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SPECIFICATIONS OF 31.5 ” FULL-COLOR E-PAPER BILLBOARD

31.5 寸彩色墨水屏广告牌产品规格书

MODEL: S315E6



☒ **兴泰确认 Seekink' s Confirmation**

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版本更新 Revision History

Version 版本号	Time 时间	Prepared 编制	Description 更新说明
V1.0	2024-11	宋昀轩	/
V1.1	2024-12	宋昀轩	修改功耗&续航参数
V1.2	2025-02	宋昀轩	新增指示灯说明
V1.3	2025-04	宋昀轩	新增 客户验收标准

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1. 产品介绍 Product Description

1.1. 产品概述 Overview

- 31.5 寸彩色墨水屏广告牌采用先进的 EInk Spectra 6 彩色电子纸显示技术，可选择木纹框设计或钣金设计，这一系列产品拥有不同的屏幕尺寸（13.3 寸、25.3 寸、31.5 寸），满足不同场所和需求的广告展示。The wall-mounted advertising device series S315E6 utilizes advanced E Ink Spectra 6 color ePaper display technology. This series of products have different screen sizes (13.3", 25.3" & 31.5 ") to meet the needs of different places and display targets.
- **特点一：引人注目的色彩表现：**全彩高分辨率的电子纸新技术，其卓越的色彩表现能有效吸引顾客的目光，从而提高销售转化率。 **Catchy Color, Displaying Performance:** Distinguished visual effect with high resolution brought by color E-paper technology, can efficiently attract consumers, thus improving the conversion rate.
- **特点二：便捷的内容更新管理：**可实时更新广告和产品信息。这种灵活性能迅速响应市场变化，保持展示内容的新鲜感，提升顾客的购买欲望。 **Easy Content Management:** The flexibility brought by real-time update advertising and product information is able to rapidly response to market changes, keeping displayed contents showy, and promote consumers to purchase.
- **特点三：整体成本降低电子纸：**在静态展示时几乎不消耗电力，减少了电力支出。其耐用的设计和较少的维护需求使得长期运营成本显著降低，有助于零售商实现更高的经济效益。 **Reduction on Total Cost:** E-paper screen does not consume power when staying static , decreasing the power output. Therefore, its durable design and less maintaining need make the cost on long-term operation remarkably lower, also an oxidizer of realizing higher economic benefits for retailers or brands.
- **特点四：安装简单免接电：**不需要电源，没有复杂的布线和设备配置。多种尺寸选择，可以轻松地将产品挂在墙上或放置在任何位置。 **Ready-to-use Installation:** E-paper billboards in multiple sizes require no power supply and have no installation requirement on complex cables, allowing itself to be easily wall-mounted or placed at any position for promotion or advertising.

1.2. 外观组件说明 Individual View & Components

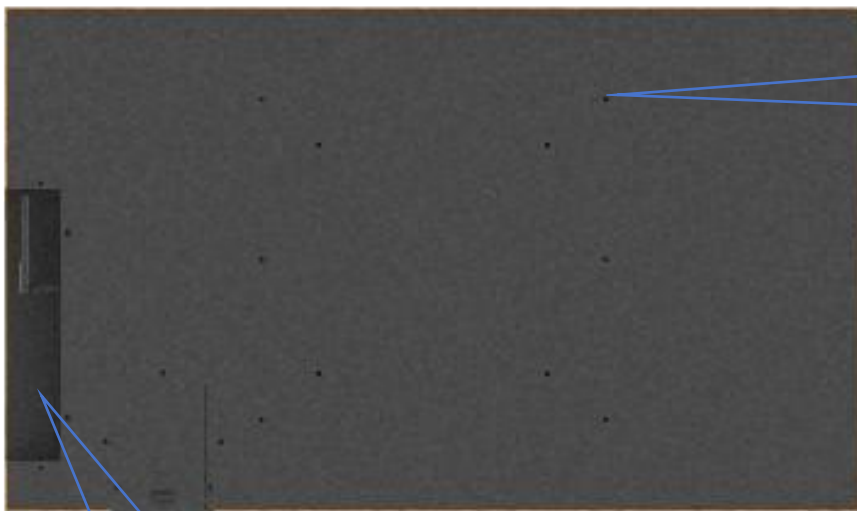
1.2.1. 正视图 Front view



木纹水转印外壳
(Wood Grain)

显示区域
Display Viewing
Area

1.2.2. 后视图 Back View



机器壁挂采用
M4*10 螺丝
fixed M4 screws

I/O 端口

1.2.3. 侧视图 Side View



(左侧边 left side)



(右侧边 left side)

2. I/O 端口说明 Port Description

2.1. 功能接口说明 Description of Internal Port Functions

- USB2.0 接口，用于 U 盘更新图片，同时也支持 U 盘软件升级。 USB2.0 port for inserting a USB flash drive and update image.
- WIFI 天线连接，连接天线棒用于连接 2.4G WIFI 信号。 WIFI antenna connection, connect the antenna bar for connecting 2.4G WIFI signal.
- 4G- 机器连接 4G 时需要连接 4G 天线用于接收 4G 信号。 4G - When the machine is connected to 4G, a 4G antenna needs to be connected for receiving 4G signals.
- LED--工作指示灯提示。 LED - work indicator light prompts.
- Type-c(PD)充电接口，用于连接外部 Type-c 接口的充电器。标准 PD65W。 Type-c (PD) charging port for connecting an external Type-c port charger. Typical PD65W.

2.2. 按键功能介绍 Functions of Buttons

2.2.1. DOWN

- 在机器工作刷图过程中，轻按一下下一页切换到下一张图片显示，系统中需要含有 2 张或者 2 张以上图片才可以起作用。In the process of the machine working to brush the picture, lightly press the next page to switch to the next picture display, the system needs to contain 2 or more pictures to be able to work.

2.2.2. UP

- 在机器工作刷图过程中，轻按一下上一页切换到下一张图片显示，系统中需要含有 2 张或者 2 张以上图片才可以起作用。In the process of the machine working to brush the picture, lightly press the previous page to switch to the next picture display, the system needs to contain 2 or more pictures to work.
- 长按 3 秒以上到 10 秒之间松开进入配网模式界面，操作进入配网界面。Press and hold for more than 3 seconds to release between 10 seconds to enter the distribution mode interface, and operate to enter the distribution interface.

2.2.3. RESET

- 轻按一下可对机器进行系统复位断电。Tap to power down the machine with a system reset.

2.2.4. POWER

- 轻按一下此按键可对一体机进行开机和关机。Tap this button to turn the MFP on and off.

3. LED 指示灯说明 LED Indicator Description

3.1. 充电状态指示 Charging status indication

- 当设备关机并连接外部充电器充电时，电源板上的红灯将常亮，表示正在充电。When the device is powered off and connected to an external charger, the red light on the power board will remain on constantly to indicate charging status.
- 充电完成后，电源板上的绿灯将常亮，表示电池已充满。When charging is complete, the green light on the power board will remain on constantly to indicate that the battery is fully charged.

3.2. 开机状态指示 Power-on status indication

- 开机过程中，绿灯将持续缓慢闪烁 30 秒，随后关闭。During the power-on process, the green light will flash slowly for 30 seconds and then turn off.
- 开机后电量大于 20%时，电源板蓝灯缓慢闪烁。After power-on, when the battery level is above 20%, the blue light on the power board will flash slowly.

3.3. 电量监测指示 Power monitoring indication

- 当电池电量 $\leq 20\%$ 时，电源板红灯将缓慢闪烁，提示用户注意电量状况。When the battery level is less than or equal to 20%, the red light on the power board will flash slowly to alert the user about the power status.
- 一旦电量 $\leq 10\%$ ，系统将在刷图过程中通过提示信息告知用户电量不足的状态。Once the battery drops to 10% or below, the system will inform the user of the low battery status through an alert message during the swiping process.
- 当电量耗尽 $\leq 5\%$ 时，设备将在刷图完成后自动关机，以保护电池和设备。When the power is depleted to 5%, the device will automatically shut down after the swipe is complete to protect the battery and device.

3.4. 刷图状态指示 Image processing status indication

- 刷图过程中，ESP32 主板绿灯常亮。During image processing, the green light on the ESP32 board remains constantly on.
- 刷图完成后，ESP32 主板绿灯转为缓慢闪烁。After image processing is complete, the green light on the ESP32 board changes to slow blinking..

3.5. 休眠模式指示 Sleep mode indication

- 开机后 30 秒内无刷图操作或刷图完成后, 设备将进入休眠模式。The device will enter sleep mode if no image processing occurs within 30 seconds after power-on or after image processing is complete.
- 休眠状态下, ESP32 主板绿灯每 3 秒将缓慢闪烁一次。In sleep mode, the green light on the ESP32 board will blink slowly once every three seconds.

3.6. 按键指示 Button indication

- 按键操作时 (轻按或长按), 按键灯亮起; 松开按键后, 按键灯熄灭。During button operation (short press or long press), the button light turns on; after releasing the button, the button light turns off.

4. 产品规格 Product Specifications

机型名称 Model Name: S315E6		
模组参数 Module parameters	尺寸 Display Size(diagonal)	31 . 5"
	面板类型 Display Type	电子纸墨水屏 E Ink Spectra 6
	色彩 Color	红 , 黄 , 蓝 , 白 , 绿 , 黑 Red, Yellow, Blue, White, Green, Black
	可视区域尺寸 Display Viewing Area(H*V) (mm)	696 .32* 391 .68mm
	分辨率 Resolution	2560* 1440
	长宽比 Aspect Ratio	16:9
	DPI	93
系统 System	整机系统 System	RT OS
外部接口 I/O	USB2 .0	1X
	4G	支持 (选配) Optional
	WIFI	2 .4GHZ WIFI(802 . 11 b/g/ n
	KEY (4 键按键)	POWER , UP , DOWN , RESET
整机结构 Structure	壁挂规格 VESA Mount	标准 VESA 孔 , 200*200mm , 采用 M5 的固定螺丝 Standard VESA holes , 200*200mm, fixed M4 screws
	外壳材质 Shell Material	钣金水转印 (木纹色) Wood Grain Metal
电源 Power	充电接口 Power adapter	65W(带 Type-cPD 协议) Type-C PD Adapter(Optional)
	外置插拔式锂电池 Battery	插拔式锂电池 容量 : 50 .4W/ H 16 . 8V/ 3500MAH , 已通过 UN38 .3 , MSDS , 空运 , 海运鉴定认证。 Plugged-in Lithium Battery: 50.4W/H 16.8V/3500MAH
	整机功率 (刷图时) Working Power(Updating)	4.35W
	整机功率 (待机时) Standby Power(Standby)	0 . 015W
	关机功率 Shutdown Power	0 . 0015W
续航 Life Cycle	续航次数 Updating Times	2200 次
	续航时间 Battery Life	一天刷新 1 次可持续续航 31 个月 (Wi-Fi 关闭) ; 一天刷新 1 次可持续续航 4.6 个月 (Wi-Fi 常开) ; 31 months (1 time per day) (when Wi-Fi is off) 4.6 months (1 time per day) (when Wi-Fi is on)
刷图 Update	刷图时间 Update Time	15s
	刷图方式 Update Method	U 盘更新刷图 , 云平台更新 , APP 更新刷图 Via USB flash disk; Cloud platform & Android demo App
机器外形及重量 Dimensions & Weight	整机外形尺 Product Dimensions	747mm*442mm* 34 . 5mm
	包装尺寸 Packing Dimensions	843* 151* 590mm
	净重 Net Weight	8 . 35KG
	毛重 Gross Weight	9 . 7KG
温湿度 Temperature & Humidity	储存温度 Storage Temperature	Ongoing
	工作温度 Working Temperature	Ongoing
	湿度 Humidity	Ongoing

5. 电池&电气参数 Battery & Electrical Parameters

电池参数 Battery parameters	
型号 Model	SZNY18650-4S-插拔式电池
容量 Puantitative	50.4W/H
标称电压 Nominal voltage	14.4V
充满电压 Full voltage	16.8V
满放电压 Full discharge voltage	10.8V

电气参数 Electrical parameters	
电源适配器供电范围 Adapter Power Supply Range	DC15V-DC21V
输入额定电压 Input Rated Voltage	DC14.4V
刷屏平均电流 Average Current of Updating Screen	290mA
峰值电流 Peak Current	4.5A
单次刷屏时间 Single Updating Time	15s
待机电流 Standby Current	100uA
注:在拆掉电池的情况下, 电源适配器需要支持 PD 协议, 整机才能正常工作。 Note:With the battery removed, the power adapter needs to support the PD protocol for the whole machine to work properly.	

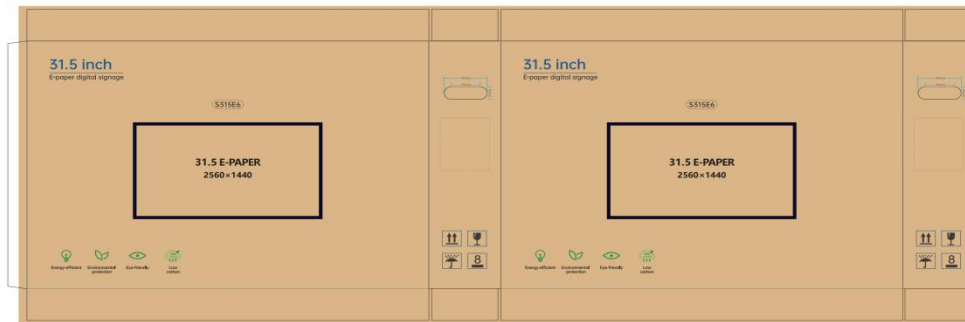
6. 包装说明 Packing instructions

6.1. 包装说明 Packing instructions

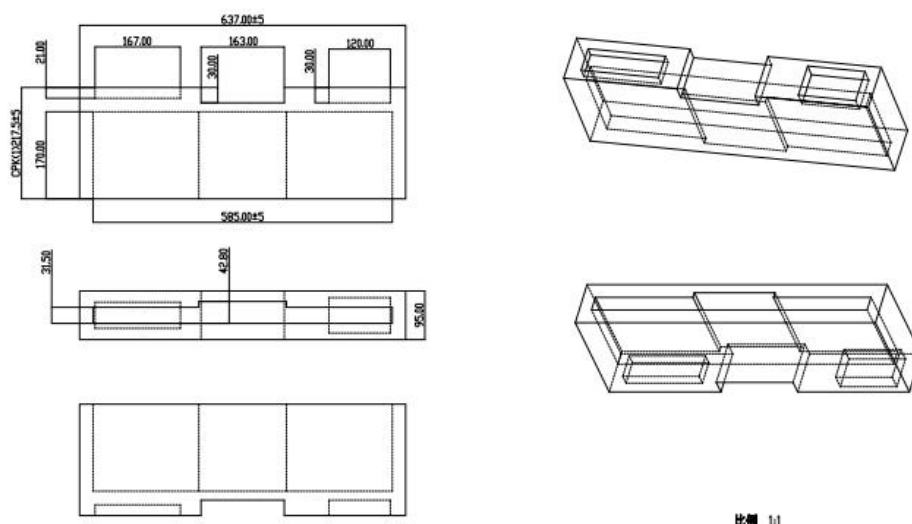
	标准 Standard
包装说明 Packing instructions	单台机器包装均带有独立的包装袋。一体机单独放入包装袋中，并把封口用透明胶粘好。 Individual machines are packaged with individual bags. The all-in-one machine is placed in a separate bag and the closure is glued with transparent adhesive.
	机器上带有壁挂件，把壁挂件跟机器用螺丝锁在一起。The machine comes with a wall mount, which is screwed to the machine.
	包装珍珠棉分上珍珠棉和下珍珠棉二种规格。Packaging pearl cotton is divided into upper pearl cotton and lower pearl cotton two specifications.
	上珍珠棉上方有三个空格子，分边放置附件盒，插拔式电池，和充电器。 There are three compartments above the upper perlite that hold the accessory box, plug-in battery, and charger on separate sides.
	附件盒为中性纸盒，里面放置有，外置天线棒，插拔式电池固定螺丝，挂墙螺钉等资料。 The accessory box is a neutral carton, which contains the external antenna bar, plug-in battery fixing screws, wall screws and other materials.
	插拔式电池独立的袋子+独立的纸盒包装，放在上珍珠棉的中间区域。 The plug-in battery is packed in a separate bag + separate carton, placed in the middle area of the upper pearl foam.
	纸箱规格要与BOM一致，产线要检验纸箱的来料规格。 Carton specifications should be consistent with the BOM, the production line to check the incoming specifications of cartons.
	纸箱不能出现破损，脏污情况。 The carton should not be torn or dirty.
	纸箱印刷内容，产线要检验，确保与封样一致。 Carton printing content, the production line to check to ensure consistency with the sealing sample.
	纸箱印刷色差、重叠、模糊等问题，产线要检验并筛出。 Carton printing color difference, overlap, blurring and other problems, the production line to inspect and screen out.
运输包装说明 Transportation Packaging	包装内外箱贴标的位置要统一，整齐有序，干净整洁。 Packaging inside and outside the box labeling location should be uniform, neat and orderly, clean and tidy.
	海外批量发货采用栈板发货，用拉伸膜缠好。栈板运输不能堆叠，不能2层或多层栈板垒落。 Overseas bulk shipments are shipped on pallets, wrapped in stretch film. Pallet transportation can not be stacked, not 2 or more layers of pallet base fall.

6.2. 外纸箱说明 Packaging Introduction

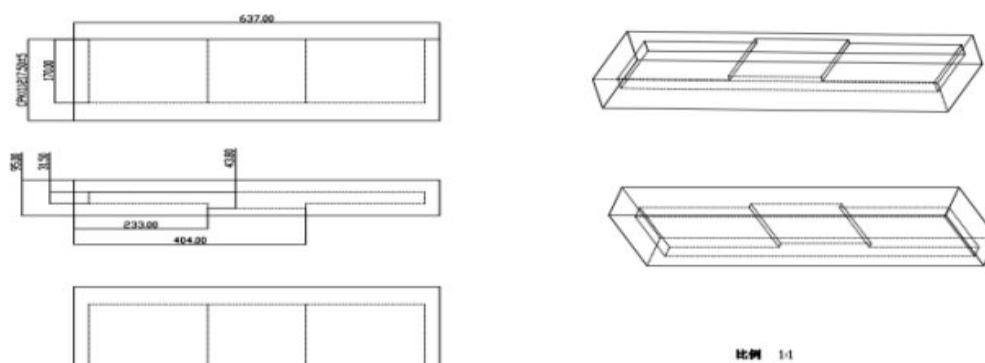
6.2.1. 包装珍珠棉说明 (EPE 材料设计) Packaging EPE Foam Description



●上珍珠棉: Upper Pearl Cotton



●下珍珠棉: Lower Pearl Cotton



7. 注意事项说明 Cautions

7.1. 运输注意事项 Transport Precautions

- 运输过程中注意防水导致一体机损坏； Pay attention to waterproofing during transportation leading to damage to the all-in-one machine ;
- 运输过程中注意不要挤压一体机，以防止屏幕损坏； Be careful not to squeeze the all-in-one during transportation to prevent screen damage;
- 运输过程中注意环境温度不要超过 50°C和低于 0°C； Take care that the ambient temperature does not exceed 50°C and fall below 0°C during transportation;
- 运输过程中注意不可 2 层或多层栈板垒落，不可被重物挤压。 During transportation, be careful not to drop 2 or more layers of pallets and not to be squeezed by heavy objects.

7.2. 使用注意事项说明 Precautions for Using

- 一体机使用环境，环境温度控制在 0°C -50°C； The environment in which the all-in-one machine is used, the ambient temperature is controlled at 0°C-50°C;
- 定期清洁屏幕，保证一体机干净整洁； Clean the screen regularly to ensure that the MFP is clean and tidy;
- 请勿私自拆开一体机； Do not disassemble the All-in-One privately;
- 使用过程中注意防水； Pay attention to waterproofing during use;
- 使用过程中注意防撞； Be careful to prevent collisions during use.

7.3. 存储注意事项 Storage Precautions

- 存储环境要防火、防潮（湿度不得高于 90%）、防高温（温度不得高于 50°C）、防积压、防脏污、防重物挤压、防破损； The storage environment should be fireproof, moisture-proof (humidity should not be higher than 90%), high-temperature-proof (temperature should not be higher than 50 °C), anti-accumulation, anti-dirty, anti-heavy extrusion, and anti-damage;
- 存储环境不得低于 0°C，否则易造成失效。 The storage environment should not be lower than 0°C, otherwise it is easy to cause failure.

7.4. 客户验收标准 Customer Acceptance Standard

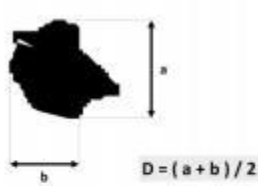
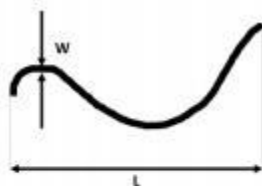
7.4.1 外观缺陷及其分类 Cosmetic Defects and Classification

- 除非得到SEEKINK的书面另行约定，外观缺陷特指以下列出的项目。

Unless otherwise agreed by SEEKINK in writing, the cosmetic defects solely mean the items listed below.

Item	Causes	Criteria	A Zone	B Zone	C Zone
Spot	Spot in module. Spot Size = D	$D \leq 0.65\text{mm}$	Ignore	Ignore	Ignore
	Spot in module. Spot Size = D	$0.65\text{ mm} < D \leq 1\text{ mm}$	≤ 4	Ignore	Ignore
	Spot in module. Spot Size = D	$D > 1.0\text{ mm}$	0	Ignore	Ignore
Scratch or Line defect	Scratch on module. Length = L Width = W	$L \leq 2.0\text{ mm}$ $W \leq 0.2\text{ mm}$	Ignore	Ignore	Ignore
	Scratch on module. Length = L Width = W	$2.0\text{ mm} < L \leq 10\text{mm}$ $0.2\text{ mm} < W \leq 0.5\text{ mm}$	≤ 8	Ignore	Ignore
	Scratch on module. Length = L Width = W	$L > 10\text{ mm}$ $W > 0.5\text{ mm}$	0	Ignore	Ignore
Air bubble	Air bubble Aggregate of small air major axis = D1 Big air bubble major axis = D2	$D1, D2 \leq 0.5\text{ mm}$	Ignore	Ignore	Ignore
	Air bubble Aggregate of small air major axis = D1 Big air bubble major axis = D2	$0.5\text{ mm} \leq D1, D2 \leq 1.5\text{ mm}$ spacing > 40mm	≤ 4	Ignore	Ignore
	Air bubble Aggregate of small air major axis = D1 Big air bubble major axis = D2	$D1, D2 > 1.5\text{ mm}$	0	Ignore	Ignore

- 备注 Remarks:



Aggregate of small air



Big air bubble



- 1、Back plant cosmetic is neglectable.

2、斑点定义：仅测试模式下可见的缺陷。

Spot define: That only can be seen under test pattern.

3、所有缺陷必须通过光学显微镜（OM）进行判定。

Any defects must be judged by OM.

4、斑点与划痕/线缺陷定义：

Here is definition of the "Spot" and "Scratch or line defect" .

Spot: $W > 1/4L$

Scratch or line defect: $W \leq 1/4L$

5、缺陷的长宽比（缺陷长度 L 与宽度 W 的比值）与主轴长度（最大延伸方向尺寸） Definition for L/W and D (major axis)