Specification of Interactive Flat Panel



Series: Interactive flat panel

Product model: 75M6APro

Date: December 2023

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.
- Google EDLA certified.

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 ±1mm, support up to 50 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 25ms, 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

- 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	74.5"

Backlight Type	TFT LCD panel with D-LED and IPS technology
Resolution (pixels)	3840×2160(pixels)(UHD)
Brightness	up to 460cd/m²
Contrast Ratio	2 options: 1200:1 or 5000:1
Response Time	5ms
Pixel Pitch (mm)	0.4296(H)x0.4296(V)
Refreshing Frequency	60Hz
Viewing Angle	178°(H) / 178°(V)
Color Gamut (x% NTSC)	72%NTSC
View Area (mm)	1649.664(H)x927.936(V)
Display Colors	1.07B(10bit)
Life Time	50,000 hrs
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	8GB LPDDR4X
ROM	128GB
OS	Android 13.0 EDLA
Power Requirements	AC 100V ~ 240V, 50/60 Hz
Power Consumption Without OPS	300W
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	Max Resolution: 3840×2160@60Hz Version: HDMI2.0
		HDMI 1 Support ARC
DP IN	×1	Max Resolution: 3840×2160@60Hz Version: DP1.2a
Type-C	×1	DFP Mode only 15W PD Max Resolution: 3840×2160@60Hz Interface: USB Type-C
VGA IN	×1	Input Impedance: 75Ω Level: 0.7±0.15 Vp-p Max Resolution: 1920×1080@60Hz Interface: DB15
AUDIO IN	×1	Input level(L/R): 0.2-2Vrms Interface: Φ3.5mm mini interface
LAN	×2	10M/100M/1000Mbps Base-T Interface: RJ-45
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, support images, music, video file playback, can not use for firmware upgrade. Interface: USB3.0 Type-A
Touch	×3	Touch port for HDMI1/HDMI2/DP/VGA Interface: USB3.0 Type-B
MIC IN	×1	Interface: Φ3.5mm mini intercafe
SPDIF	×1	Max speed: 16Mbps Interface: Optical

RS232 IN	×1	RS232 Input Interface: DB9
AUDIO OUT	×1	Output level(L/R): 110mVrms±40mVrms(@500mVrms 1KHz, 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 by 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		
Wi-Fi 6	Main Chipset	BCM43752
	Operating Frequency	2.4GHz/5GHz
	Wi-Fi Standard	802.11a/b/g/n/ac/ax
Wi-Fi 5	Main Chipset	MT7663BU
	Operating Frequency	2.4GHz/5GHz
	Wi-Fi Standard	802.11a/b/g/n/ac
Bluetooth		
Bluetooth		BT 5.3
NFC		
Standard	ISO/IEC 14443 A / ISO/IEC 14443 B	

Support card type	MIFARE FeliCa	
Read/Write distance	<25mm	
Read/Write speed	106 To 424kbps	
Read/Write latency	<100ms	
Camera		
Pixels	48MP for phote mode 1080p for video conferencing and hybrid learning	
FOV	DIAGONAL	114.9°
	Horizontal	102.1°
AI Camera (active open required)	Sound localization	
	Intelligent framing	
Array Mic		
Array quantity	8-mic with AI noise and echo cancellation	
Pick up Area	12m (Angle: 180°)	
AEC	Support	
AGC	Support	
Speech enhancement	Support	
Output signal	USB output	
Structure		
Net Weight	54kg±1.5kg	
Gross Weight	70kg±1.5kg	
Product Size (W×D×H)	1722.5mm × 87.1mm × 1021.8mm	
Package Size (W×D×H)	1900mm × 225mm × 1125mm	
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 Label	×1
Instruction	×1
Warranty Card	×1
Wall Mount	×1
Environment	
Operating temperature	0℃ ~ +40℃
Storage temperature	-10℃ ~ +60℃
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 50 touch points.

3.2 Specifications

Sensing Type	Infrared Touch Frame
Surface Protection	3.2mm Toughened Glass

Infrared Touch	50-point (max.) under Windows 30-point (max.) under Android
Interpolation Resolution	32768×32768
Response Time	⩽5ms
Touch Accuracy	±1mm
Output Mode	HID Standard
Theory Clicks	Unlimited
Minimum Touch Object	Single touch ⩾ 1.6mm, Multiple touch ⩾ 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