

# Specification of Interactive Flat Panel



Shenzhen Horion Intelligent Technology Co., Ltd

www.horionnepal.com

# riorion

# 1. Product features

- 1.1 System
  - Built-in Android 13.0 system and optional with OPS computer module (Windows 11). Switch freely to meet various needs.
  - 8-core CPU, 8GB RAM+128GB ROM for fast running speed and large storage space.

### 1.2 Appearance, audio and video

- Horion unique gun-color metal aluminum frame; the surface of the frame is oxidized, which has a fine texture and excellent weather resistance.
- 4K high resolution for ultra clear display and vivid details; high HDR and 72% NTSC high color gamut make colors more layered and bring an unparalleled visual experience.
- 48 MP AI camera, 102° horizontal Angle of view, compatible with a variety of video conferencing platforms; support sound localization to always focus on the speaker.
- 8-array microphone, 12 meters long distance pickup, equipped with intelligent noise reduction to make remote calls more clear, quality is guaranteed.
- 60W audio units, two 20W speakers plus one 20W subwoofer for a stunning audio effect.

### 1.3 Whiteboard

- High precision infrared touch frame, touch accuracy up to ± 1 mm, support up to 45 touch. Highly sensitive touch technology and ultra-low writing delay make every stroke feel like it falls on the page.
- Support single point and multi-point writing, support writing with pen edge and change color. Comments can be made in any page.
- Ultra-low write latency, the writing delay is less than 30ms, which is infinitely close to natural writing.
- Using 3.2mm AG anti-glare tempered glass, even in strong light environment, the picture is still delicate and bright. Mohs hardness level 7 can be strong scratch resistance.

### 1.4 Transmission

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- Built- in infrared, NFC, and light sensor modules.
- Front bi-directional Type-C port, supports bi-directional data flow, and supports 60W power ultra-fast charging.
- Wireless screen mirror, no need to install driver, computer/mobile phone can be quickly mirror to IFP.
- Randomly paired with the new Type-C dongle. Compared with the traditional USB dongle, the picture is clearer and the delay is lower.
- Equipped with Wi-Fi 6 module, the speed is 38% faster than WiFi 5. Lower latency, lower power consumption and safer transmission.
- Dual Wi-Fi module, Wi-Fi 6 for surfing and Wi-Fi 5 for screen mirror, full speed, no interference.
- The rich port can be compatible with a variety of mainstream audio and video terminals, making remote communication simpler and multi-party collaboration more efficient.

#### 1.5 Commercial display

- High-definition image processing engine: image motion compensation, color enhancement processing, point-to-point precision display technology.
- Image output function: output real-time images to the expansion device with high-definition, stable and low-latency.
- Customized welcome page: massive templates to meet different usage scenarios;
- WPS office APP: document display no longer cumbersome with efficient communication;
- More applications: Timers, vote kit and other applications are convenient to operate.

# 2. Main Specifications

#### 2.1 Overview

Certified model	M6APro
Display	
Size	98"
Backlight Type	D-LED
Resolution(pixels)	3840×2160(pixels)(UHD)

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Brightness	430cd/m <sup>2</sup>
Contrast Ratio	1 200:1
Response Time	8ms
Pixel Pitch(mm)	0.5622(H)x0.5622(V)
Refreshing Frequency	60Hz
Viewing Angle	178°(H) / 178°(V)
Color Gamut(x% NTSC)	72%NTSC
View Area(mm)	21 58.85(H)x1 21 4.35(V)
Display Colors	1.07B(10bit)
Life Time	50,000hrs
Electrical	
Chipset	A311D2
CPU Architecture	Cortex A73+A53
CPU Working Frequency	Max 2.2GHz for big and 2.0GHz for little
CPU Core	Quad core A73 + Quad core A53
GPU	Mali G52-MP8
RAM	8GBLPDDR4X
ROM	128GB
OS	Android 1 3.0
Power Requirements	AC 100V ~ 240V, 50/60 Hz
Power Consumption Without OPS	550W
OPS Power	DC 18V/5A
Standby Condition	<0.5W
Audio Output Power	20W ×2
Subwoofer	20W
Sensor	Infrared, NFC, and light sensor
Mainboard Interface	



HDMI IN ×2 3840×21 60@60Hz Version: HDMI2.0 HDMI 1 Support ARC   DP IN ×1 3840×21 60@60Hz Version: DP1.2a   Type-C ×1 DFP Mode only 15W PD   Type-C ×1 DFP Mode only 15W PD   VGA IN Input Impedance: 75Q Level: 0.7±0.15 Vp-p   VGA IN Input Impedance: 75Q Level: 0.7±0.15 Vp-p   AUDIO IN ×1 0.2-2Vrms Interface: 0B1 5   LAN ×2 10M/100Mh2 Base-T Interface: 0JS.5mm mini interface   USB2.0 ×1 Support Images, music, video file playback, and firmware upgrade, android system use only. Interface: USB2.0 Type-A   USB3.0 ×2 Smart follow interface; uSB3.0 Type-A   Touch ×3 Touch port for HDMI1/HDMI2/DP/VGA Interface: USB3.0 Type-B   MIC IN ×1 Interface: 0.5mm mini intercafe   SPDIF ×1 Max speed: 16Mbps Interface: 0.5mm mini intercafe			Max Resolution:
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MIC IN ×1 Interface: Φ3.5mm mini intercafe   SPDIF ×1 Max speed: 16Mbps   Interface: Optical Interface: Optical	Touch	×3	HDMI1/HDMI2/DP/VGA
SPDIF ×1 Max speed: 16Mbps Interface: Optical   RS232 IN ×1 RS232 Input			Interface: USB3.0 Type-B
SPDIF ×1 Interface: Optical   RS232 IN ×1 RS232 Input	MIC IN	×1	Interface: Ф3.5mm mini intercafe
RS232 IN ×1 RS232 Input	SPDIF	×1	Max speed: 16Mbps
			Interface: Optical
		×1	RS232 Input
Interface: DB9			Interface: DB9



AUDIO OUT	×1	Output level(L/R): 110mVrms±40mVrms(@500mVrms1KHz, load 32Ω) Interface: Φ3.5mm mini interface
SD CARD	×1	Support TF Card Interface: Micro SD card socket Remarks: optional before delivery
HDMI OUT	×1 Max Resolution: 3840×2160@60Hz Version: HDMI2.0 All channel can be same screen-outed b HDMI	
Front Interface		
Type-C	×1	Power output: 60W(20V/3A) Up to 3840×2160@60Hz Support DRP mode Interface: Type-C
Public USB	*2	Version: USB3.0 Interface: Type-A
WIFI		
	Main Chipset	BCM43752
Wi-Fi 6	Operating Frequency	2.4GHz/5GHz
	Wi-Fi Standard	802.11 a/b/g/n/ac/ax
	Main Chipset	MT7663BU
Wi-Fi 5	Operating Frequency	2.4GHz/5GHz
	Wi-Fi Standard	802.11 a/b/g/n/ac
Bluetooth		
Bluetooth		BT 5.3
NFC		
Standard	ISO/IEC 1 4443 A / ISO/IEC 1 4443 B	



Read/Write distance	<30mm	
Read/Write speed	106 To 424kbps	
Read/Write latency	<100ms	
Camera		
Pixels	48MP	
FOV	DIAGONAL	114.9°
Al Camera(active open required)	Horizontal Sound localization Intelligent framing	102.1°
Array Mic		
Array quantity	8-mic	
Pick up Area	12m(Angle: 180°)	
AEC	Support	
AGC	Support	
Speech enhancement	Support	
Output signal	USB output	
Touch		
Sensing Type	Infrared Touch Frame	
Surface Protection	3.2mm Toughened Glass	
Infrared Touch	45 Points(max.)	
Interpolation Resolution	32768×32768	
Touch Accuracy	±1mm	
Response Time	≤8ms	
Output Mode	HID Standard	
Theory Clicks	Unlimited	
Minimum Touch Object	Single touch $\geq$ 1.6mmMultiple touch $\geq$ 2mm	
Connect Type	USB2.0 Full Speed	
Voltage	DC+5V±5%	



Power Consumption	≤2W	
Windows 11/10/8/7, Android	Multiple Touch	
Windows XP, Linux, Mac OS X, Chrome	Single Touch	
Structure		
Product Size(W×D×H)	2239.15mm × 103.05mm × 1315.75mm	
Package Size(W×D×H)	2525mm × 435mm × 1750mm	
Housing Material	Aluminum/Metal plate	
Housing Color	Black&Dark pewter/Black	
VESA	4 × M8 Screw Hole 600mm×400mm	
Accessories		
Remote Control	×1	
Touch Pen	×2	
3m Power Cord	India Standard×1, Europe Standard×1, American Standard×1, Austrilia Standard×1, Japan Standard×1, Saudi Arabia + Britain Standard×1, Brazilian Standard×1	
3m USB A-B Cable(Touch Cable)	×1	
3m HDMI Cable	×1	
Qualified Certificate Lable	×1	
Instruction	×1	
Warranty Card	×1	
Wall Mount	×1	
Smart pen(optional)	×1	
Screen projector(optional)	×1	
Environment		
Operating temperature	0°C ~ +40°C	
Storage temperature	-10°C ~ +60°C	
Operating humidity	20% ~ 80% RH Non-Condensing	



Storage humidity	10% ~ 80% RH Non-Condensing
Operating altitude	≤ 5000m
The longest service time	18 Hours×7 days

# 3. Touch and writing system

#### 3.1 Overview

• High precision of infrared touch frame, resolution by interpolation algorithm can be as high as

32768\*32768.

Supports up to 45 touch points.

## 3.2 Specifications

Sensing Type	Infrared Touch Frame	
Surface Protection	3.2mm Toughened Glass	
Infrared Touch	45 Points(max.)	
Interpolation Resolution	32768×32768	
Response Time	≤8ms	
Touch Accuracy	±1mm	
Output Mode	HID Standard	
Theory Clicks	Unlimited	
Minimum Touch Object	Fouch ObjectSingle touch $\geq$ 1.6mm,Multiple touch $\geq$ 2mm	
Connect Type	USB2.0 Full Speed	
Voltage	DC+5V±5%	

#### 3.3 Systems and software

Support Multiple Touch	Windows 11/10/8/7, Android
Support Single Touch	Windows XP, Mac OS X, Linux, Chrome