Specification of interactive flat panel

Product Categories：Interactive flat panel

Product Model：75M5A

Date：2021.4

1. Product characteristics

1.1 System properties

- Equipped with Android 8.0 Smart OS and a unique user interface design;
  3GB internal cache + 64GB internal storage, for faster operating speeds;

1.2 Exterior and smart touch:

- Gun-color business appearance, four-corner arc design, safe and reliable; front USB interface that can be shared by dual systems, convenient operation;

- There are 2 USB ports available in the front of board which support dual operating system, and 1 Type-C port, which is convenient to operate;

- The distance between the tempered glass and the screen is close to 0, which can effectively prevent light reflection, the display effect and the writing experience are excellent;

- High-precision infrared touch frame, touch accuracy ±1mm, touch height 2.0mm, support 20-point touch, high sensitivity;

- With OPS interface, it can expand dual system: Android 8.0&Windows 10; dual network port design can realize switch function;

1.3 Whiteboard writing：：

- Support single-point and multi-point writing, writing with a pen tip or finger, adding colored pen effects, etc., any channel and any interface can be annotated;

- Adopt 3.2mm AG anti-glare tempered glass, Mohs hardness level 7, better writing experience;

1.4 Conference & Training：

- Built-in 13 Megapixel camera and 8-channel array microphone, making remote meetings more convenient and efficient

- Built-in NFC function, with smart pen, the whiteboard function can be called up at any time;

- Built-in 2.4G/5.8G dual-band dual-network card, supports simultaneous use of wireless Internet access and WIFI hotspot, and the antenna adopts a front hidden design

- Bluetooth function, which can wirelessly connect to Bluetooth devices such as mobile phones/stereos to transmit data; and supports wireless connection with printing devices for printing;

1.5 Commercial Display

- LG IPS Screen; 4K UHD resolution; Eye protection (low blue light) mode:Filtering blue light through software settings to protect eye health; High-definition image processing engine: image motion compensation, color enhancement processing, point-to-point precision display technology;

- Full-channel output function: output real-time images with high-definition, stable and low-latency to the expansion device;
- Horion conference central management to meet the needs of different scenarios;

2. Main Specification Parameters

2.1 Specification overview:

Display	
Certification	65M5A
Size	74.5"
Backlight type	D-LED
Resolution	3840*2160（UHD）（RGB）
Brightness	400cd/m²
Contrast ratio	1200:1
Response time	8ms
Pixel pitch	0.4296mm*0.4296mm
Refreshing frequency	60Hz
Viewing angle	178°(H) / 178°(V)
Color gamut(x% NTSC)	72%
View area	1649.664mm*927.936mm
Display colors	1.07B(8bit+FRC)
Life time	30,000 hrs
System	
Solution	MSD8386
Operation system	Android 8.0
CPU Architecture	ARM A73+A53
CPU Working Frequency	1.5GHz
CPU Core	Quad Core
GPU	Mali-G51
RAM	3GB DDR4
ROM	64GB Standard
Power	

Voltage	100 V ~ 240 V/AC, 50/60 Hz
Power consumption without OPS	300W
OPS Power	18V(DC)/5A
Power consumption in standby mode	<0.5W
Power（AC）input	*1
Camera	
Pixel	13M
FOV	DIAGONAL 78°
Array Size	MJPEG : 3840*2160(12fps) 4139*3104(8fps) 1280*720(30fps) 1920*1080(30fps)
Array Mic	
MIC Category	8pcs omnidirectional silicon wheat
Pick-up Distance	8M
Pick-up Angle	180°
Function	
Audio Output Power	10W * 2
WIFI	Support
NFC	Support
Bluetooth	Support
Interface	
HDMI In	*2
DP In	*1
VGA In	*1
OPS (Optional)	*1
LAN	*2
Type-c	*1
Android USB	*2
Public USB	*2

Touch-USB	*1
PC-Audio In	*1
HDMI Out	*1
S/PDIF Out	*1
Audio OUT	*1
RS232 In	*1

Environment	
Working Temperature	0℃ ~ 40℃
Storage Temperature	-10℃ ~ 60℃
Working Humidity	20% ~ 80%
Storage Humidity	10% ~ 80%
Image Model	Standard、Computer、Gorgeous、Bright、Soft、Nature、Exercise、Game、Automatic、Users
The longest service time(Hour*Day)	18Hours*7days

Structure	
Net Weight	50Kg±1.5Kg
Gross Weight	70Kg±1.5Kg(Heavy Carton)
Product Size（W*D*H）	1722.41mm*87.08mm*1022.15mm
Package Size（W*D*H）	1880mm*280mm*1160mm(Heavy Carton)
VESA	4-M8 Screw Hole 800mm*400mm
Housing Material（Surface Frame /Back Cover）	Aluminum/Sheet Metal
Housing Color（Surface Frame /Back Cover）	Gray(White)/Black

Accessories	
Pen	*2
Remote Control	*1
Expansion Screw	*8
USB Disk	*1
User Manual	*1
Certificate of quality/Warranty card	*1

HDMI Cable	*1
Touch Cable	*1
Power Cord	*1
USB Extension Cable	*1

2.2 The Interface Distribution:

- The right side of the back: HDMI-OUT\SPDIF\Touch-USB\USB2.0 \USB2.0 \DP\HDMI2\HDMI1；

- The right lower side of the back :LAN1\LAN2\RS232\Audio OUT\ PC-Audio\VGA；

- The left side of the front: Public-USB\Public-USB\Type-c；

3. Touch Frame Specifications

3.1 Product Overview:

- High precision of infrared touch frame,resolution by interpolation algorithm can be as high as 32767 x32767；

- Support Plug and Play；

- Support 20 Points Infrared Touch；

3.2 Main specification parameters:

	Sensing Type	Infrared Touch Frame
Touch System	Surface protection	3.2mm AG Toughened glass
	Response Time	<8ms
	Touch Accuracy	More than 90% of the touch area of plus or minus 1mm
	Minimum Touch Diameter	≥1.6mm(Single-point)；≥2mm(Multipoint)
	Input Mode	Finger or Pen
	Output Form	HID Standard
	Theory Clicks	Unlimited

3.3 Electrical Specification:

Interface Type	USB2.0 at full speed
Working Voltage	DC+5V±5%
Power Consumption	≤2W

3.4 Operating system and software:

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

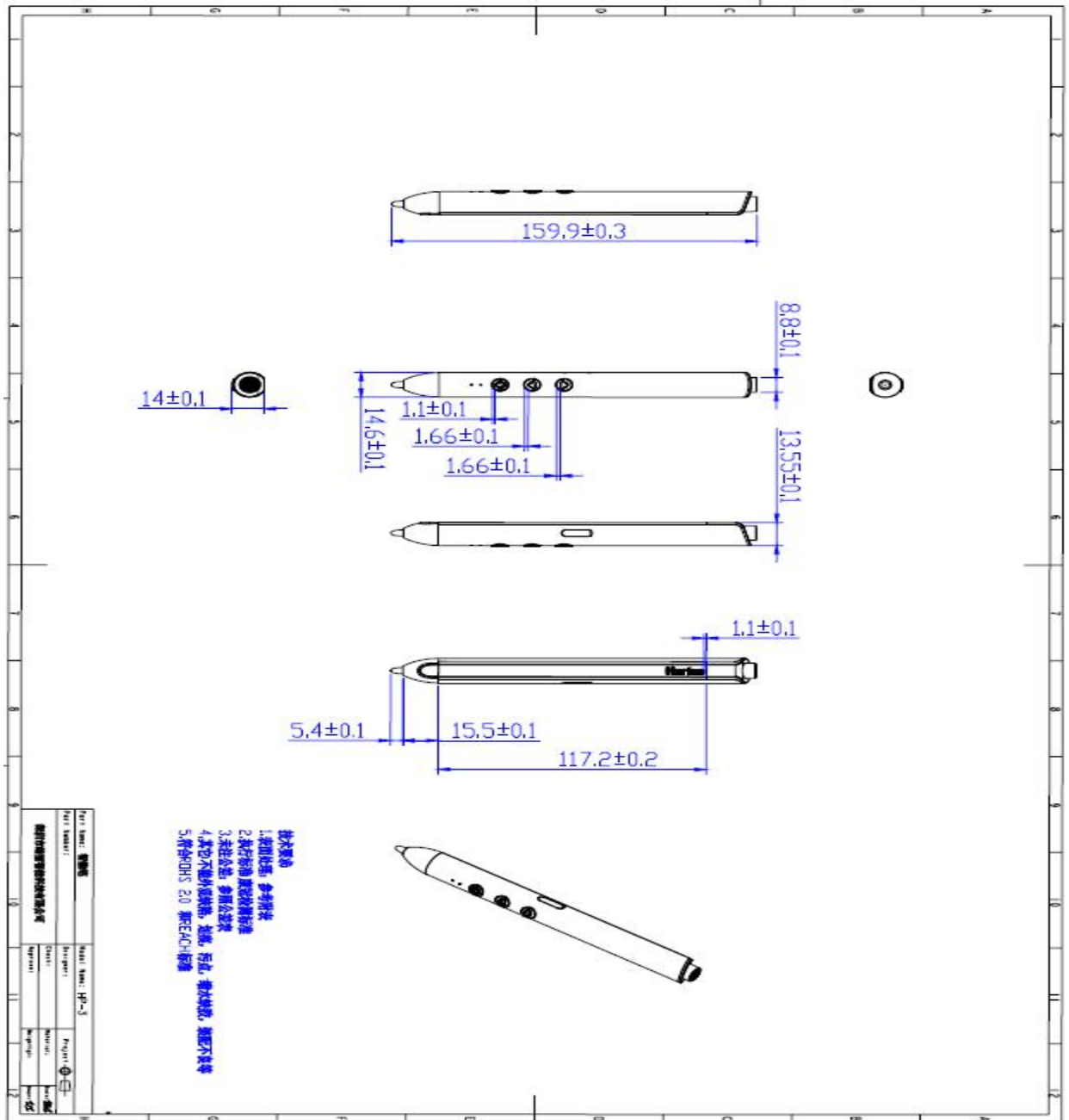# Product Model: Mobile Base for Flat-panel Display HK70

Specifications:

Hole distance: 194.5×180mm	
Size of display/TV to be mounted: 55"-75"	
Max. Load bearing: 100KG	
Product Size： 1080*1606*580mm	
Package Size： 1603*750*160mm	
Net Weight: 48Kg±0.5Kg	
Gross Weight: 52Kg±0.5Kg	
Color: Black & Silver	
Material: High quality carbon steel & Tempered glass	
The castors are 2" with foot brake	

Product Model: Smart Pen HP-3

1.Product Picture:

2.Six views of product:

159.9±0.3

8.8±0.1

14±0.1

1.1±0.1

14.6±0.1

1.66±0.1

13.55±0.1

1.66±0.1

1.1±0.1

5.4±0.1   15.5±0.1

117.2±0.2

3.Product function diagram:

Page up / Full screen/,Exit
（Long press for 1.5 seconds)

Page down/Turn on voice（Long press） （2.4G Model）

Left mouse button （Click）/Indicative function（Long press to call
out the flying mouse, release to switch off it）

Microphone

LED blue light

Built-in NFC sensor chip
Automatic induction calling
out whiteboard

Under android system: Click (One-click annotation)
long press for 1.5s: spotlight, long press again to close
Under Windows system:
Long press for 1.5s: highlight / magnifying glass /
digital light point / pointer mode switch back and forth

Micro USB
Charging port

Number	Work interface	Function description	
1	LED Indicator light	Color: Blue ① Working indication: press the key, LED light will be on, release it and off ; ② Low voltage indication: when battery power is low (＜ 3.2V), LED light flashes at high speed ; ③ Charging indicator: the light is always on when charging; the light is off when fully charged; ④ No communication connection:light flashes slowly for about 40 seconds to enter sleep;	
2	Cap of pen	Under android system: Click (One-click annotation) long press for 1.5s: spotlight, long press again to close; Under Windows system: Long press for 1.5s: highlight / magnifying glass / digital light point / pointer mode switch back and forth;	
3	Flying mouse key	Click (left mouse button), long press (flying mouse on, release flying mouse off);	
4	Up page key	Short press (one page up); long press for 1.5 seconds (full screen / exit switch back and forth)	↑Up arrow key
5	Down page key	Short press (one page down); long press (turn on voice), release to turn off it;	↓Down arrow key
6	Voice	Long press the page turning key to turn on the voice, and release to turn off;	2.4G Model
7	NFC	Pen tail near NFC sensing area of Conference Board (exhaling whiteboard);	
		Electrical properties	
8	Working voltage	3.7v/working current≤21mA; standby current ≤50uA;	
9	Communication requirements	RF2.4GHZ,Remote control distance is 15m maximum in open environment; Bluetooth is 10m;	
10	Receiver	Support USB3.0 / 2.0 / 1.1 interface;	
11	Power management	Lithium battery ; Low power detection and prompt ; When Vbat < = 3.2V, the remote control is in low power state;	

4. Connection mode:

- Bluetooth and 2.4G mode switching;
- Press down key and pen cap key at the same time, the light flashes, indicating that the switching function is selected;
- If you release the cap key, the light will go out. When it comes on later, you will enter the 2.4G mode;
- If you don't release the pen cap key, just release the "down key", the light will go out, and then when it's on, you will enter the Bluetooth mode;

5. Connection mode:

5.1 Code matching (Only 2.4G)

Boot up code	Press the "up" and "down" keys at the same time, the light will flash quickly, indicating that the code matching function is selected; release the key to start the code matching, the light will flash at a high speed; then insert the receiver into the host; That is, first let the page flipper enter the code matching mode, and then insert the receiver into the host;
Code success	Code matching is successful. The blue light of the page flipper flashes at high speed and then goes out;
Code failure	The blue light continues to flash, and the code checking mode will exit automatically after a timeout of about 30 seconds;

- When the receiver is just powered on, it has 2-3s code time;
- One to one pairing, the factory flip pen and dongle are matched by default;
- When the remote control is in sleep mode, press any key to wake up;

5.2 Bluetooth connection:

- Turn the smart pen to Bluetooth mode, open the Bluetooth interface of the conference tablet, search for the device name "Horion · airpen + factory number";
- Click Connect to show that the pairing is successful after the connection;

6. Use scenario

- product use: intelligent touch integrated TV;
- system requirements: Windows 10 / 7 / XP, Android 4.0 or later;
- compatible interface: usb1.1/usb2.0/usb3.0/support external USB extension cable or USB hub;