25.3-inch
Color E-paper Display Signage

DMPH253EG1

GooDisplay ®

Product Specifications

Customer	Standard
Description	ePaper Display Signage
Model Name	DMPH253EG1
Date	2024/05/21
Revision	1.0

	Design Engineering		
	Approval	Check	Design
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1. Overview

The 25.3-inch color ePaper display signage utilizes E Ink's latest ACeP technology, delivering a print-poster-like quality that is unmatched by other display technologies, creating an elegant atmosphere. Content can be updated remotely via wireless transmission, saving labor and printing costs. The display does not consume power while maintaining an image, enhancing operational efficiency, significantly reducing resource consumption, and offering both smart and eco-friendly benefits. The E Ink display signage does not require additional floor power supply systems and is not constrained by power cables. It can be moved to the desired location at any time, providing high mobility and achieving excellent short-term promotional effects in any communication space. It is an ideal replacement for traditional paper advertising posters, offering substantial long-term energy savings, improving efficiency, and contributing to sustainable development in the industry.

2. Product Advantages

- Ultra-wide field of view, ultra-low power consumption
- Dual-state display (retains last image even after power loss)
- Display can be updated via USB or WiFi (USB preferred)
- Image formats supported: BMP, PNG, JPG

3. Structure Specification

Model	DMPH253EG1
Display	Screen Size: 25.3 inch Screen Type: ACeP Color ePaper Display Screen Resolution: 3200x1800
Port	USB 2.0: One port HOST, one port OTG HDMI-OUT: 1 port (for internal debugging) RJ45: 1 port, 10M/100M adaptive TF: Reserved (maximum expansion 128GB)

	KEY: POWER, UP, DOWN, RESET
Power Consumption	Power Supply: 5V Type-C interface Refresh Power: ≤18W Standby Power: ≤0.01W Built-in Battery: Lithium battery
Software	Image Update Time: 30s Image Update Method: USB or WiFi Language: Syncs with phone language
Motherboard	WiFi Band: 2.4G Bluetooth: 4.0 (Bluetooth image updates not supported) Operating System: Android 7.1 CPU: Quad-core ARM Cortex A7 DDR: 1GB eMMC: 8GB
Specification	Weight: Approximately 4kg Outline Size: 584x340x24mm
Temperature and Humidity	Operating Temp: 15°C to 35°C Storage Temp: -25°C to 50°C Operating Humidity: 35% to 80%

4.Product Structure

Figure 1: Front View of DMPH253EG1
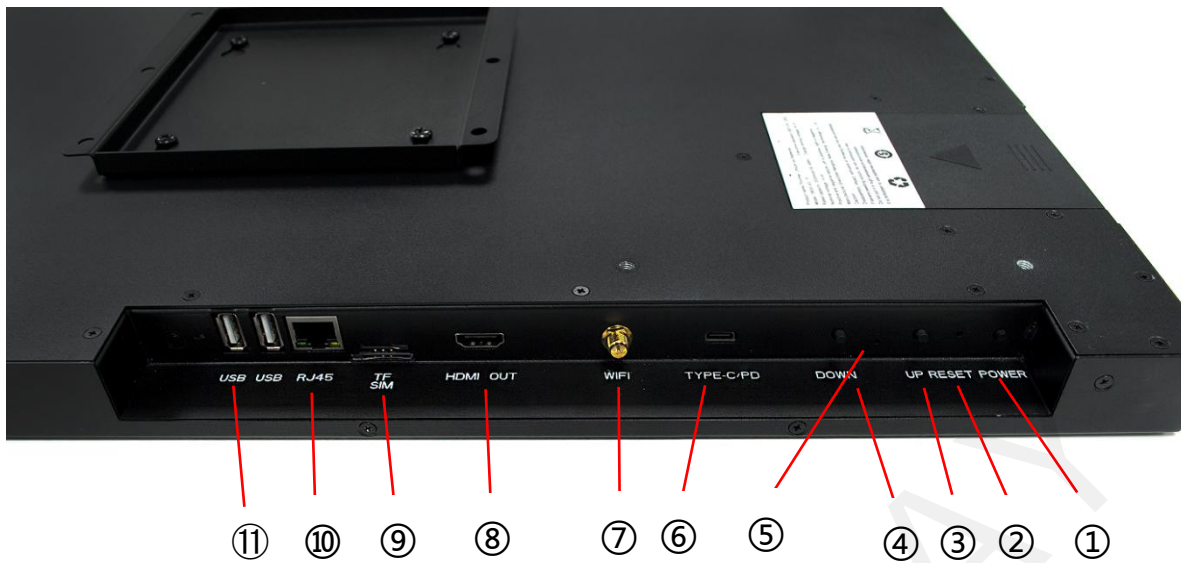

Figure 2: Back view of DMPH253EG1

Figure 3: Side View of DMPH253EG1

① **Power Button**

Turn the main power on or off. Press the power button briefly to start the sign; the LED light will turn on. Press the power button briefly again to turn off the sign; the LED light will turn off.

② **RESET Button**

Press briefly to reset the sign's system.

③ **UP Button**

- During the image update process, press once to switch to the next image. There must be at least two images saved in the system.

- Press and hold for 3s to 5s, then release to display the current network configuration guide. Scan the QR code on the left with your phone to download the app. After downloading and installing the app, scan the QR code on the right to configure the wireless router.

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

④ **DOWN Button**

● Press briefly to switch to the next image. There must be at least two images saved in the system.

● Press and hold for 3s to 5s, then release to view the system status information.

⑤ **LED Indicator**

● When the sign is powered on, the indicator light will pulse with a 2-second interval.

● When the sign is charging while powered off, the indicator light will stay on continuously. Once fully charged, the indicator light will resume pulsing at a 2-second interval.

● When the sign is charging while powered on, the indicator light will pulse at a 2-second interval.

● When the sign is powered off and the charger is unplugged, the indicator light will turn off.

⑥ **Type-C Charging Port**

Connect to a Type-C power adapter.

⑦ **WiFi Antenna Port**

Connect to the WiFi antenna.

⑧ **HDMI-OUT**

For internal debugging purposes.

⑨ **Storage Card Slot**

Insert a Micro SD card.

⑩ Network Port

Connect to a wired network.

⑪ USB 2.0 and OTG Port

Used for USB functionality, motherboard debugging, and firmware upgrades.

5. USB Image Updat

5.1 Image Requirements

- Formats: BMP, PNG, JPG
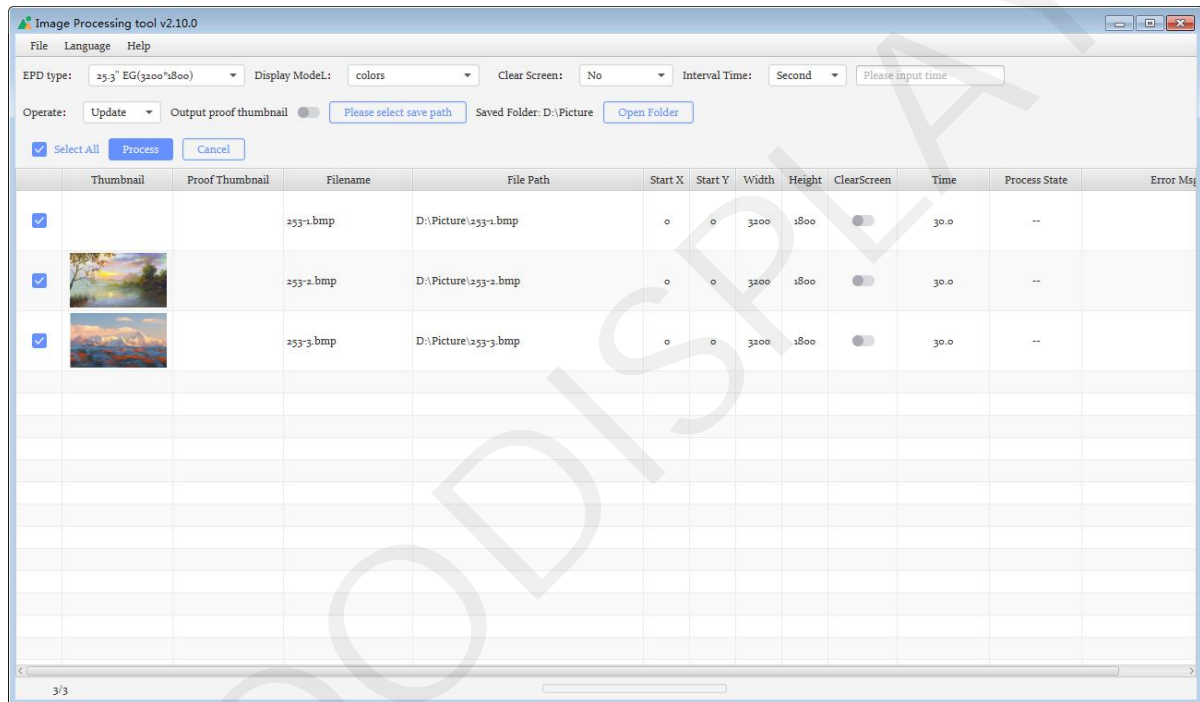- Resolution: 3200x1800

5.2 Image Processing

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

📁 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 you want to update on the D drive and save them in a newly created folder. Ensure that the image paths and filenames do not contain any spaces.

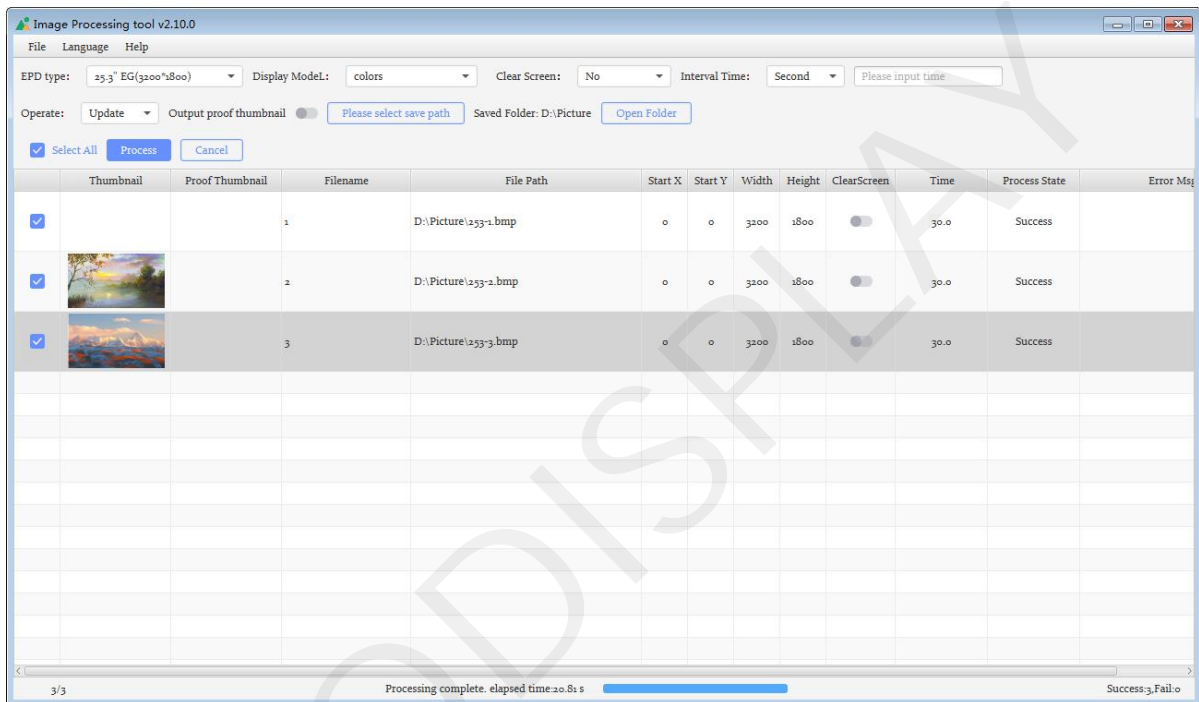253-1.bmp   253-2.bmp   253-3.bmp

3. Open the installed xtacep.exe software.

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

5. Set the parameters for the image resource package:

- In the upper left corner, select the current product model from the "EPD type" dropdown menu.

- Choose "monochrome" for Display mode.

- Select "No" for Clear screen.

- Choose "Second" for Interval Time.

- Finally, enter the flashing interval time 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 select a path to save the processed images. Select "Select All" to choose all the images.

7. Click "Process" to start processing the images. The software will display the current processing progress at the bottom.

8. Once 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

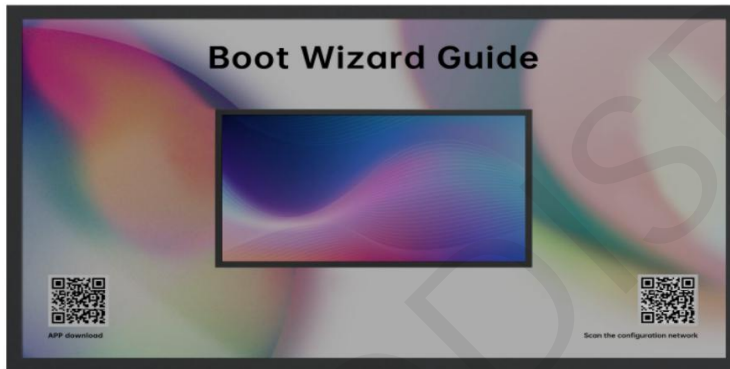Copy the XT_Resources folder to the root directory of a USB flash drive.

5.4. Image Display

1. Insert the USB flash drive into the USB 2.0 port of the device. Wait for about 30 seconds for the sign to automatically refresh the images from the USB flash drive.

2. Once the sign displays the images from the USB flash drive, you can remove the flash drive and use the UP and DOWN buttons to switch between the displayed images.

6. WiFi Image Update

6.1. Installing the App

Press and hold the UP button for 3s to 5s, then release to display the current network configuration guide. Scan the QR code on the left with your phone to download the app. After downloading and installing the app, scan the QR code on the right to configure the wireless router.

6.2. Network Configuration

1. In the app, select option Device , then click the "+" icon ⊕ in the upper right corner to enter the device addition interface.

2. Choose Scan code to add to add the QR code on the right, and fill in the device name and other information. Start configuring the device's network. During configuration, you need to enable Bluetooth on your phone to send the WiFi password to the device.

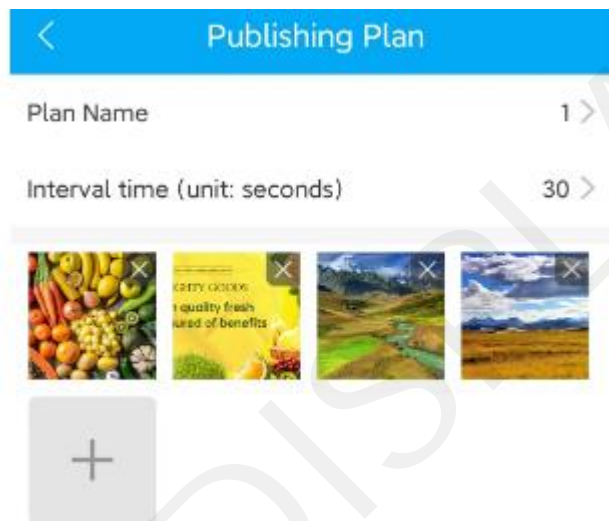Note: Device reboot is required after network configuration.

6.3. Image Display

1. Check if the device is online in the app. If it is offline, please manually refresh the device status by pulling down.

2. Click on the online sign, go to the Publish List , and enter the release list interface.

3. Click Add Publication to enter the release plan setting interface.

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

Confirm button below. At this point, the software will prompt "Success" after successful deployment. Once deployed successfully, the sign will play the images in sequence according to the selected images in the release list.
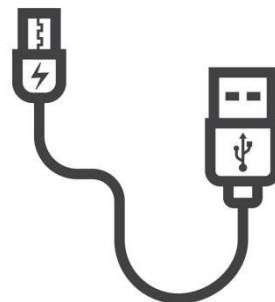

7. Packaging and Installation

7.1 Please verify if you have received the following items containing the package contents:

• E Ink Screen Signage *1
• USB Power Cable *1

E Ink Screen Signage   USB Power Cable

7.2 Product Installation

• The product should be installed on a flat surface to prevent potential tipping over.

Leave adequate space between the back of the product and the wall to ensure proper ventilation. Avoid installing the product in kitchens, bathrooms, or areas exposed to high humidity as it may shorten the product's lifespan.

• Do not install the product at altitudes above 3000 meters, as it may result in malfunction.

8. Precautions

8.1 Transportation Precautions

1. During transportation, ensure waterproofing to prevent damage to the display signage.

2. Avoid squeezing the display sign during transportation to prevent screen damage.

3. Maintain environmental temperature below 50°C during transportation.

8.2 Usage Precautions

1. Operate the display sign within a temperature range of 15°C to 35°C.

2. Regularly clean the screen to keep the display sign neat and tidy.

3. Do not dismantle the display sign without authorization.

4. Ensure waterproofing during usage; avoid water exposure.

5. Be cautious of collisions during usage.

8.3 Storage Precautions

Store in a fireproof, moisture-resistant environment (humidity not exceeding 80%), away from high temperatures (not exceeding 50°C), avoiding stacking, dirt accumulation, heavy object pressure and damage.