Horion

Education Interactive Display Specification

Product Categories：Interactive flat panel

Product Model：86K6A

Date：2023.03

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1. Product characteristics

1.1 System

● Equipped with Android 11.0 Smart OS and unique UI design;

● Built-in 4 core CPU, 4GB internal cache + 32GB internal storage, for faster operating speed;

● Free switch between Android and Windows, front public USB can be identified by dual system.

1.2 Exterior and smart touch

● Gun-color business appearance, four-corner arc design, safe and reliable;

● Narrow frame design, clear and broad vision without occlusion;

● Front interface Type-c *1, USB * 2, HDMI * 1, Touch USB * 1, easy to access;

● High-precision 20-point infrared touch supports 1.6mm writing independently and 6-people 2.8mm writing simultaneously with accurate identification and high sensitivity;

● The front button includes power on & off, home page, return, setting, volume, the operation is more convenient;

● With double LAN ports, Internet connection of Android system, OPS and external PC at the same time.

1.3 Display and writing

● Adopt 3.2mm tempered glass, Mohs hardness level 7, normal writing won't leave scratches;

● The distance between the toughened glass and the screen is close to 0, effectively preventing light reflection for better writing experience;

● Support intelligent eye protection function to protect the health of the eyes of teachers and students;

● Support single-point and multi-point writing, and wiping by the back of the hand.

1.4 Application module

● 2.4G/5.8G dual-band network card supports using wireless Internet and sharing WiFi hotspot simultaneously;

● Support wireless connect to Bluetooth devices such as mobile phones, stereos and printing devices to transmit data.

1.5 Video display

● Dedicated 4K video decoding, support AI image enhancement technology with high efficiency AI processing ability;

● Customized startup picture and change the boot animation for the special requirements;

● Media player supports can recognize the format of audio, video and picture automatically.

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1.6 Educational application

● Local teaching tools can be used without logging in, and annotation, timer and other tools is compatible for other sources;

● Video and picture files can be inserted into the software, and the files can move, zoom, copy by following the page;

● Provide four kinds of common lattice insertion to meet the needs of daily teaching；

● Support straight line, dotted line, dotted line, rectangle, circle and other basic image graphics drawing, also support common geometry drawing；

● Search within the whiteboard and screenshots can be inserted into the whiteboard;

● Built-in calculator, timer, voter, calendar and other basic teaching tools；

● Supports screen recording under any source, and files are saved to Android local folder；

● Teachers can use the password to enter the setting page to change settings to avoid students modifying the settings；

● Built-in screen mirror software, supports teachers to control the blackboard through the mobile phone or computer anywhere in the classroom, and share common format documents and audio-video files；

● Intelligent recognition of graphics, handwriting recognition of Chinese and English.

2. **Main Specification Parameters**

2.1 Specification overview

Certificated Model	86K6A
Display	
Size	85.6"
Backlight type	D-LED
Resolution	3840*2160（UHD）
Brightness	400cd/m²（classical）
Contrast ratio	1200:1
Response time	8ms
Pixel pitch	0.4935mm(H)*0.4935mm(V)
Refreshing frequency	60Hz
Viewing angle	178°(H) / 178°(V)
Color gamut (NTSC)	72%
View area	1895.04(H)x1065.96(V)
Display colors	1.07G(8bit+FRC)

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Life time	30,000 hrs
System	
Operation system	Android 11.0
CPU Architecture	CA55
CPU working Frequency	1.2~1.53GHz
CPU Core	Quad Core
GPU	G52 2EE MC1@550MHz
RAM	4GB DDR4
ROM	32GB Standard
Power	
Voltage	100 V ~ 240 V/AC, 50/60 Hz
Power consumption without OPS	≤380W
OPS Power	18V(DC)/5A
Power consumption (standby)	<0.5W
Power (AC) input	*1
Other Parameters	
Audio Output Power	15W * 2
WiFi Band	2.4GHz/5GHz
WiFi Standard	802.11a/b/g/n/ac
Bluetooth	2.1+EDR/4.2/5.1
Input & output interface	
HDMI IN	*2
DP IN	*1
LAN	*2
USB	*2
Touch-USB	*3
MIC-IN	*1

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S/PDIF OUT	*1
Audio-OUT	*1
Remote control port	
RS232	*1
Front Interface	
Type-c	*1
USB 3.0	*2
Touch USB	*1
HDMI IN	*1
Environmental factor	
Working Temperature	0℃ ~ 40℃
Storage Temperature	-10℃ ~ 60℃
Working Humidity	20% ~ 80%
Storage Humidity	10% ~ 80%
The longest service time(Hour*Day)	18Hours*7days
Structure	
Net Weight	63.2±1.5kg
Gross Weight	75.5±1.5kg
Product Size（W*D*H）	1961.8×87.7×1169.9mm
Package Size（W*D*H）	2095×185×1265mm
Frame Material	Aluminum/Sheet Metal
Frame Color	Gray
Accessories	
Power Cable	*1
Writing pen	*2
Certificate of quality	*1
User Manual	*1

Warranty card	*1
Wall mount	*1

3. Touch Frame Specifications

3.1 Product overview

High-precision 20-point infrared touch frame supports 1.6mm writing independently and 6-people 2.8mm writing simultaneously with accurate identification and high sensitivity.
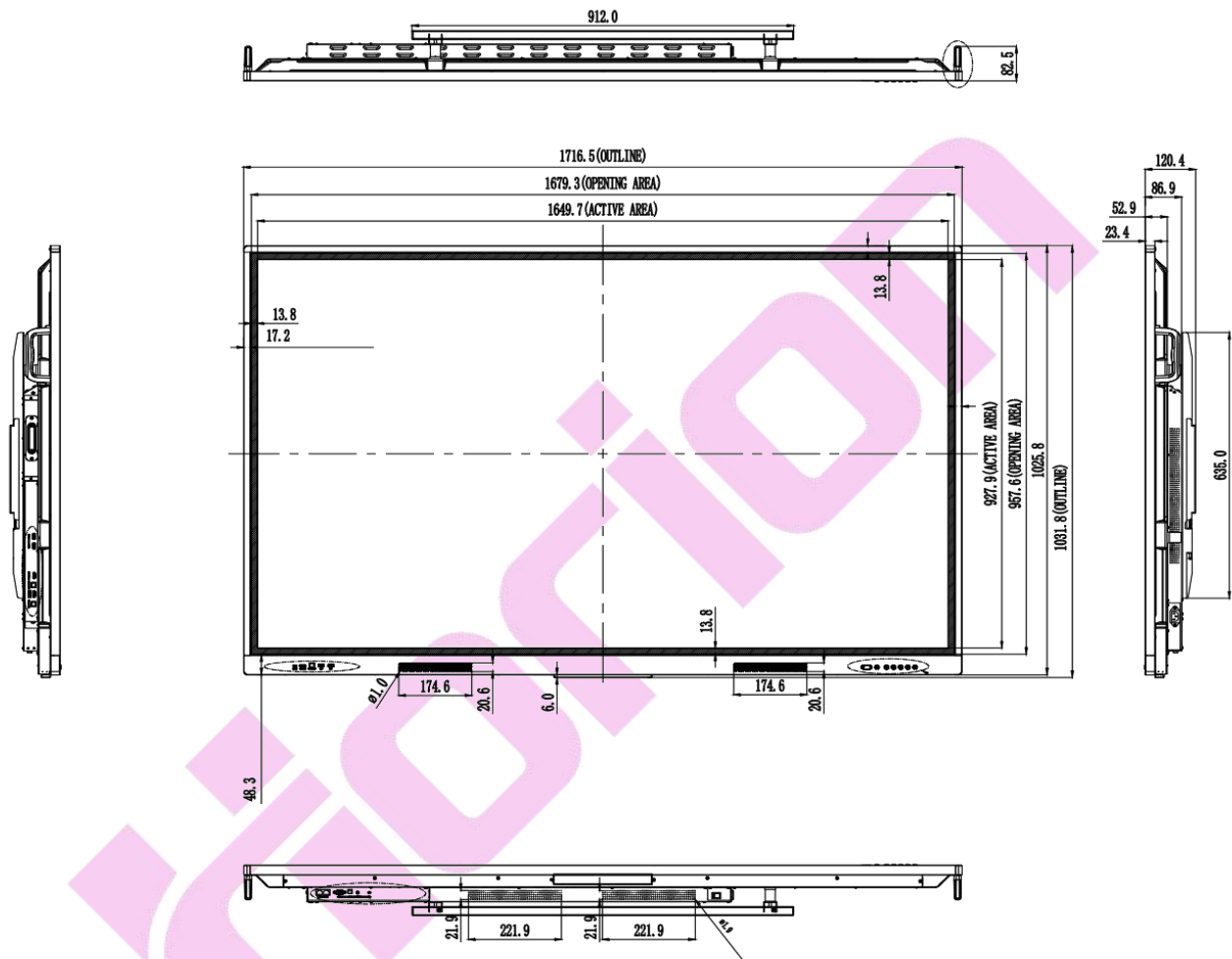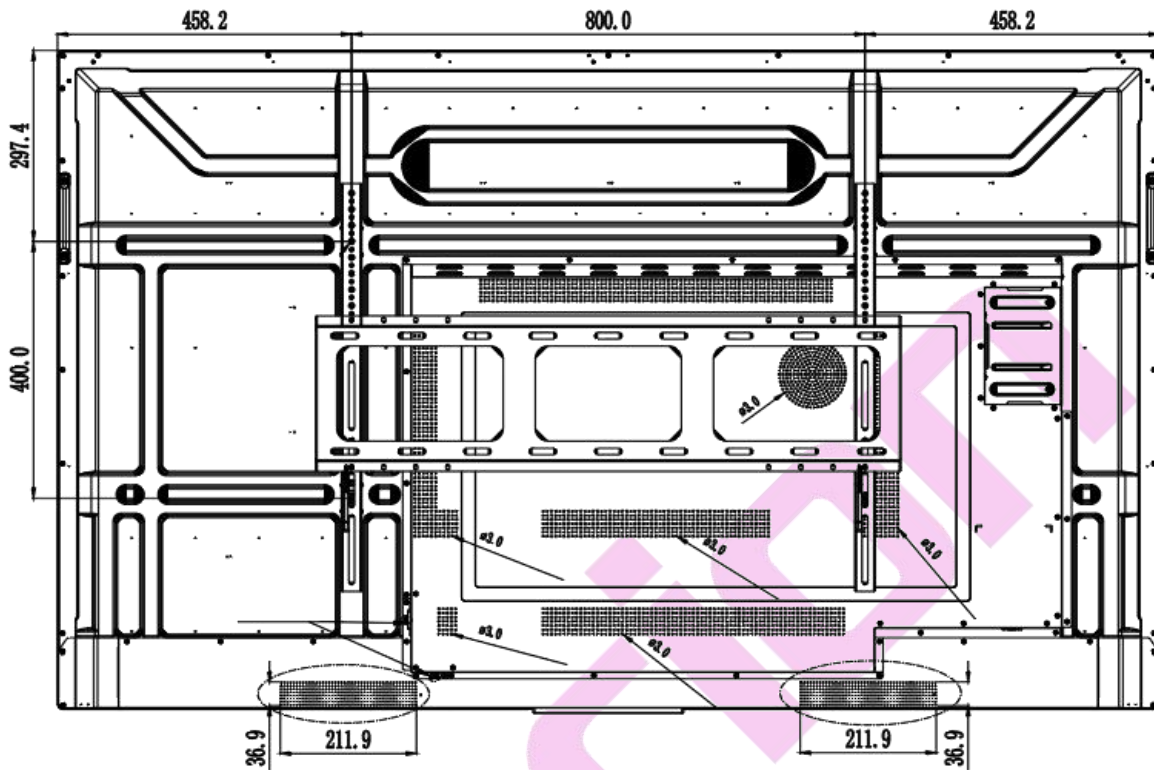
3.2 Main specification parameters

Sensing Type	Infrared Touch
Surface Protection	3.2mm AG Toughened glass
Maximum touch points	40
Interpolation Resolution	32768×32768
Response Time	≤8ms
Touch Accuracy	±1mm
Output Form	HID Standard
Theoretical Clicks	Unlimited
Touch Diameter	≥1.6mm (Single-point), ≥2mm (Multi-point)
Interface Type	USB 2.0
Working Voltage	DC+5V±5%

3.3 Operating system and software

Multi-touch supported operating system	Multi-touch：Windows 7/8/10、Android Single-touch: Windows XP、Mac OS X、Linux、Chrome

4. Product all-around view

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5. Optional device

5.1 High-speed photographic apparatus

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High-speed photographic apparatus （Optional）	
Type	Wall-mounted booth
Camera pixel	800W
Resolution	3264*2448
Power supply mode	Wired （USB3.0）
Data transmission mode	Wired （USB3.0）
Housing material	Aluminium alloy

5.2 OPS

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OPS standard （optional）	
System	Windows 10
System type	64
CPU	Intel （R） Core i5 11300H
RAM	8G
ROM	256G （SSD）
Size	180*195*30mm

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