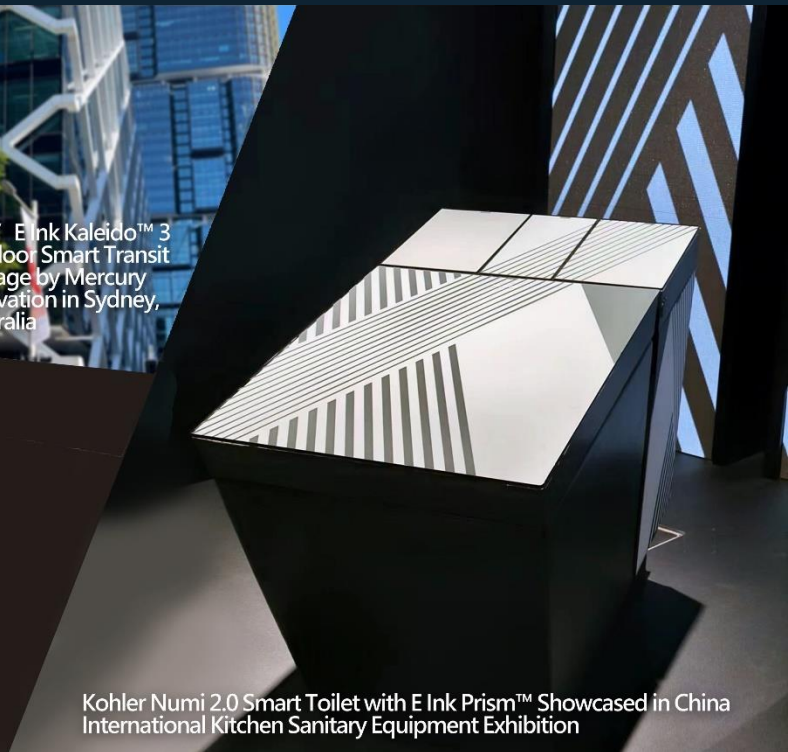
EL133UF1 EVK User Manual_V01

20240102

E Ink Kaleido™ 3 Outdoor

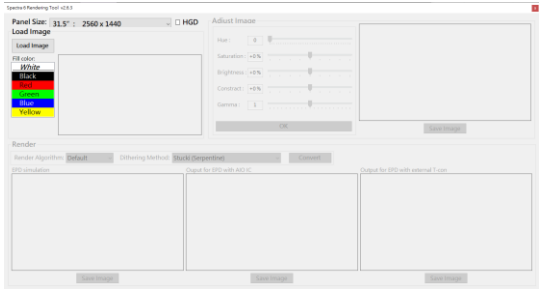
13.3" E Ink Kaleido™ 3 Outdoor Smart Transit Signage by Mercury Innovation in Sydney, Australia



Kohler Numi 2.0 Smart Toilet with E Ink Prism™ Showcased in China International Kitchen Sanitary Equipment Exhibition

Function Description

A



B

- Rendering tool and Burning image tool
  - A. Image conversion
  - B. Burning converted image file to MUC board

- MCU+boots board
  - Initialize EPD and control display

- 13.3 spectra 6 EPD
  - Show image

EVK connection method

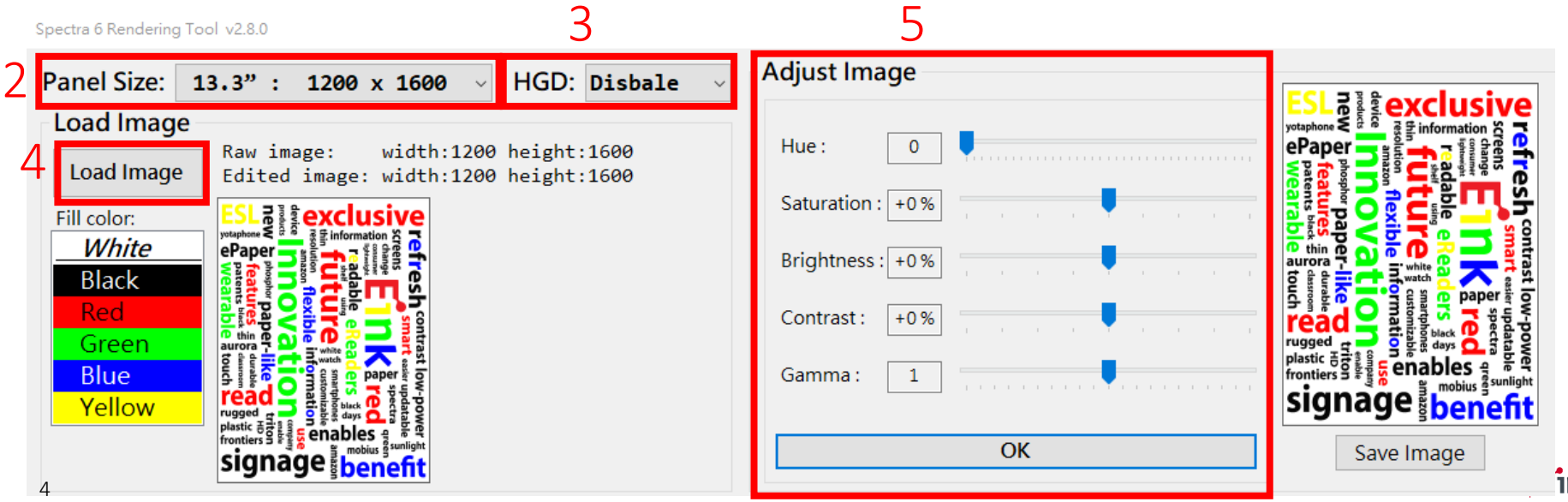
Boost board

ESP32 MCU board

DC 5V/1A

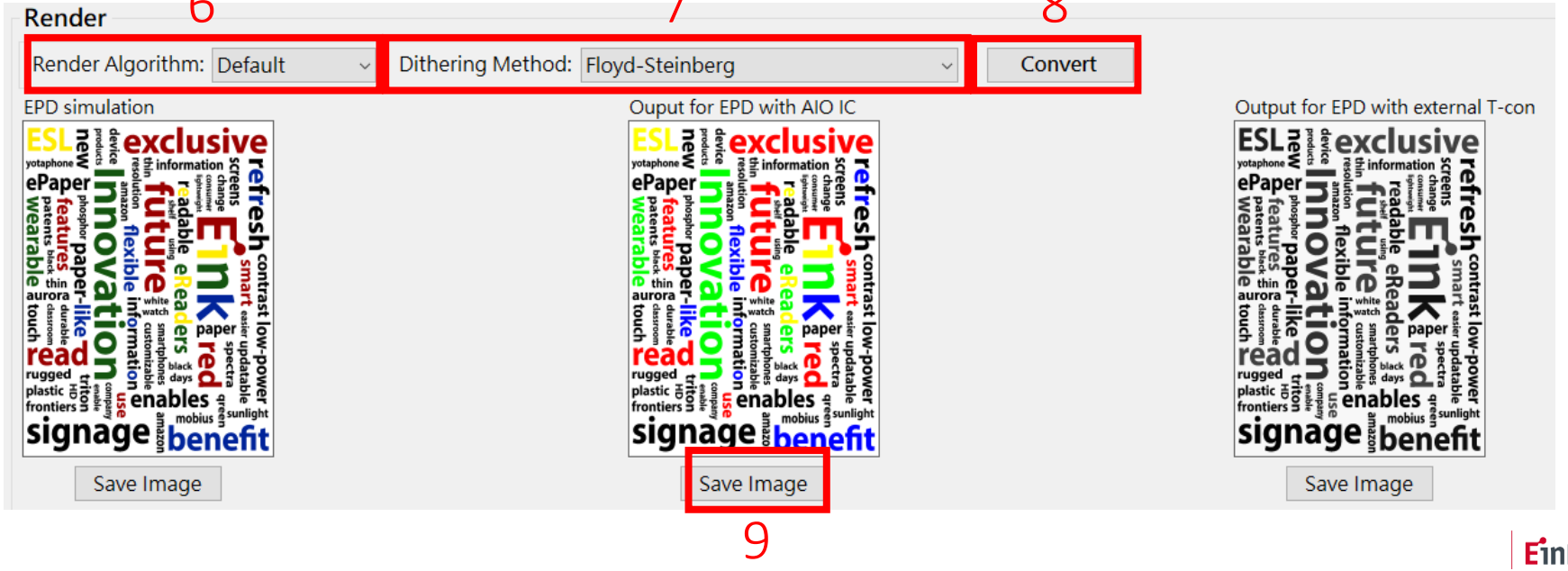
Render_Image Tool

1. Execute the 〝Spectra_6_Rendering_Tool_v2.x.x.exe〞 tool.
2. Panel size: Select 13.3”: 1200x1600.
3. Disbale HGD
4. Load image (resolution: 1200x1600)
5. Image effect adjustment. After the adjustment is completed, press the OK key to confirm.
   - ➢ After image processing is completed, it will be displayed on the right.



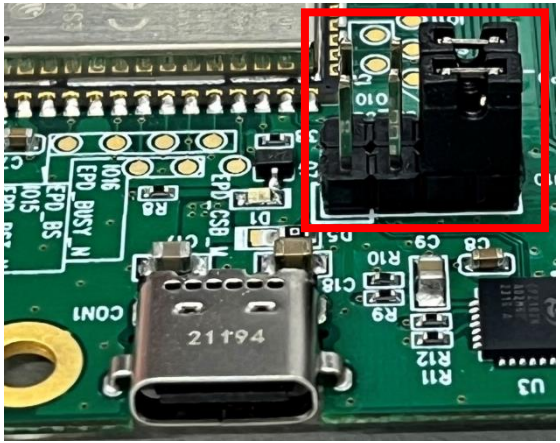
Render_Image Tool

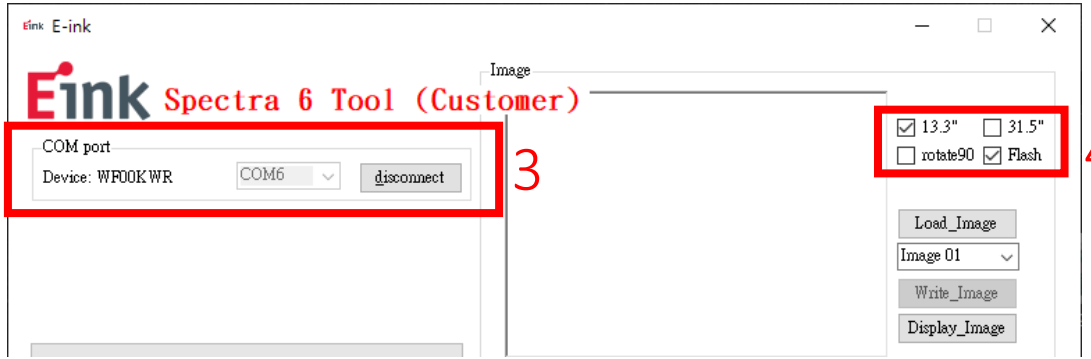
6. Render Algorithm: Select Default (recommended)
7. Dithering Method: Select Floyd-Steinberg (recommended)
8. Click "Convert"
9. After the Image convert is completed, save the "Output for EPD with AIO IC" Image.



Burning image to EPS32 MCU board

1. First connect the EVK board to the EPD via USB and turn on the power.
   - ➢ Confirm whether the USB function selection jumper of J10 is as shown in the figure below.
2. Execute Spectra 6_Image_Tool.exe
3. Click "connect".
   - ➢ If the connection is successful, there will be a WF00KWR message on the Device.
   - ➢ If there is no message on the Device, please go to the Device Manager to confirm the COM port number
4. Click 13.3” and Flash.



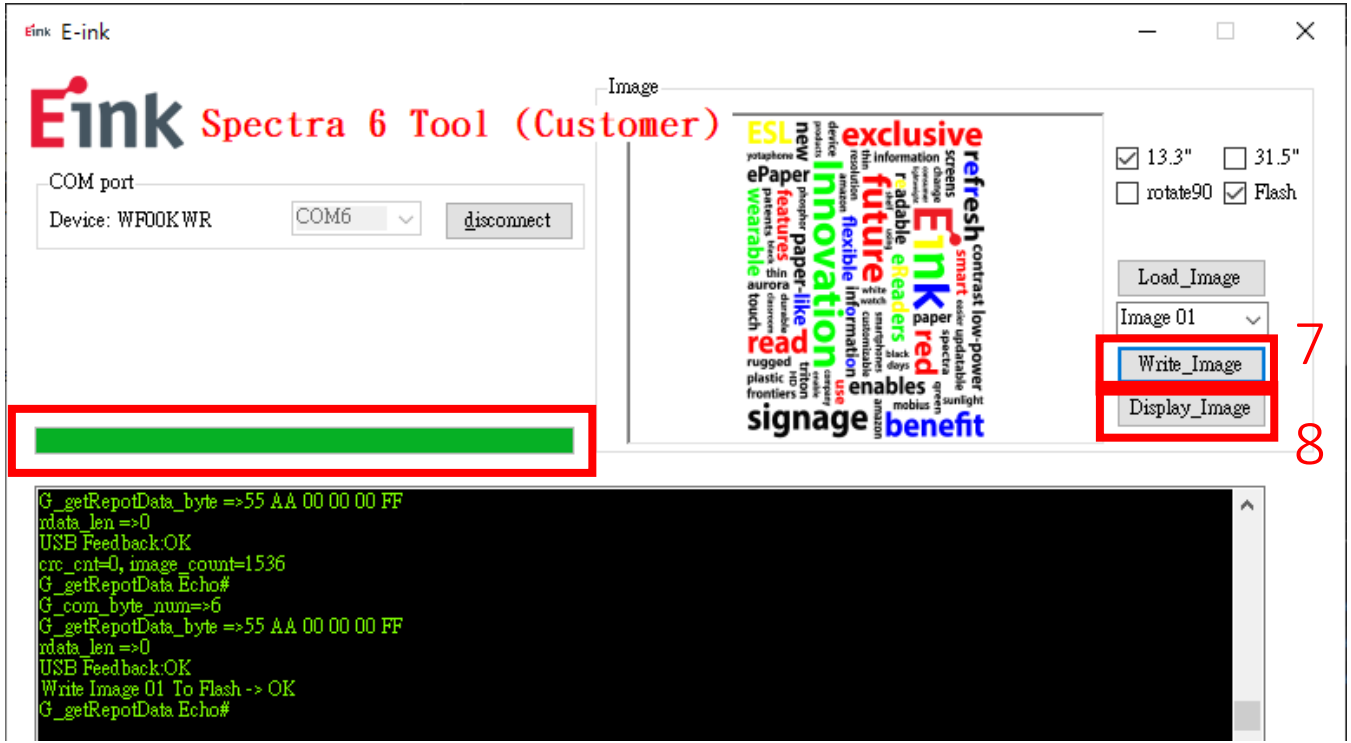


Burning image to EPS32 MCU board

5. Load Image (resolution: 1200x1600)
6. Select the Image storage location (13.3" can store Image 01~05)

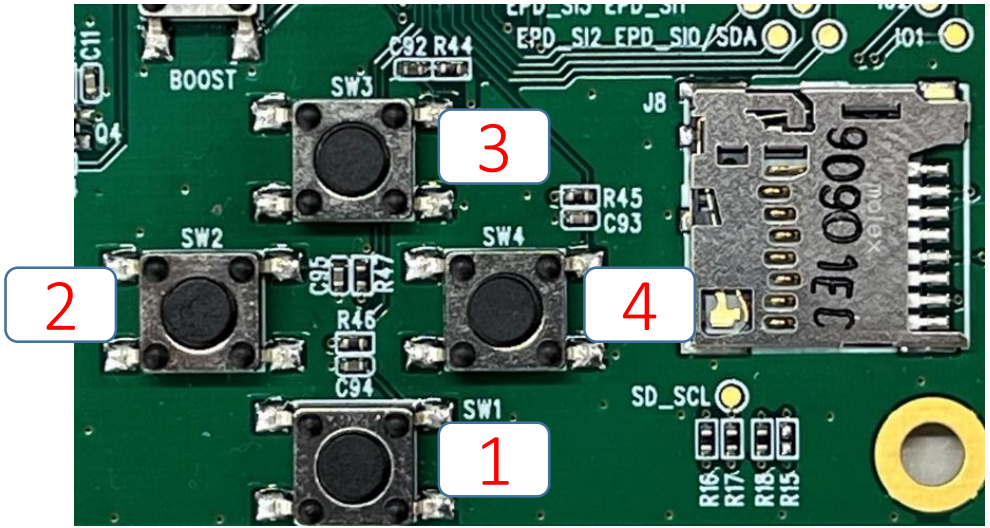
Burning image to EPS32 MCU board

7. Click "Write_Image" to write the Image file to the MCU board and wait for the Process Bar to complete.
8. After the burning is completed, click "Display_Image", and the EPD will display the Image xx location image.



Button function

1. Button 1：Display a single image and display 15 image files in sequence.
2. Button 2：Slideshow function, you can pause the slideshow by pressing button 1、button 2 or button 3.
3. Button 3：Only the white image is displayed, and the EPD can be displayed as a white image when it is not displayed for a long time.
4. Button 4：Only the black image is displayed.



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Thank You