor 0∽170 adjustable or customized
Defective ratio		≤4/100000
Unit module splicing gap	(mm) Uniform	nity and ≤2mm
Best view distance (m)		3-15m
View angle (°)	F	lorizontal>120
Surface flatness(mm)	Ma	ax tolerance≤1
Screen surface color		Uniformity 95%
Uniformity	The brightness uniform	nity of the screen reaches 95%

1.7 Load bearing and friction index

Loading bearing capacity

0.8 tons/m²

2.1 Computer configur	ation requirements
System	Windows 7 64bit、Windows 10 64bit、Windows 10 64bit.
CPU	Intel Core i7 6200U
CPU frequency	2.3GHz
Maximum turbo frequency	2800MHz
Number of cores/threads	Dual Core/Four Threads
L3 cache	3MB
Storage	4GB
Memory type	DDR3L(Low voltage version)1600MHz
Number of slots	2Xso-DIMM
Maximum Storage	16GB
Hard drive description	5400 rpm
Screen technology	> 1366*768
Graphics card type	Performance level discrete graphics card
Memory capacity	2GB
Wired network card	1000Mbps Ethernet card
Data interface	3Xusb3.0
Video interface	VGA、HDMI

- ► The whole series of products have passed the professional organization 3C, RoHS, CE, FCC quality certification ;
- ► The whole series of products have passed the professional organization's waterproof testing, fire testi ng, load-bearing testing, radiation protection testing, heating testing, friction coefficient testing, single-point force testing, anti-UV ultraviolet testing, high and low temperature testing, blue light testing, salt spray testing, on-site pressure testing.





500*500MM Die-cast Aluminum Cabinet





Front view

Side(A/B)

Die-cast Aluminum Cabinet



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250*250MM Module





Module front view

Module rear view

Rear view

4.1 Product introduction

X-HD-2K is a basic independent interactive master; it has a load capacity of up to 2.6 million pixels; it has powerful processi capabilities, ultra-stable performance and ultra-high cost performance.

4.2 Features

- 1 x DVI and 1 x HDMI video signal input
- 1 x AUDIO input, synchronously transmitted through the network cable
- 6 x Gigabit Ethernet port output, support two up and down, left and right arbitrary splicing
- 1 x USB interface communication, can cascade multiple sending cards on the same PC to control
- Support network port loop backup, dual master backup
- Supports multiple preset resolutions: 1024x768, 1280x1024, 1366x768, 1600x1200, 1920x1080, 2048x1152, 2560x960, And supports resolution customization
- Compatible with 30HZ, 50HZ, 60HZ, 120HZ and other frame rate input
- Support ST_EXT expansion board for cascade brightness control and automatic brightness adjustment
- · Support the PC software to monitor the running parameters and status of the sending card
- Support configuration parameter readback
- Support gigabit network bit error rate detection

4.3 Application

It can be widely used in conventional LED display screen and LED interactive floor screen field. It has significant effects in application scenarios such as education and training, exhibitions, museums, planning halls, science and technology museums, cultural and tourist attractions, high-speed rail platforms, municipal squares, corporate exhibition halls, hotel stages, bars, TV live broadcasts, outdoor advertising, and commercial complex projects.

4.4 Basic F	Parameters		
Load Canacity	Single port	65W pixels	Not fully loaded
	Whole controller	260W pixels	When a single port is fully loaded with 650,000 pixels, it is limited to 4 ports
Lood Pongo	Width	128— 4096 pixels	
Luau Nange	Height	64— 4096 pixels	
Offset Range	Width	0— 4095 pixels	
Cheer Hange	Height	0— 4095 pixels	

4.5 Hardware Introduction



No	Name	Description		
1	Switch	Main controller power switch		
2	Display&Button	Display: brightness value, Button to add or subtract brightness value		
3	Power indicator, Control interface indicator, Expansion interfaceindi cator	Display power status、 Control interface status、 Expansion interface status		
4	Output network port indicator	Display the output network port status		
5	Input signal button	Switch signal input port		
		. Short press the button, the INC indicator will flash quickly, the sending card will always check the offset of the sub- control, the image size of the sub-control, and the offset of the receiving card; when the INC indicator is flashing quickly, press the button, the INC indicator will be off Immediately release the button, the INC indicator no longer flashes rapidly, and the inspection function is turned off.		
6	Extended function button	②. Press and hold the button for more than 3S and then release, the INC indicator light flashes slowly, the sending card starts to inspect, and the inspection contents are all inspection contents configured by the host computer (sub-control configuration, receiving card brightness, receiving card network port offset, white balance, gamma, receiving card parameters). When the inspection is over, the INC indicator turns off.		
		③. Press and hold the button for more than 10s and then release, the INC indicator is always on, the sending card solidifies the inspection content to the designated receiving card and sub-controller, and the solidified content is the inspection content configured by thehost computer. During the curing process, Do not perform other operations. When curing is complete, the INC indicator goes out.		
		 ④. The above operations are performed when the USB interface is disconnected. ⑤. AC110V-240V/50-60HZ 		



No	Name	Description	No	Name	Description	
	Audio	3.5mm Audio input interface			P1-P6 are output network port 1- 6 The maximum load of a single network	
3	DVI	DVI Video signal input interface	4	Gigabit Ethernet port	ort is 650,000 pixels Support loop backup between network	
	HDMI	HDMI Video signal input interface			ports Only supports P1 output network port audio transmission	
No	Name	Description				
			No	Name	Description	
2	USB (B type)	Type B USB socket,connected to PC software communication		IN	Serial communication input	
	LAN	Induction signal return	1	OUT	Serial communication output	
No	Name	Description		3D	3D transceiver communication interface (reserved)	
5	AC power connector	AC-100-240V-50/60HZ AC power interface		SENSOR	Light sensor communication interface	

4.6 Indicator Light Description

Output						
	Flashes evenly		Gigabit network signal communication is normal			
P1-P6	P1-P6 Always bright		0	Gigabit network signal is r	ot working	
		Input				
	Always bri	ght		DVI signal input is normal,	DVI signal is no	ot used
DVI	Slow flash			DVI signal input is normal, DVI signal is being used		
	Always off		N	No DVI signal input		
	Button		s	Select DVI input		
	Always brig	ght	F	IDMI signal input is norma	al, HDMI signal i	is not used
	Slow flash		F	IDMI signal input is norma	al, HDMI signal i	is being used
	Always off		A	Always off No HDMI signal input		
	Button		Select HDMI input			
		Control				
	Always bright The USB ca		abl	able is connected normally		
USB	Always off USB cablen		ot connected			
LAN	Slow flash	When using	<u>م</u>	The sensor signal return connection is normal	When not using	Communication signal is no rmal
	Always off	function		The sensor signal return not connected	function	Communication signal is abnormal
		Expand	1			
30	Slow fla	sh	3D signal transceiver connection is normal			
	Always off		3D signal transceiver not connected			
SENSOR	Slow flash		Light sensor connection is normal			
OLNOOK	Always off		Light sensor not connected			
IN	Slow flash		Serial input connection is normal			
	Always off		s	Serial input not connected		
OUT	Slow fla	sh	Se	Serial output connection is normal		
	Always off		s	Serial output not connected		

4.7 Dimensions



4.8 Specifications

Electrical parameters	Input voltage	AC-100-240V-50/60HZ	
	Rated power	16W	
Working environment	Working temperature	-20°C - 70°C	
	Working humidity	10%RH-90%RH without coagulation	
Size	483mmX250mmX65.5mm (L x W x H)		
Net weight	3.1KG		

Interactive Controller series X-HD-4K

Interactive Controller

5.1

Product Introduction

X-HD-4K has a variety of video signal receiving capabilities, ultra-high-definition full 4K×2K @60Hz image processing capabilities and sendi capabilities; the processed video can be sent to the LED display through the network port and fiber port; and It also has powerful processing capabilities, effectively improving the load utilization rate, powerful processing capabilities, ultra-stable performance and ultra-high cost performance.

5.2 Features

- Rich input interface: 1x DP1.2 input; 1x HDMI2.0 input; 1 x AUDIO audio input
- Various types of output interfaces: 20 x Gigabit Ethernet port output; 4 x optical fiber bidirectional duplex transmission
- Various communication control methods: 1 x USB interface; 1 x serial port interface; 1 x 100M network interface
- Support network port loop backup, dual master backup
- Supports multiple preset resolutions; and supports resolution customization
- Compatible with 30HZ, 50HZ, 60HZ, 120HZ and other frame rate input
- Support the host computer software to monitor the running parameters and status of the sending card
- Support configuration parameter readback
- Support gigabit network bit error rate detection

5.3 Application

The powerful video processing and transmission capabilities of X-HD-4K can be widely used in education and training, exhibitions, museums, planning halls, science and technology museums, cultural and tourist attractions, high-speed rail platforms, municipal squares, corporate exhibition halls, hotel stages, bars, TV live broadcasts, outdoor advertising, commercial complex projects, and other application scenarios have significant effects.

5.4 Basic Parameters

Load Capacity	Single port	65W pixels	Not fully loaded	
	Whole controller	1040 W pixels	Each port is limited to 16 ports with aload of 65W	
Load Range	Single port	Width	128— 4096 pixels	
		Height	64— 4096 pixels	
	Whole controller	Width	128— 7680 pixels	
		Height	64— 7680 pixels	
Offset Range	Width	0-7679 pixels		
	Height	0-7679 pixels		

Front Panel



No.	Name	Description	
1	Switch	Main controller power switch	
2	LCD	Used to display the current state of the device and set menu item parameters	
3	Knob	In the main interface, press the knob to enter the menu operation interface. When the menu operation interface, rotate the knob to select the menu, press the knob to select the current menu orenter the sub menu	
4	Back button	Exit the current menu or action	



Back Panel

		Input In	terface				
Interface	Quantity	Description					
AUDIO	1	3.5mm Audio input interface					
DP	1	Support resolution 3840x2160 @ 60Hz, backward compatible; graphics card custom maximum width 7680,height maximum 7680.					
HDMI	1	Support resolution 3840×2160 @ 60Hz, backward compatible; graphics card custom maximum width 7680, height maximum 7680.					
	Output Interface						
Interface	Quantity	Description					
Network port	20	20 x Gigabit Ethernet port output,with a load of up to 10.4 million pixels. (Note: 16 ports are used foreach loading time limit of 650,000 pixels, and the remaining ports are used as backup. When all 20 ports are used,each port can only carry 520,000 pixels) The maximum load of a single-channel network port is: 650,000 pixels when the input source bit is 8bit.					
Fiber	4	10G fiber interface, When used as output terminals:OPT1, OPT2 are main transmission; OPT3, OPT4 are standby outputs; When used as a receiver: OPT1, OPT2 are mainreceivers; OPT3, OPT4 are standby receivers;					
	1	Control	Interface				
Interface	Quantity	Description					
USB (square))	1	Connect to PC					
RS232	1	1 x DB9 female socket interface is connected to thecentral control device.					
	1	Normal screen use	100M Ethernet communication interface to realize local area network communication				
LAN		Interactive screen use	Sensing signal backhaul communication				

Extension Ports				
Interface	Quantity	Description		
SD	1	Connect the SD card to store the device parameters, and the device can be read back from the SD card without debugging		
3D	1	Connect 3D transmitter; (reserved interface, functionneeds to becustomized)		
SENSOR	1	Connect the light sensor to realize automatic brightness adjustment.		
Power Supply Interface				
Interface	Quantity	Description		
Power interface	1	AC-100-240V-50/60HZ AC power interface		

5.6 Dimensions





5.7 Specifications

	Input voltage	AC-100-240V-50/60HZ	
Electrical parameters	Rated power	70W	
Working environment	Operating temperature	-20°C - 70°C	
	Working humidity	10%RH-90%RH without coagulation	
Size	487mmX365mmX89	mm ((L x W x H)	
Net weight	6.2KG		
Packaging Information	Accessories	1xDP、1 xHDMI、1xUSB、1 xPower supply、 1x Certificate	
	Outer box	565×445×185mm	



Maintenance tools



Outer Packing Appearance (mm)



Carton size : 1040x660x670mm



Diagrammatic Sketch





Dimensional Drawings