



21.5 寸电容触摸一体机规格书

21.5 inch Capacitive touch all-in-one

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1.1 产品简介 Product introduction

电容触摸一体机/显示器是方便、新型的人机交互设备，它集合了触控、电脑、多媒体、音响、网络、工业设计、结构创新等优点，拥有纯平面的产品结构，配以性能卓越的触控效果，能快速完成信息的查询和展示，真正做到简单使用的人机交互。

Capacitive touch all-in-one machine/display is a convenient and new human-computer interaction equipment, which integrates the advantages of touch control, computer, multimedia, audio, network, industrial design, structural innovation, etc., with a flat product structure, with excellent performance of the touch effect, can quickly complete the information query and display, truly simple to use human-computer interaction.

1.2 功能特点 Functional characteristics

- 电容触控：10 点投射式电容触控技术，3 毫秒快速响应，精准稳定；
- 高清显示：全新 A 规液晶屏，高清分辨率 1920*1080，亮度达 250，色彩清晰自然；
- 兼容系统：可提供触摸显示器，安卓触控一体机，电脑触控一体机；



●性能稳定：每批设备需经整机老化、温湿度测试、静电检测、震动、高压、触控点击、显示等多道试验检验，确保品质稳定，支持 7*24 小时工作；

●结构工艺：私模设计，全新框贴工艺，密封性好，正面 IP65 防水，纯平纤薄结构，最薄处仅 20.5mm；

●耐用材质：ABS 边框+钣金后壳，坚实耐用，耐蚀抗氧化；

●支持定制：提供多种定制化服务，灵活增加多个串口、U 口；

1.Capacitive touch: 10-point projection capacitive touch technology, 3ms fast response, accurate and stable;

2.HD display: new A-gauge LCD screen, HD resolution 1920*1080, brightness up to 250, clear and natural color;

3.Compatible system: can provide touch display, Android touch in one, computer touch in one;

4.Stable performance: Each batch of equipment needs to go through the whole machine aging, temperature and humidity test, electrostatic detection, vibration, high voltage, touch and click, display and other multi-channel test inspection to ensure stable quality, support 7*24 hours of work;

5.Structure process: private mold design, new frame paste process, good sealing, front IP65 waterproof, flat thin structure, the thinnest point is only 20.5mm;

6.Durable material: ABS frame + sheet metal back shell, solid and durable, corrosion and oxidation resistance;

7.Support for customization: Provide a variety of customized services, flexibly add multiple serial ports, U ports;

2.1 系统设计 System Design

输出（一体机） Output (all-in-one)	内部电脑 HDMI 或 VGA 输出 Internal computer HDMI or VGA output
输入（触显） Input (touch)	支持 VGA、(HDMI、DVI)输入 Supports VGA, (HDMI, DVI) input
触摸功能 Touch function	全新投射式电容屏，10 点触摸，支持多点手势； New projective capacitive screen, 10-point touch, support multi-point gesture;
显示 reveal	PC 全高清 HDMI 支持 1080P PC full HD HDMI support 1080P
PC 视频解码 PC video decoding	1080P 全高清 (Full HD) MPEG、H.264 等 1080P Full HD MPEG, H.264, etc
结构设计 Structural design	ABS 边框，钣金后壳，散热合理，可选配独立设计的底座 ABS frame, sheet metal rear shell, reasonable heat dissipation, optional independently designed base
系统模块 System module	PC、显示、触摸一体，一键开关机 PC, display, touch one, one key switch machine

2.2 液晶屏参数 screen parameters

屏类型 Screen type	LED 液晶屏 (a-Si TFT-LCD) A 规 LED LCD screen (A-SI TFT-LCD) A gauge
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显示区域 Display Size	476.64(H) × 268.11(V)		
最佳分辨率 Resolution	1920*1080		
显示亮度 Brightness	250	对比度 Contrast	1000:1
响应时间 Response time	25 (Typ.) (Tr/Td)ms	刷新频率 Refresh frequency	60Hz
色彩总数 Color total	16.7M , 52% (CIE1931)		
可视角度 Viewing Angle	85/85/85/85 (Typ.) (CR≥10)		
灯管寿命 Lamp life	30K(Min.)(Hours)		

2.3 触摸屏参数 Touch screen parameters

触摸技术 Touch technology	电容触摸屏 (G+G) , 可选 ILITEK/EETI 方案, 可选 AG 盖板, 可选防水方案 Capacitive touch screen (G+G), optional ILITEK/EETI solution, optional AG cover plate, optional waterproof solution		
响应时间 Response time	< 3ms		
触摸点数 Touch count	10pt (需系统支持)		
触摸有效识别 Effective touch recognition	> 1.5mm	触摸数据输出方式 Touch data output mode	坐标输出 Coordinate output
通信方式 Communication mode	全速 USB 2.0, 3.0 Full speed USB 2.0, 3.0	理论点击次数 Theoretical clicks	5000 万次以上 More than 50 million times
固件 firmware	支持 USB 升级 Support USB upgrade	驱动 actuate	
工作电流/电压 Operating current/voltage	180Ma/DC+5V±5%		
抗光干扰 Anti-optical interference	阳光、白炽灯、日光灯等强光变化时正常使用 Sunlight, incandescent lamps, fluorescent lamps and other strong light changes when normal use		
表面硬度 Surface hardness	物理钢化, 莫氏 6H 级玻璃 Physically tempered, Mohs class 6H glass		
操作系统兼容性 Operating system compatibility	Win 7/ Win 8/Win 10/Android/Linux /XP		

2.4 电气性能 Electrical performance

输入电源 Input power supply	110-240V AC 50/60Hz	待机功耗 Standby power consumption	< 8W
触显功耗 Contact power consumption		安卓功耗 Android power consumption	< 65 W
电脑功耗 Computer power consumption	<95W		

2.5 工作环境 Working environment

使用环境 Use environment	0℃-50℃
工作湿度 Working humidity	20%-85%
贮存温度 Storage temperature	-20℃-60℃
贮存湿度 Storage humidity	20%-85%



2.6 一体机配置（触显无此参数）

Fusioncube configuration (This parameter is not displayed)

方案 option	触摸显示器 Touch display	Android 安卓	X86 标准版 Standard EDITION	X86 精英版 Elite Edition	X86 豪华版 The Deluxe Edition	客户 定制
芯片 chip	需 外 接 主 机, 详细 参 数参考 3.1 An external host must be connected. For details, see 3.1	四核 RK3288 六核 RK3399 Quad-core RK3288 Six core RK3399	默认: 英特尔 赛扬四核 J1900 Default: Intel Celeron quad-core J1900	工控主板 (I3、I5、I7) Industrial control main board (I3, I5, I7)	H110 主板 独立 CPU: (I3、I5、I7) H110 motherboard Independent CPU: (I3, I5, I7)	按 客 户 实 际 需 求 定 制
内存 Internal memory		2G/4G	2G/4G/8G/16G			
硬盘 Hard disk		标配 8G, 可 选 16/32G, 另可扩展 8G standard, 16/32G optional, expandable	SSD 固态硬盘 Solid-state drive (SSD): 32G/64G/128G/256G/512G 机械硬盘 Mechanical hard disk: 500G/1T			
显卡 Graphics card		Android HD	核显 Nuclear display		可选独立显卡 Optional independent graphics card	
清晰度 articulation		720P/1080P				
操作系统 Operating system		版本 7.1.12 内核 4.4.71 Version7.1.12 Kernel4.4.71	多点触摸: Win 7/ Win 8/Win 10/ Linux 默认 Win 7 系统 Multi-touch: Win 7/ Win 8/Win 10/ Linux The default Windows 7 system			
网卡 Network card	集成 10/100/1000M 自适应网卡, 无线网卡 802.11a/b/g/n Integrated 10/100/1000M adaptive network card, wireless network card 802.11a/b/g/n					
输入电源 Input power supply	110-240V AC 50/60Hz					

3.1 触摸显示器接口参数 Touch display interface parameters

DC 接口 DC interface	1	音频接口 Audio interface	1
VGA 输入 (15 针 D-Sub) VGA input (15-pin D-Sub)	1	HDMI 输入 HDMI input	1
USB 触摸接口 USB touch interface	1		



3.2 安卓一体机接口参数 Android interface parameters

DC 接口 DC interface	1	耳麦接口 Headset interface	1
RJ45 网线接口 RJ45 cable port	1	HDMI 接口 HDMI interface	1
USB 接口(含 OTG) USB interface (including OTG)	2	WIFI 天线接口 WIFI antenna interface	1
TF /SD 卡槽 TF /SD card slot	1	根据需求可选配 485/232 串口 485/232 serial port is available as required	

3.3 Windows 一体机接口参数 Windows interface parameters

DC 接口 DC interface	1	RJ45 网线接口 RJ45 cable port	1
VGA 输出(15 针 D-Sub) VGA output (15-pin D-Sub)	1	HDMI 输出接口 HDMI output interface	1
USB 接口 USB interface	2	耳机/MIC 接口 Earphone /MIC interface	1/1
WIFI 天线接口 WIFI antenna interface	1	根据需求可选配 485/232 串口 (2-6 个) 485/232 serial ports (2-6) available on demand	

3.4 产品配件 Product accessories

产品说明书 Product specification	1 份 1 part
AC 电源线 AC power cable	1 条 1 piece of
电源适配器 Power adapter	1 套 1 set
保修卡 Warranty card	1 套 1 set
合格证 Certificate of conformity	1 套 1 set
HDMI/USB 线 HDMI/USB cable	各 1 条 (标配 1.5 米, 仅触显标配) 1 piece each (standard 1.5m, only touch display standard)
WIFI 天线头 WIFI antenna head	1 个 (仅安卓标配) 1 (standard only)
产品说明书 Product specification	1 份 1 part

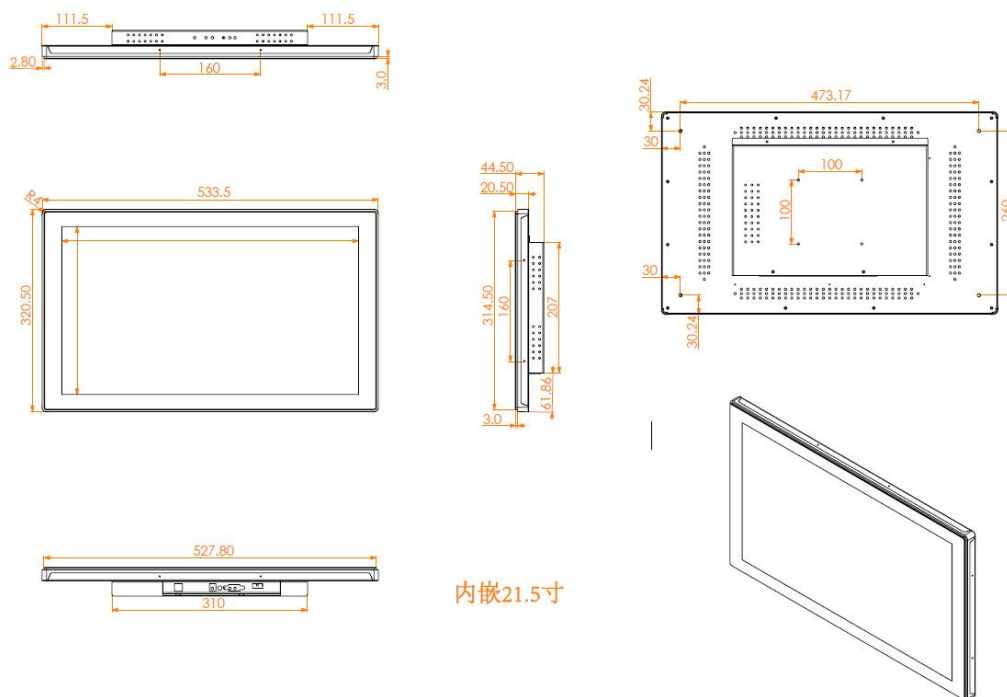
4.1 物理规格 Physical specification

屏幕 Screen	21.5 寸
开孔尺寸 Opening size	527.8*314.5*3mm
主机尺寸 Main engine size	533.5*320.5*44.5mm
壁挂尺寸	100*100mm



Wall mounting dimension	
壁挂螺丝规格 Wall mounting screws specifications	M4
包装尺寸 Package size	620*130*455mm
毛重 Gross weight	

4.2 整机结构图 Machine structure drawing



5.1 产品六视图 Machine structure drawing



5.2 产品细节图 Product detail drawing

6. 安全警告 Product detail drawing

1. 该产品属于精密电子设备，正面 IP65，整体防护等级为 IPX3，应注意避免水溅雨淋；
2. 不可将设备放置在潮湿的环境中，户外的设备需要增加防潮罩，下雨、结露时需要做好防护，避免水雾进入机器和玻璃发霉。潮湿的使用环境会加快电子元器件的快速老化，从而降低本产品的使用寿命，造成部件受潮损坏；
3. 不可将设备长时间放置紫外线较强和太阳直射环境下。气温高于 50℃时，紫外线和高温照射屏幕会加速液晶分子的偏转，屏幕会加速老化，当室外温度高于 50℃时搬到室内或进行遮阳处理；
4. 产品亮度不低于 200cd/m²，在环境亮度高的情况下，屏幕显示会不清晰，请避免在太阳光强烈时放在室外；



5. 气温低于-10℃时，由于液晶分子偏转受到影响，屏幕可能无法正常工作，不建议低于-10使用；

1. The product belongs to the precision electronic equipment, the front IP65, the overall protection level is IPX3, should pay attention to avoid water splashing rain;

2. Do not place the device in a humid environment. Add a moisture-proof cover to the outdoor device. Protect the device against rain and dew to prevent water mist from entering the machine and glass from mildew. Wet use environment will accelerate the rapid aging of electronic components, thereby reducing the service life of the product, resulting in parts damaged by moisture;

3. Do not place the device in an environment with strong ultraviolet light and direct sunlight for a long time. When the temperature is higher than 50 ° C, ultraviolet and high temperature irradiation of the screen will accelerate the deflection of liquid crystal molecules, and the screen will accelerate aging. When the outdoor temperature is higher than 50 ° C, it will be moved indoors or sunshade treatment.

4. The brightness of the product is not less than 200cd/m², in the case of high ambient brightness, the screen display will not be clear, please avoid being placed outdoors when the sun is strong;

5. When the temperature is lower than -10 ° C, the screen may not work properly due to the influence of the liquid crystal molecule deflection, and it is not recommended to use below -10;

●本产品建议使用的的环境温度为 0-50℃，湿度为 20%-85%。

The recommended ambient temperature of this product is 0-50 ° C and the humidity is 20%-85%.

温馨提示：数据电子工程师依据产品结构设计尺寸编写，由产品不断更新升级，如有差异，请以实物为准！

Tips: Data electronics engineers write according to the design size of the product structure, and are constantly updated and upgraded by the product. If there is any difference, please refer to the actual object!