



**28 inch
Color E-paper Signage
DMPH280EG1**



Dalin Good Display Co., Ltd.

Product Specifications



Customer	Standard
Description	28" COLOR E-PAPER SIGNAGE
Model Name	DMPH280EG1
Date	2024/05/08
Revision	1.0

	Design Engineering		
	Approval	Check	Design
			

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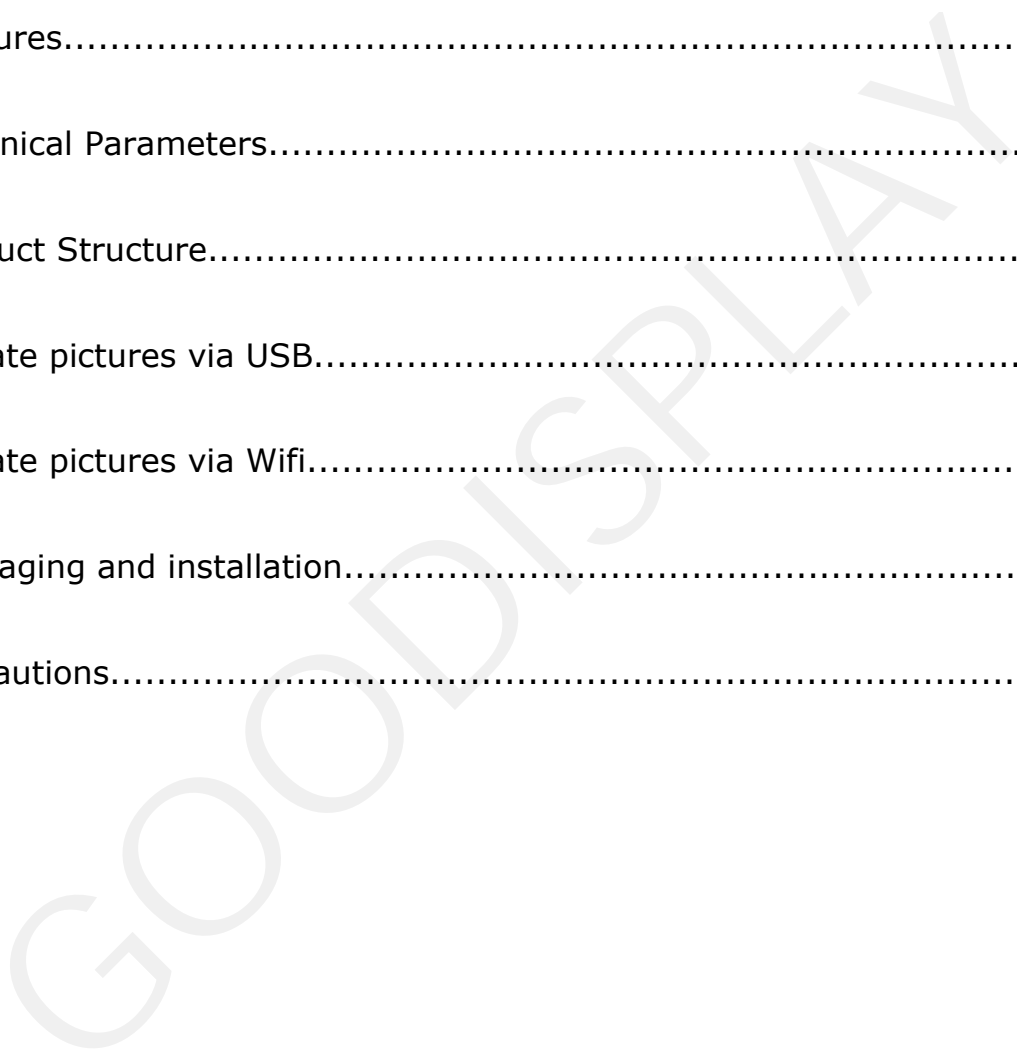
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1. Overview

The 28-inch color E Ink screen sign utilizes the ACeP technology, presenting a display quality unmatched by other display technologies, resembling the texture of printed posters and creating an elegant atmosphere. Utilizing remote wireless transmission to update content saves on manpower deployment and printing costs, with continuous display without power consumption enhancing operational efficiency and significantly reducing resource consumption, while also combining intelligent features with environmental benefits. The E Ink screen does not require an additional floor-mounted power supply system, is not limited by power lines, and can be moved to any desired location at any time, offering high mobility. It achieves effective short-term promotional effects in any communication space, making it an ideal alternative to traditional paper advertising posters. Its long-term use significantly saves on electricity costs, enhances benefits.

2. Features

Ultra-wide viewing angle, ultra-low power consumption

Bi-stable display (last image displayed even after power outage)

Display can be updated via USB or WiFi (USB priority)

Image requirements: BMP, PNG, JPG

3. Parameters

Item	DMPH280EG1
E Ink Display	Size: 28 inch Type: ACeP color ePaper Resolution: 3840x1080
Port	USB2.0: One route HOST, One route OTG HDMI-OUT: 1 route RJ45: 1 route, 10M/100M adaptive TF: Reserved (maximum expansion 128G) KEY: POWER, UP, DOWN, RESET

Power consumption	Power Supply: 5V Type-C Interface Refresh Power: $\leq 18W$ Standby Power: $\leq 0.01W$ Built-in Battery: Lithium Battery
Software	Image Update Interval: 30s Image Update Method: USB or WiFi update Language: Sync phone language
Motherboard	WiFi Frequency Band: 2.4GHz Bluetooth: 4.0 (Bluetooth update of images not supported at the moment) System: Android 7.1 CPU: Quad-core ARM Cortex A7 DDR: 1G EMMC: 8G
Specifications	Weight: about 3.5kg Overall dimensions: 709x218x26mm
Temperature and humidity	Operating Temperature: 15°C~35°C Storage Temperature: -25°C~50°C Operating Humidity: 35%~80%

4. Structure



Figure 1: Front View of DMPH280EG1

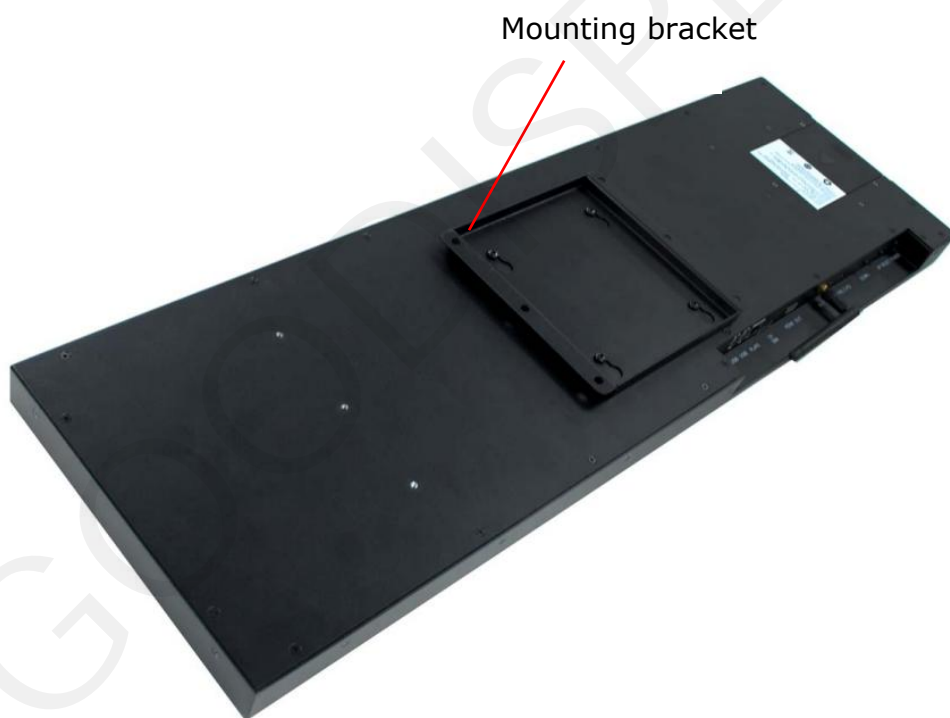


Figure 2: Rear View of DMPH280EG1

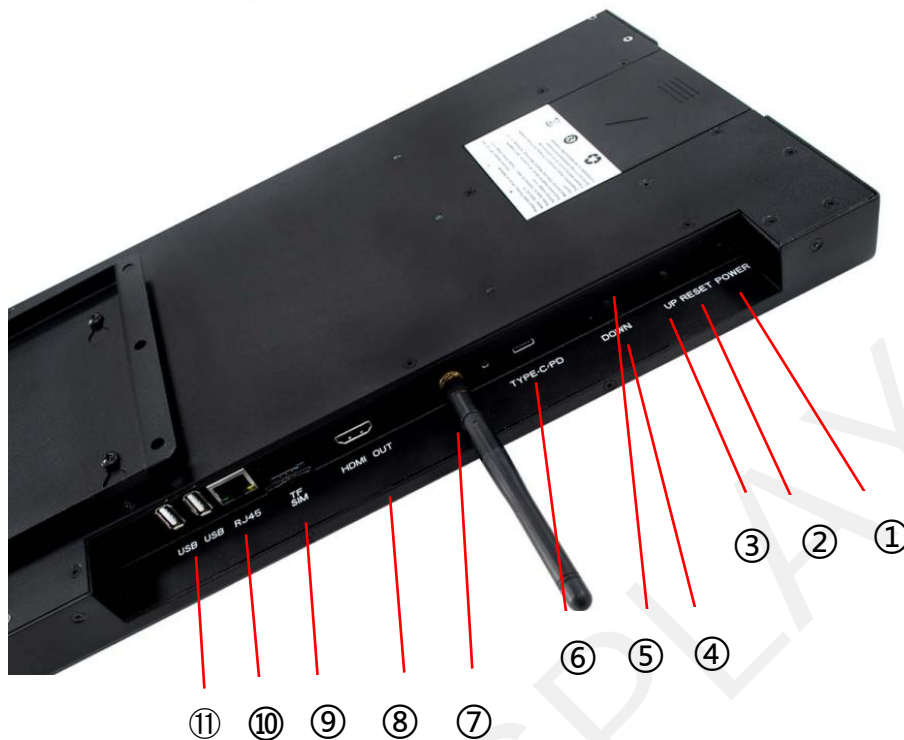


Figure 3: Side View of DMPH280EG1

① Power Button

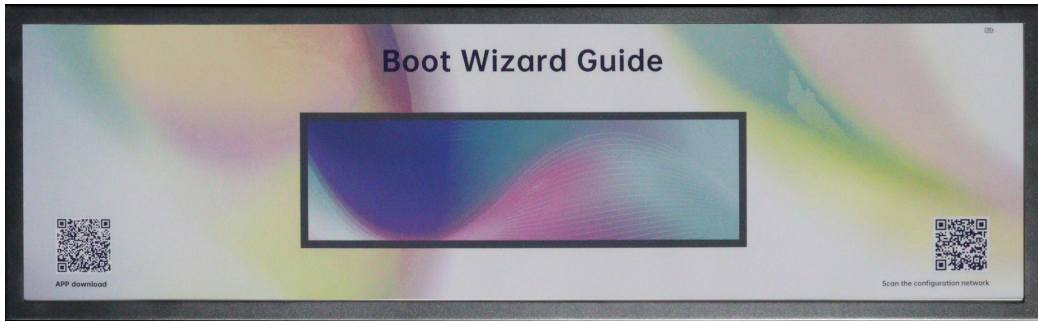
Turn the main power on or off. Pressing the power button briefly will start the sign, and the LED light will illuminate; pressing the power button again will turn off the sign, and the LED light will go off.

② RESET Button

Press lightly to reset the system of the sign.

③ UP Button

- During the process of updating images on the sign, press once to switch to the next displayed image. The system must have at least two images saved.
- Press and hold for 3 to 10 seconds, then release to display the current network configuration guide interface. Scan the QR code on the left side with your phone to download the app. After downloading and installing the app, scan the QR code on the right side to connect to the wireless router.



Press and hold for more than 10s and then release to toggle the front light on or off.

④ **DOWN Button**

- Press lightly to switch to the next displayed image. The system must have at least two images saved.
- Press and hold for 3 to 10 seconds, then release to view system status information.



⑤ **LED Light**

- After the sign is powered on, the indicator light will breathe continuously with a 2-second interval.
- When the sign is turned off and charging, the indicator light will be on continuously. After the battery is fully charged, the indicator light will continue to breathe with a 2-second interval.
- When the sign is powered on and charging, the indicator light will breathe with a 2-second interval.
- When the sign is turned off and the charger is unplugged, the indicator light will go off.

⑥ **Type-C Charging Port**

Insert the power adapter into the Type-C port.

⑦ **WiFi Antenna Port**

Connect the WiFi antenna stick.

⑧ **HDMI-OUT**

Internal HDMI signal output.

⑨ **Storage Card Slot**

Insert a Micro SD card.

⑩ **Network Interface**

Insert a wired network connection.

⑪ **USB2.0 and OTG Ports**

Used for USB functions and mainboard debugging, firmware upgrades.







5. USB Image Update

5.1. Image Requirements

1. Formats: BMP, PNG, JPG.
2. Resolution: Supports 3840x1080.

5.2. Image Processing

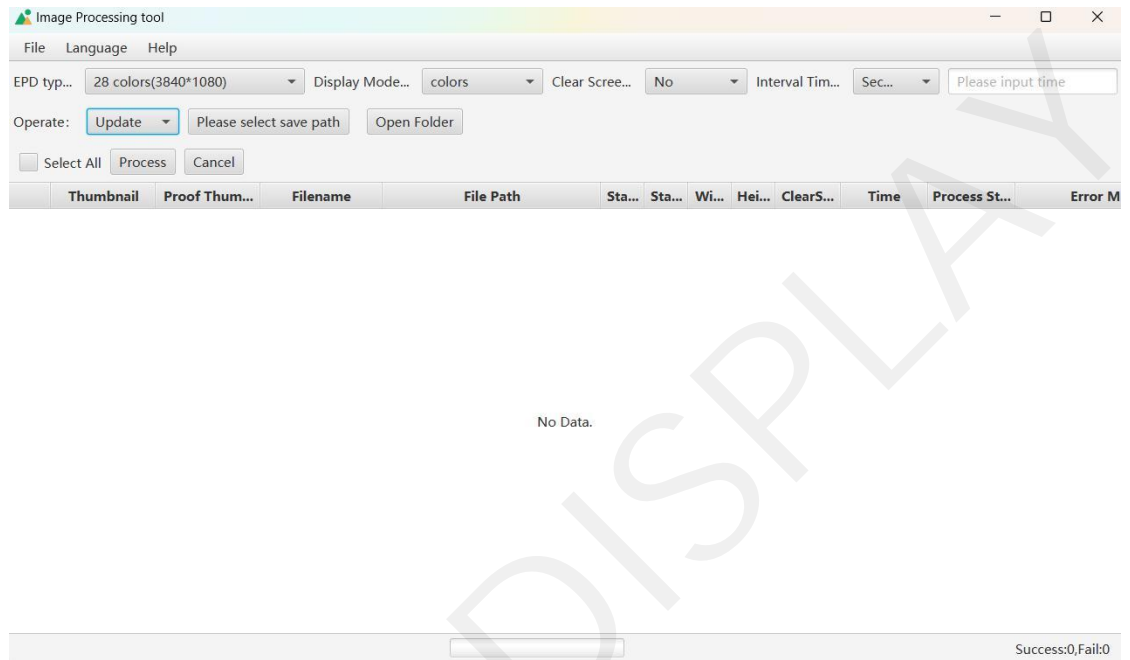
1. Install the image conversion tool xtacepSetup-V2.5.3.exe. Typically installed on drive D of the computer. After installation, a folder named "XT Picture Processing Tool" will appear in drive D. Enter this folder to find the files below.

 ACEP	2023/11/3 16:40
 jre1.8.0_161	2023/11/3 16:40
 Log	2023/9/1 18:14
 unins000.dat	2023/11/3 16:40
 unins000.exe	2023/11/3 16:39
 xtacep.exe	2023/10/25 16:04

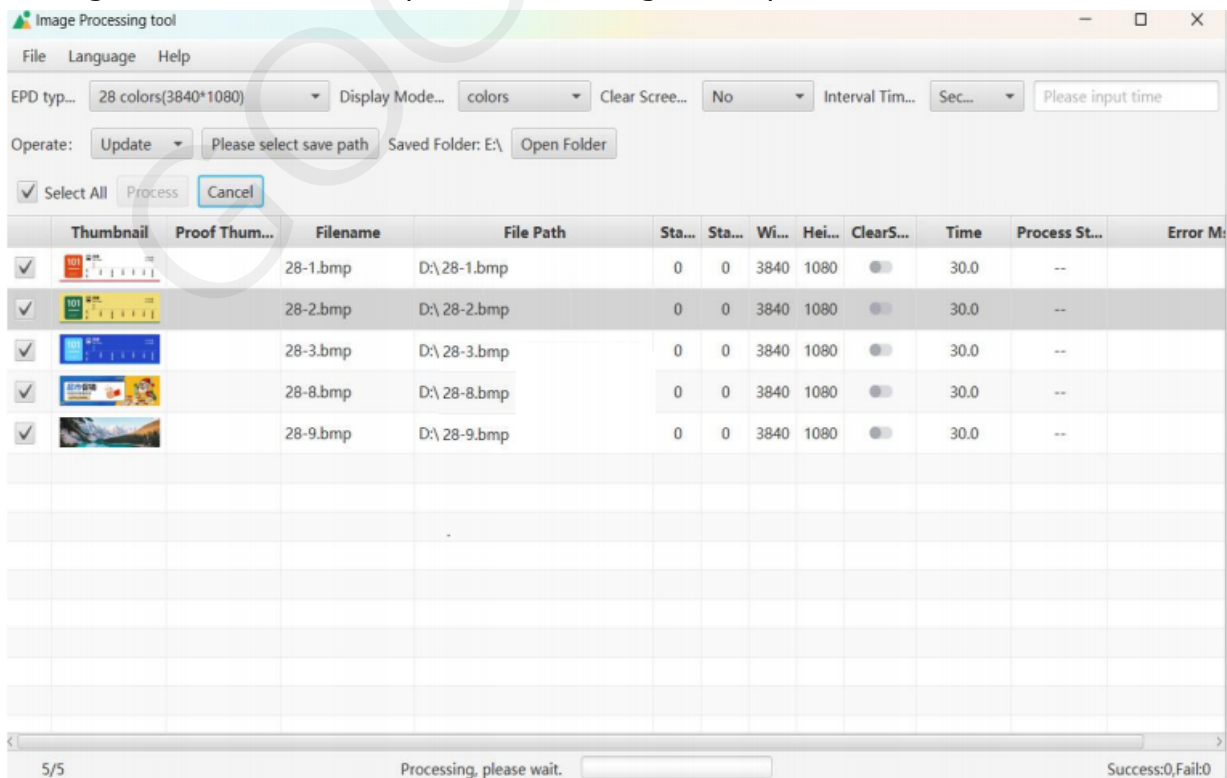
2. Place the images that need to be updated on drive D and save them in a newly created folder. Ensure that there are no spaces in the image path or filenames.



3. Open the installed xtacep.exe software



4. Click on 'File' in the upper left corner, then load the folder containing the images that need to be updated according to the path.

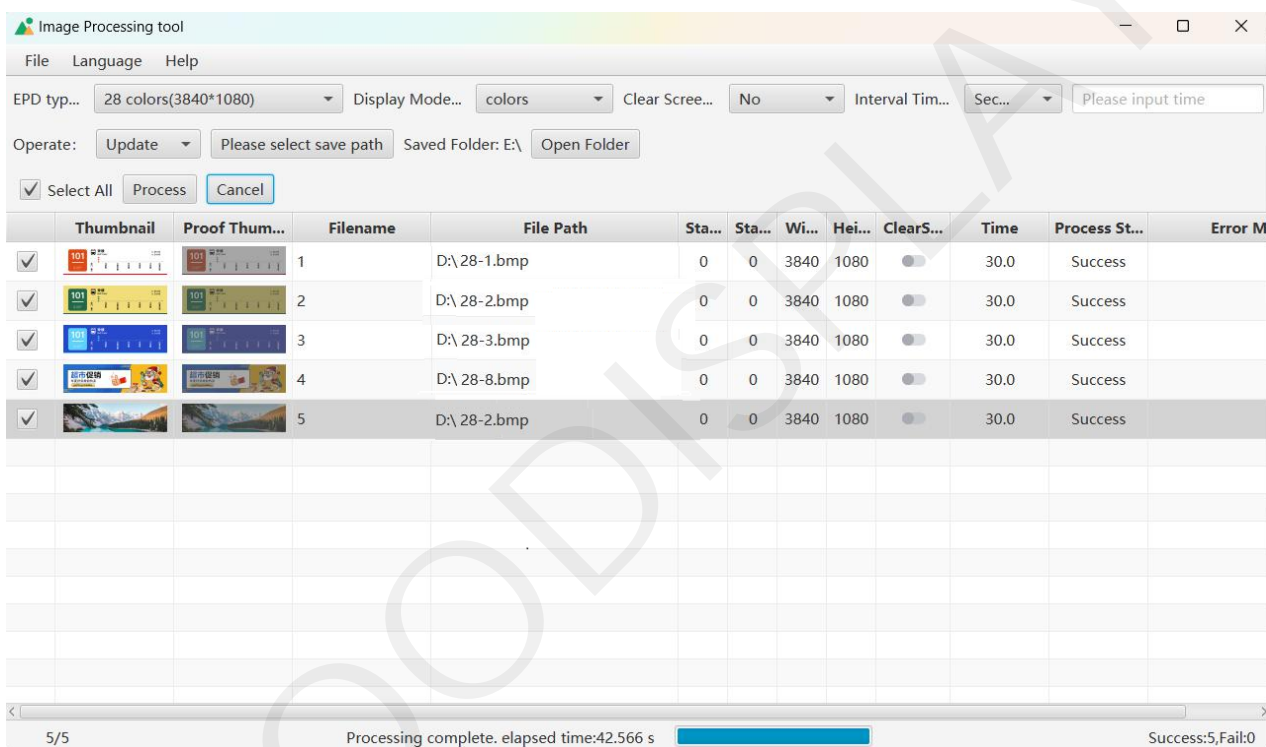


5. Image Resource Package Parameter Settings:

Choose the current product model in the 'EPD type' at the top left corner. Select 'monochrome' for Display mode, 'No' for Clear screen, and 'Second' for Interval Time. Finally, input the flashing interval in seconds in the blank space (default is 30s; if it exceeds 300s, the system will enter sleep mode).

6. Choose 'Update' for Operate. Click the "Please select save path" button and choose a path to save the processed images. Select 'Select All' to choose all images.

7. Click 'Process'. At this point, the software will begin processing the images, and the current progress will be displayed at the bottom of the software.



8."When all images have been converted, you can click the 'Open Folder' button in the software to view the processed images. The processed images will be automatically generated in a folder named XT_Resources, and the converted images will be saved in the image folder.



5.3. Copying Images:

Copy the XT_Resources folder to the root directory of the USB flash drive.

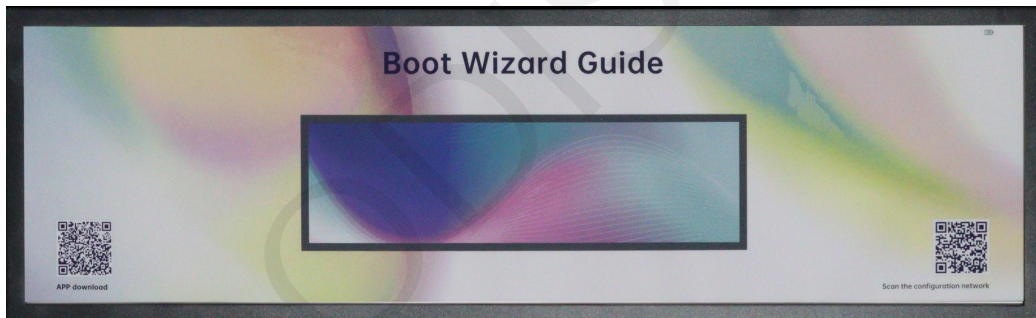
5.4. Image Display:

1. Insert the USB flash drive into the USB 2.0 port of the machine and wait for about 30 seconds for the display to automatically refresh the images in the USB flash drive.
2. After the display shows the images from the USB flash drive, you can unplug the USB flash drive and use the UP and DOWN keys to switch between displaying the images.

6. WiFi Image Update:

6.1. Installing the App:

Press and hold the UP key for 3 to 10 seconds, then release it to display the current network configuration guide. Scan the QR code on the left side with your phone to download the app. After downloading and installing the app, scan the QR code on the right side to configure the connection to the router.




6.2. Network Configuration:


1. In the app, select Resources  and click on the plus  in the icon upper right corner to enter the image addition interface.

2. Select the button **Scan code to add** add the QR code on the right, and fill in the device name and other information. And start to configure the network for the device, and you need to send the WiFi password to the device with the help of the Bluetooth of the mobile phone. Note: The device needs to be restarted after the network configuration is complete.


6.3. Image Display:

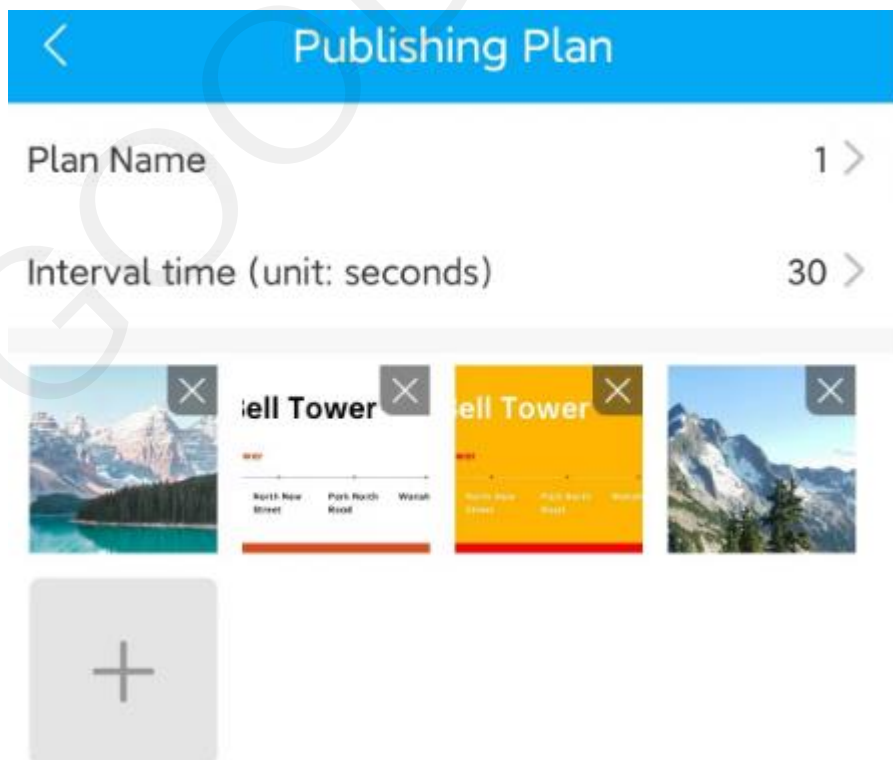
1. Check whether the device is online in the APP, if not, please manually pull down to update the device status.

2. Click on the online sign, find the Publish List , and click to enter the publishing list interface.

3. Click on Add Publishing  to enter the publishing plan setting interface.

4. Set the plan name, screen stay time (refresh interval between two images), and the images to be displayed. After setting everything, click the OK button

below . The software will then prompt with a success message. After successful publishing, the sign will play the images in the order selected in the publishing list.



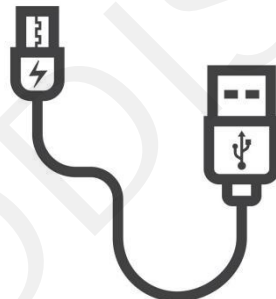
7. Packaging and installation

7.1 Please verify that you have received the following items included in the package:

Epaper display signage x1
USB power cable x1



Epaper display signage



Power adapter

7.2 Product installation

1. The product should be installed on a flat surface, otherwise the product may fall over. Leave space between the back of the product and the wall for proper ventilation. Do not install the product in the kitchen, bathroom or in places exposed to moisture, otherwise the service life of the product may be shortened.
2. Please do not install the product at an altitude of 3,000 meters or above. Otherwise it may cause malfunction.

8. Precautions

8.1 Transportation precautions

1. Pay attention to waterproofing during transportation to avoid damage to the display sign;
2. Be careful not to squeeze the display sign during transportation to prevent screen damage;
3. During transportation, pay attention to the ambient temperature not exceeding 65°C.

8.2 Precautions for use

1. The ambient temperature of the display sign is controlled between -15°C-65°C;
2. Clean the screen regularly to ensure that the displayed signs are clean and tidy;
3. Please do not dismantle the display sign without permission;
4. Pay attention to waterproofing during use and do not expose it to water;
5. Pay attention to avoid collisions during use

8.3 Storage considerations

The storage environment must be fire-proof, moisture-proof (humidity should not be higher than 90%), high temperature (temperature should not be higher than 70°C), backlog, dirt, heavy objects extrusion, and breakage;