

**HF-ITP86-0464**



## Product Features

- ≥ Perfect 4K resolution
- ≥ Industrial grade aluminum frame
- ≥ 3mm protect glass and anti-scratch
- ≥ Front audio stereophonic speaker
- ≥ 20 points touch, <5~8ms response
- ≥ Multiple signal input HDMI, VGA, Video, YPbPr, TV etc.
- ≥ Password / Pattern Lock protected
- ≥ Infrared touch technology for rich writing experience
- ≥ Support APK install & authorize management, permit or forbidden application



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# 86 INCH 4K SMART BOARD

- 450cd/m2 high brightness
- Industrial Grade Aluminum Frame
- 16.7M true Color



Smart Board is an amazing interactive smart display that is combined by touch, Monitor, Computer, Android Pad.



PROJECTOR  
E-BOARD



CAMERA



TV



COMPUTER



LAPTOP



MOBILE



Android OS or  
Windows OS



16W\*2  
Speakers



50,000hrs  
Life LED



HDMI/VGA  
signal input



178°  
view angle



5-8ms  
response

ONE SMART BOARD PRODUCT IN MULTIPLE APPLICATION

**3MM THICKNESS**



**NO SCRATCH**

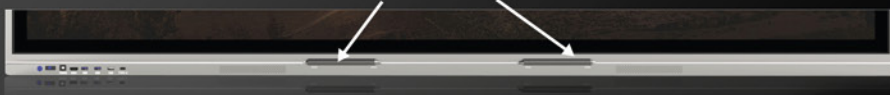


**EXPLOSION PROOF**

Morse 7 toughened glass protect LCD screen

**MAGNETIC PEN HOLD POSITION**

2 Magnetic Pen Holding Position



1mm Writing Height &  
1mm Writing Accuracy

1mm Height



**ANTI-GLARE DISPLAY**



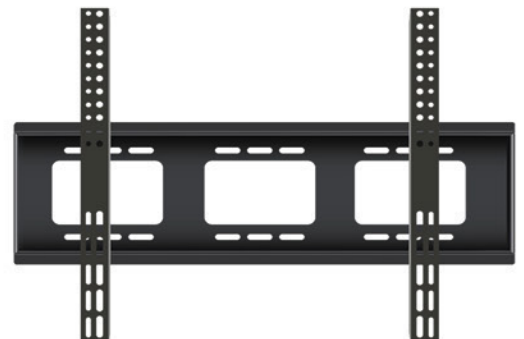
**Others**



**Hi-Focus**

**DEFAULT ACCESSORIES**

- 2 tips Magnetic Pen
- Wall Bracket



## Specifications:

### DISPLAY

Screen Size and Resolution	86" 4K/3840*2160
Bonding Technology	Zero Bonding
Display Orientation	Landscape (Portrait display option)
Screen Type	TFT LCD(Direct-LED Backlight)
Blue Light Reduction	Yes
Bonded Glass	Yes
Aspect Ratio	16:9
Display Area	86" 4K: 1895 x 1066 mm (74.6 x 41.9 in)
LCD Viewing Angle	178°
LCD Response Time	8ms
LCD Refresh Rate(Panel)	60Hz
LED Lifespan	50,000hours
Contrast Ratio	5000:1 Dynamic, 1200:1 Static
Brightness	≥350cd/m <sup>2</sup> ±5%
Ambient Light Sensor	Yes
Glass Hardness	9H(pencil),7(Mohs)
Glass Type	Heat tempered, Anti-Glare

### INTERACTIVITY

Touch Technology	Infrared Touch
Touch Method	Finger & Stylus
Vellum Touch Technology	Yes
Continuous Touch Points	20Points(Android), 40Points(Windows)
Touch Resolution	32768*32768px
Response Time	≤5ms
Touch Accuracy	≥1mm
Tracking Rate	≥4m/s
Scan Rate	200Hz
Gestures and Edge Swipes	Android and Windows supported
Eraser Included (Block Eraser)	Yes
Smart Pen	Option, Support Smart Pen at Windows OS



Pen and Touch Differentiation	Yes
Palm Erase	Yes
Palm Rejection	Yes, Writing and non-writing hand
Pens Included	Yes, 2pcs Aluminum Magnetic Stylus
Pen Type	Battery-less pen
Pen Holder	2 pen slots at down bezel of IFPD(1 pen slot on 55")
Pen Tip Diameter	≥2mm(Fine Pen Tip), ≥7mm(Thick Pen Tip)
Classroom Essential Apps	Including Whiteboard, Annotate, Timer, Calculator, Split Screen, Record, Spinner, Screen Capture, Screen Record, Screen Share, Browser, PDF reader, Media Player, Screen Cast, etc.
Compatibility	Windows 7 to 11; Mac Os 10.8 to 10.11:MAC Os Sierra 10.12.1 or later; Linux Ubuntu 20.04 LTS; Chrome OS

## COMPUTING

Operating System	Android 11
RAM	Default 4G (8G Optional)
Internal Storage	Default 64G
CPU	AMlogic T982, Quad core ARM Cortex-A55 CPU, 1.9 GHz
GPU	Mali-G52 MP2(2EE)
OSD Language	English, Arabic, Spanish, French, Italian, Japanese, Portuguese, Russian, etc
Video/Picture Decoding	<ul style="list-style-type: none"> <li>- AV1 MP-10@L6.0/5.1 up to 8Kx4K@30fps or 4Kx2K@60fps</li> <li>- H.265 HEVC MP-10@L5.1 up to 8Kx4K@30fps or 4Kx2K@60fps</li> <li>- VP9 Profile 2 up to 8Kx4K@30fps or 4Kx2K@60fps</li> <li>- AVS2 MP up to 4Kx2K@60fps</li> <li>- H.264 AVC HP@L5.1 up to 4Kx2K@30fps</li> <li>- H.264 MVC up to 1080P@60fps</li> <li>- MPEG-4 ASP@L5 up to 1080P@60fps (ISO-14496)</li> <li>- WMV/VC-1 SP/MP/AP up to 1080P@60fps</li> <li>- AVS-P16(AVS+) /AVS-P2 JiZhun Profile up to 1080P@60fps</li> <li>- MPEG-2 MP/HL up to 1080P@60fps (ISO-13818)</li> <li>- MPEG-1 MP/HL up to 1080P@60fps (ISO-11172)</li> <li>- Multiple language and multiple format sub-title video support</li> </ul>



Video/Picture Decoding

- MJPEG and JPEG unlimited pixel resolution decoding (ISO/IEC-10918)
- Supports JPEG thumbnail, scaling, rotation and transition effects
- Supports \*.mkv, \*.wmv, \*.mpg, \*.mpeg, \*.dat, \*.avi, \*.mov, \*.iso, \*.mp4 and \*.jpg file formats

Video/Picture Encoding

- Independent JPEG and H.264 encoder with configurable performance/bit-rate
- JPEG image encoding
- H.264 video encoding up to 1080P@30fps with low latency

## AUDIO & CAMERA

Dual Front-facing Speakers	86" 4K: 2 x 16W
Subwoofer	No
Microphone Array	Option(8 x Microphone array)
Inbuilt Camera	Option 1- inbuilt a 13Mega camera Option 2- inbuilt a 48Mega camera with AI features (face tracing and voice tracing)

## NETWORK

LAN in(RJ45)	10/100Mbps
LAN out(RJ45)	No
Wake-on-LAN	Yes
Wi-Fi(Client)	IEEE 802.11a/b/g/n, 2.4G, 5G
Bluetooth	5.0version

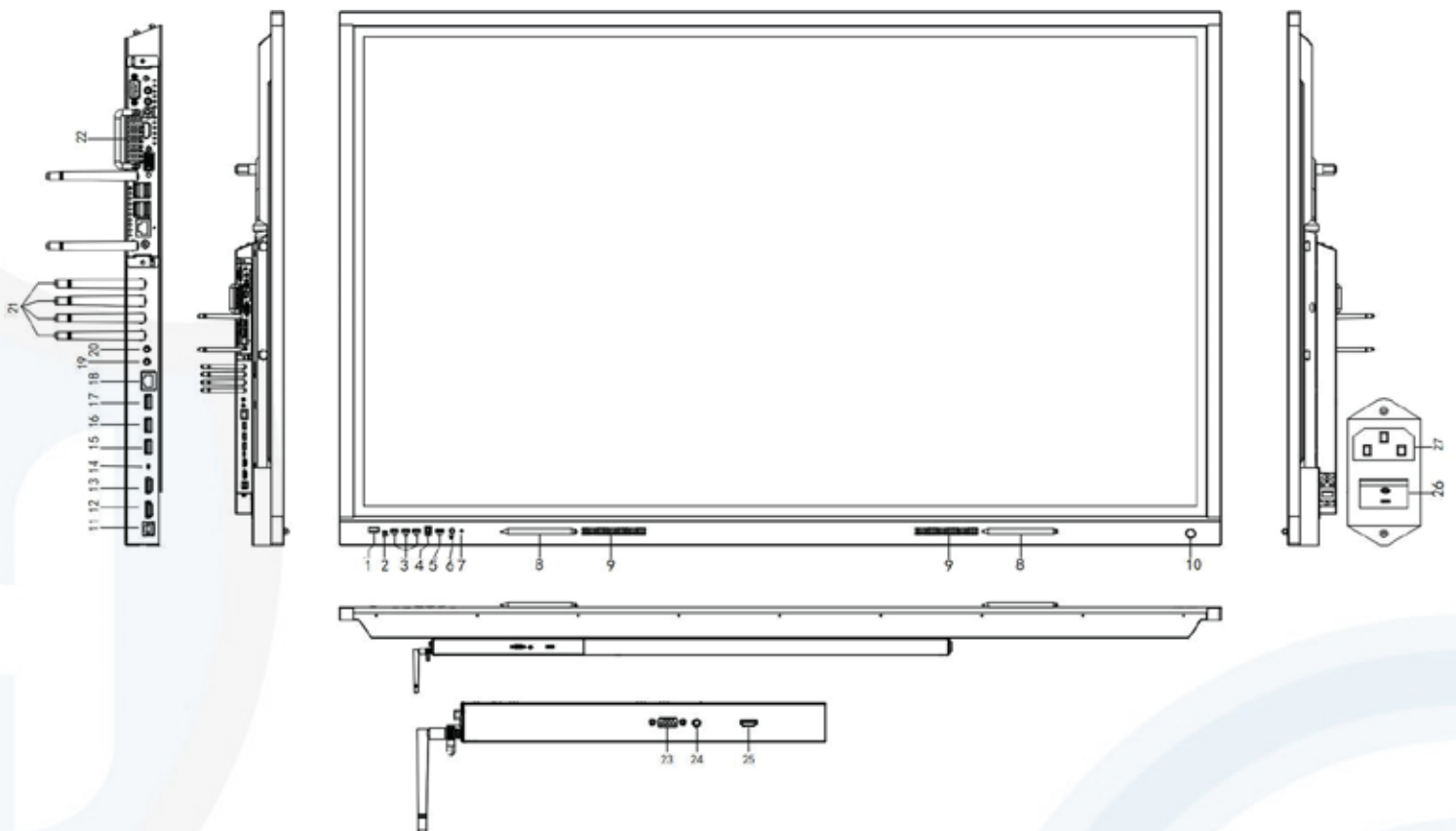
## CONNECTIVITY

HDMI in(rear)	2 x HDMI 2.1version
HDMI out(rear)	Option(1 x HDMI 2.1version)
RS-232	1
Line Out/Earphone(3.5mm)	1
SPDIF/Optical	1
Line in/Mic in(3.5mm)	1
USB-B 2.0(rear)	2
USB-B 3.0(rear)	1



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USB-C 3.2(Type-C,rear)	1
USB-A 2.0(Touch,rear)	1
HDMI in(Front)	1 x HDMI 2.1version
USB-B 2.0(Front)	3(Both work on Android and OPS)
USB-C 2.0(Type-C,Front)	1(Work as USB 2.0)
USB-A 2.0(Touch,Front)	1
Light Sensor	Yes



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1	Remote sensor and LED	Receiving infrared signal of remote controller. LED status of IFPD, Blue is working, Red is standby.
2	Type-C	Connecting USB-C cable, working as USB 2.0
3	USB-B 2.0 port	Connecting both Android and OPS system, working as USB 2.0
4	USB-A(Touch)	Connecting a USB(A-B) cable from computer/laptop, then the users can touch control computer/laptop on IFPD screen.
5	HDMI in(2.1verstion)	HDMI input port, 2.1 version.
6	Touch Lock	One Key Press to lock or unlock the touch feature of IFPD
7	Light sensor	Detecting environment light and auto adjusting display brightness. Enable the light sensor in settings menu.
8	Pen Position	2 Pen position of magnetic pen
9	Speaker	Front facing speaker, 2*16W
10	Power On/Off button	One key power on/off or standby button (Note: the position of On/Off button can be any position)
11	USB-A port(Touch)	Connecting a USB(A-B) cable from computer/laptop, then the users can touch control computer/laptop on IFPD screen.
12	HDMI input	HDMI 2.1 version input port
13	HDMI input	HDMI 2.1 version input port
14	Type-C/USB OTG	Default is HOST mode. Switching the working mode between Device or HOST mode in setting.
15	USB 3.0 port	Connecting both Android system, For USB devices, like keyboard, mouse, USB storage etc.
16	USB 2.0 port	Connecting both Android system, For USB devices, like keyboard, mouse, USB storage etc.
17	USB 2.0 port	Connecting both Android system, For USB devices, like keyboard, mouse, USB storage etc.
18	LAN port	Connecting LAN by RJ45 port
19	Line out/Earphone	Connecting earphone or audio device
20	Line in/Mic in	Connecting Microphone input device
21	Antenna	WiFi 2.4G/5G, Hotspot, Bluetooth Antenna
22	OPS slot	Connecting OPS computer to IFPD. OPS can install windows or Linux OS, suit for the height of 30~42mm OPS, international 80pins interface.
23	RS232	Connecting RS232 cable, Communication with IFPD from 3rd party devices.
24	SPDIF/COAX out	Digital SPDIF/Coaxial audio signal out.
25	HDMI out(option)	HDMI 2.1 version output port
26	AC switch	AC power on/off switch button.
27	AC socket	110~240V AC power input socket





## PANEL MANAGEMENT

OTA Updates	Yes
MDM (Option) (Multiple Display Management)	<ul style="list-style-type: none"> <li>≥ IFPD information (IFPD Location, IP,MAC, Operation System version, Specification etc.)</li> <li>≥ User management</li> <li>≥ IFPD Device management(Power on/off, Screen Lock, Sent Message, Program work flow, Setting Parameters, Install/Uninstall APK, Upgrade firmware etc)</li> <li>≥ Running log</li> <li>≥ Group management</li> </ul>

## PHYSICAL SPECIFICATIONS

Handle	86" 4K: 2
Panel Net Weight(Kg)	86" 4K: 72±0.5
Packed Weight(Kg)	86" 4K: 87±0.5
Panel Dimensions(W*H*D)(mm)	86" 4K: 1962.2 x 1162.9 x 94.7
Packed Dimensions(W*H*D)(mm)	86" 4K: 2080 x 200 x 1270
VESA Mount Point(mm)	86" 4K: 640 x 460

## POWER

Power Requirements	100V~240V AC, 50/60Hz
Energy Star Power Consumption	86" 4K: ≤200W (without OPS)
Power Consumption(Standby)	≤0.5W
Ultra-Quiet Fanless Design	Yes

## ENVIRONMENTAL

Operating Temperature	0°C to 40°C(32°F to 104°F)
Storage Temperature	-15° to 55°C(-5°F to 131°F)
Operating Humidity	20% to 80% non-condensing humidity
Storage Humidity	20% to 90% non-condensing humidity

## COMPLIANCE & CERTIFICATION

Regulatory Certifications	CCC, CE,FCC,CB,BIS,CNAS,RoHS
Enterprise Qualification	ISO9001,SGS



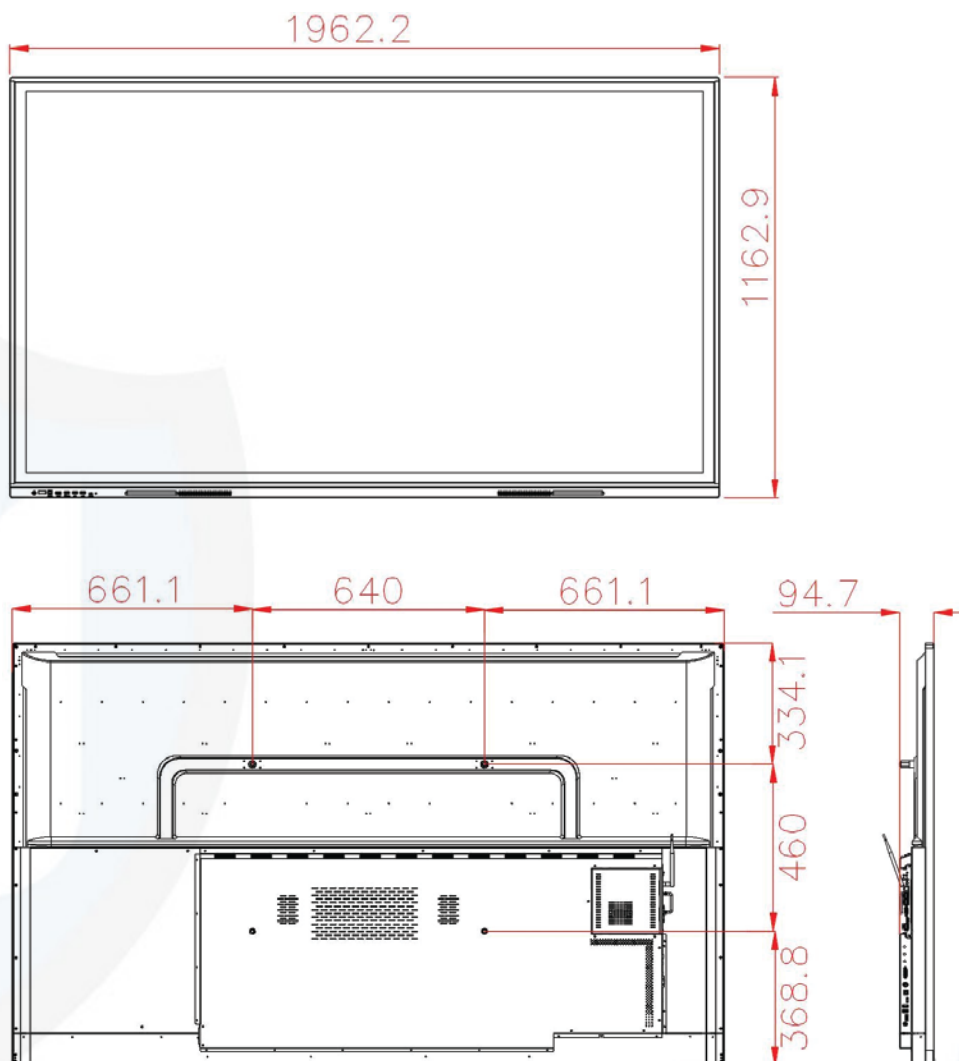
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## PACKED CONTENTS

What's in the Box	<ul style="list-style-type: none"> <li>1 x IFPD panel</li> <li>1 x Remote Controller</li> <li>1 x Wall Mount Bracket</li> <li>2 x Stylus</li> <li>1x 3 m Length HDMI Cable</li> <li>1 x User Manual</li> <li>1 x 1.8 m Regional Power Cable</li> </ul>
Option	<ul style="list-style-type: none"> <li>USB cable(A-B)</li> <li>USB-C cable</li> </ul>

## TECHNICAL DRAWINGS: 86"

(Unit:mm)



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