E-ink User manual

Introduction

This E-ink display module is special made for E-ink display development, no need to build any additional circuit and component, you can run this E-ink display module directly with your project.

Features

- Ultra low power consumption
- Super wide viewing angle - near 180°
- Extra thin & light
- High Resolution
- SPI and I2C interface
- Four gray shade colors
- Maintains a clear display in the power-off state
- All necessary component included
- Integrating boosted circuit

Specifications

- Resolution: 172x72
- Display thickness: 1.18mm
- Display Dimension: 2.04inch,
- Module dimension: 68.58x53.34mm(The same as Arduino)
- Pixel Pitch (mm): 0.28(H) X 0.28(V) / 95dpi

- Contrast Ratio: 10:1
- Display Color: 4 gray shade colors, White, Gray, Deep gray, Black
- Refresh Time (room temp.): 1 sec
- Interface: SPI
- Operation Temperature: 0~50°C
- Storage Temperature: -20~60°C
- Module Weight: 25g
- Interface: SPI / I2C

Interface

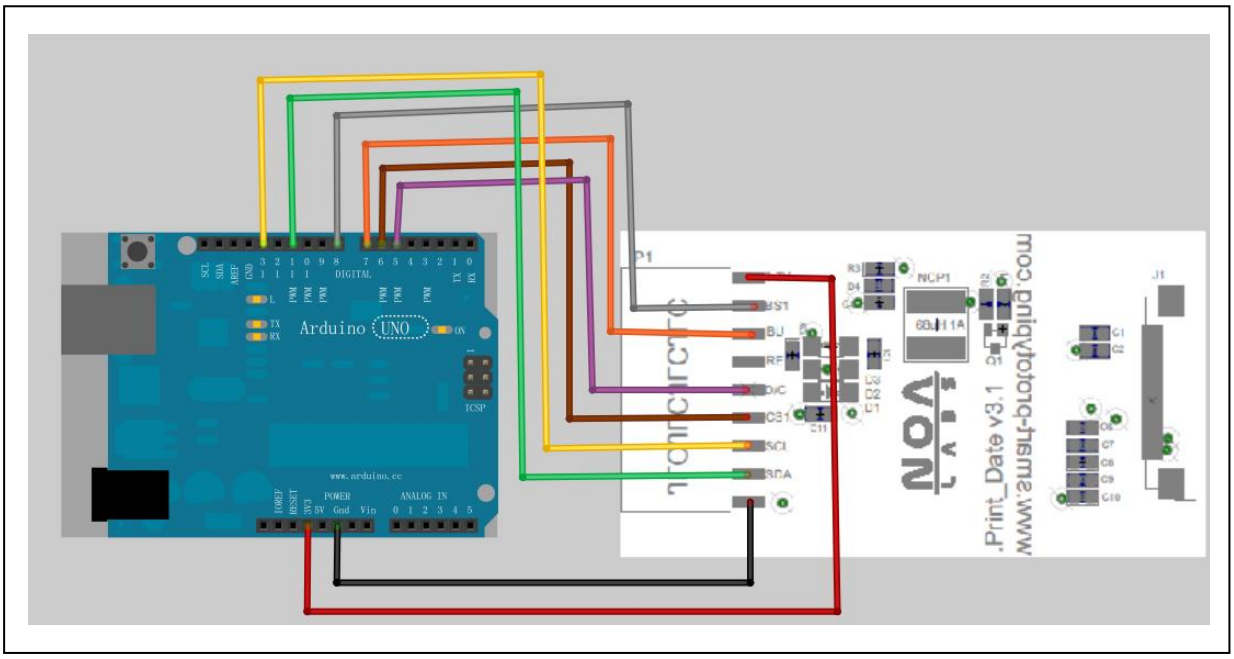
- 3V3D: 3.3V
- BS1: Bus interface selection pin, low is 4-line SPI interface, high is I2C interface.
- BUSY: E-ink Device Busy Signal, When Busy is High, the operation of the chip should not be interrupted, command should not be sent.
- RES: E-ink reset pin.
- D/C: E-ink Data or Command control pin.
- CS1: E-ink select input pin
- SCL: I2C clock pin/ SPI serial clock pin.
- SDA: I2C data pin/ SPI MOSI pin.
- GND: Ground

Version

V 1.00

User manual

1. connection:

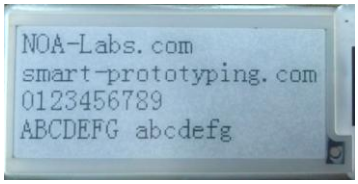


- BS1 ~ D8
- BUSY ~ D7
- RES ~ NULL
- D/C ~ D5
- CS1 ~ D6
- SCL ~ D13
- SDA~ D11

2. Import library in Arduino.

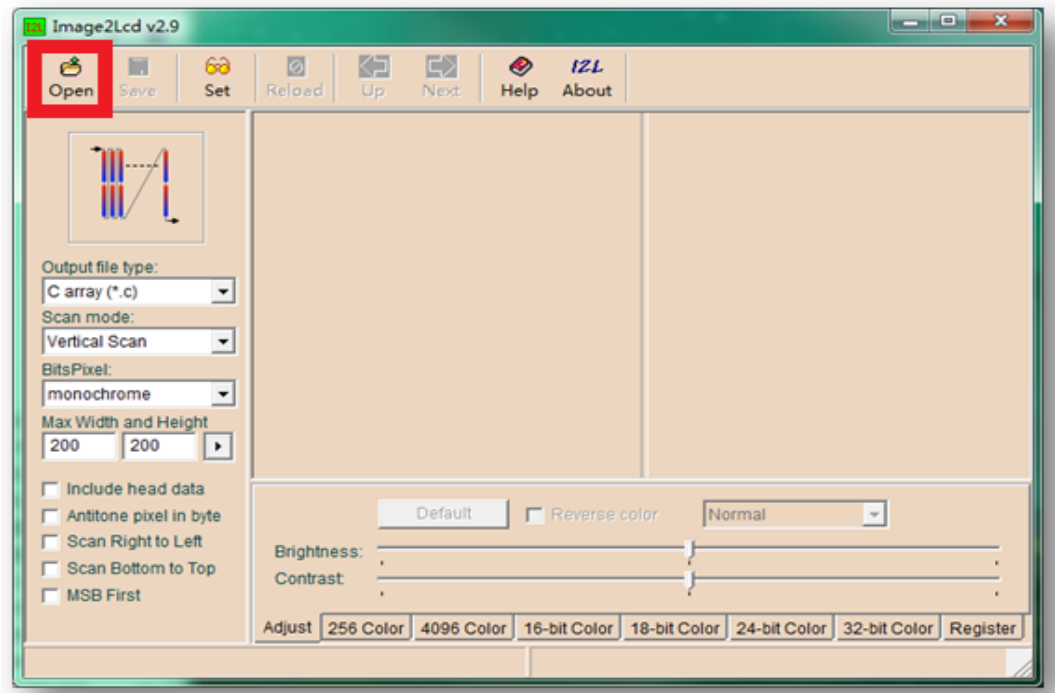
3.Run ShowBitMapDemo.

4. Run ShowStringDemo.

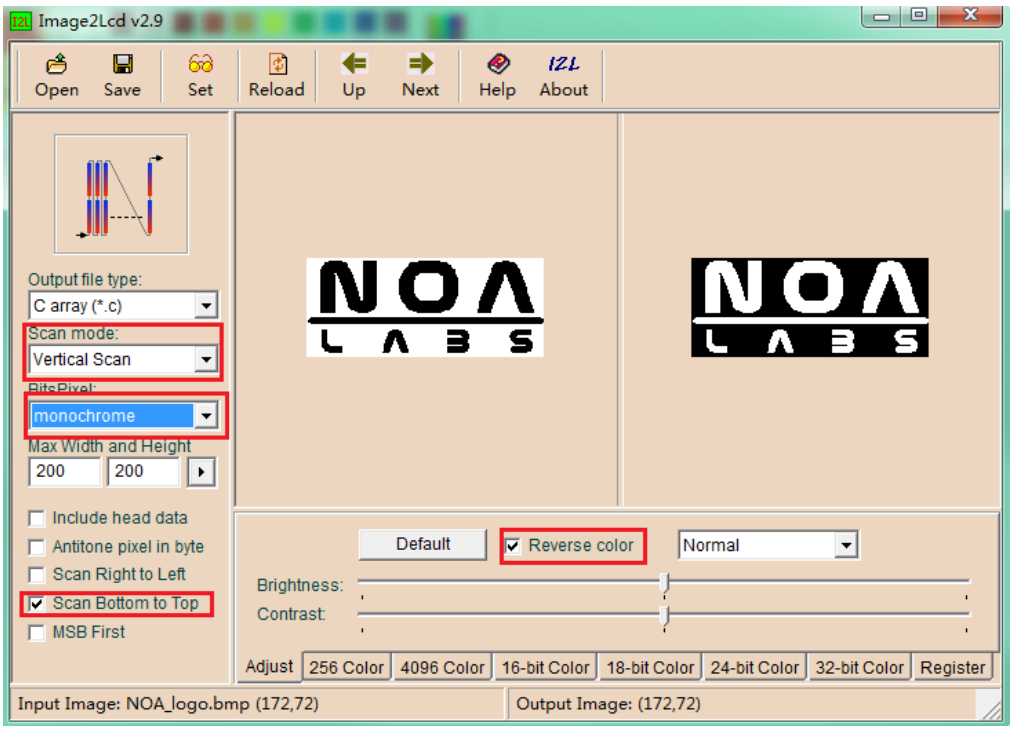


Convert a bitmap to E-ink format

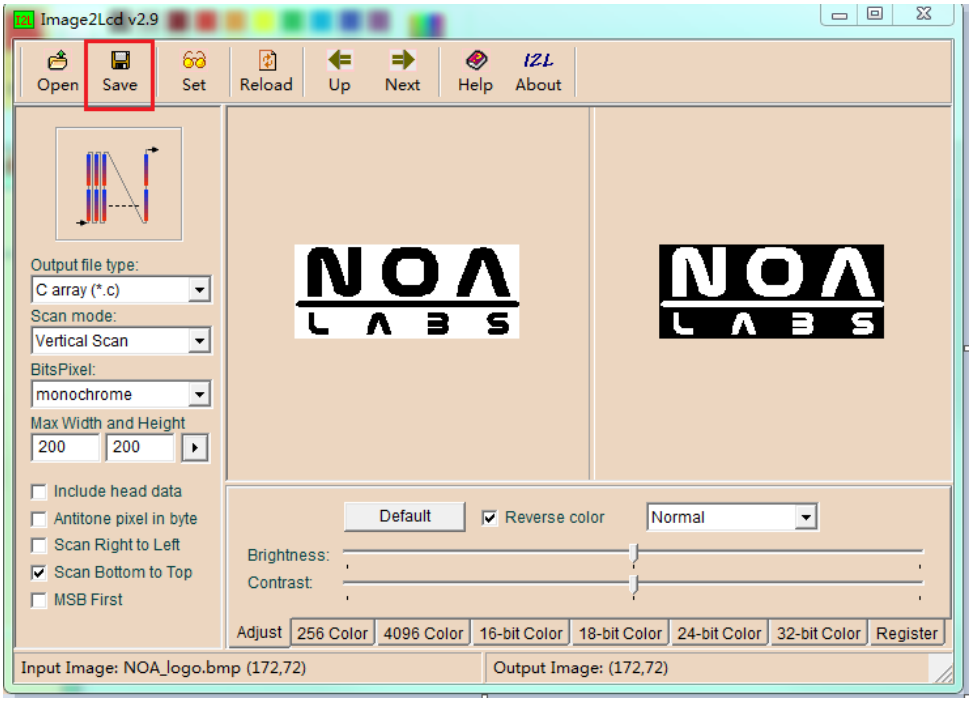
1. Open a 172*72(monochrome)picture



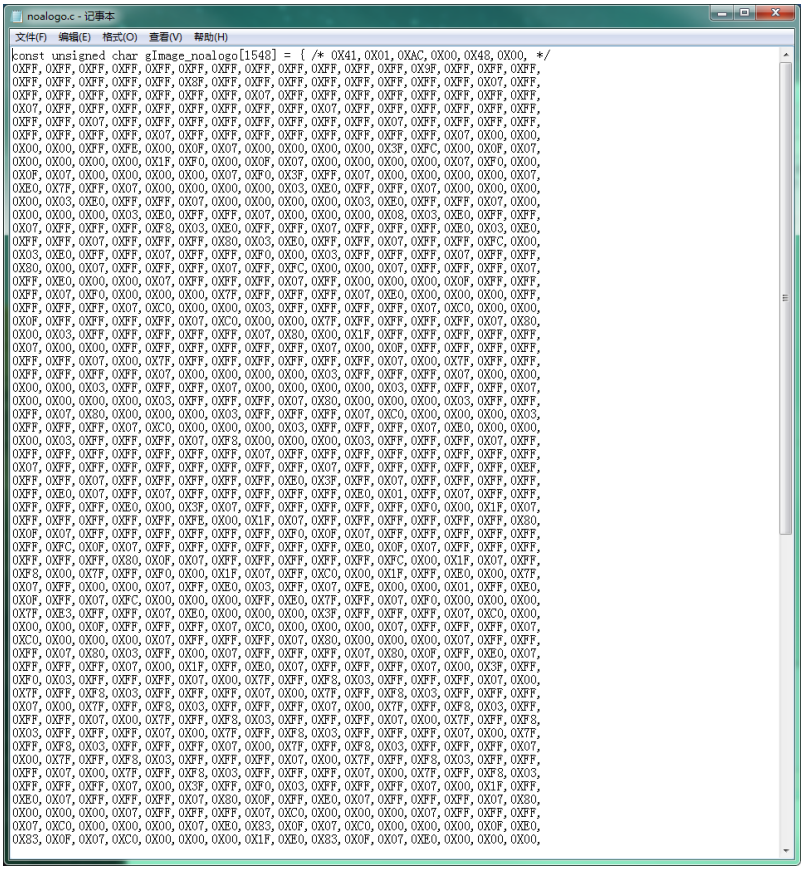
2. Select the right model



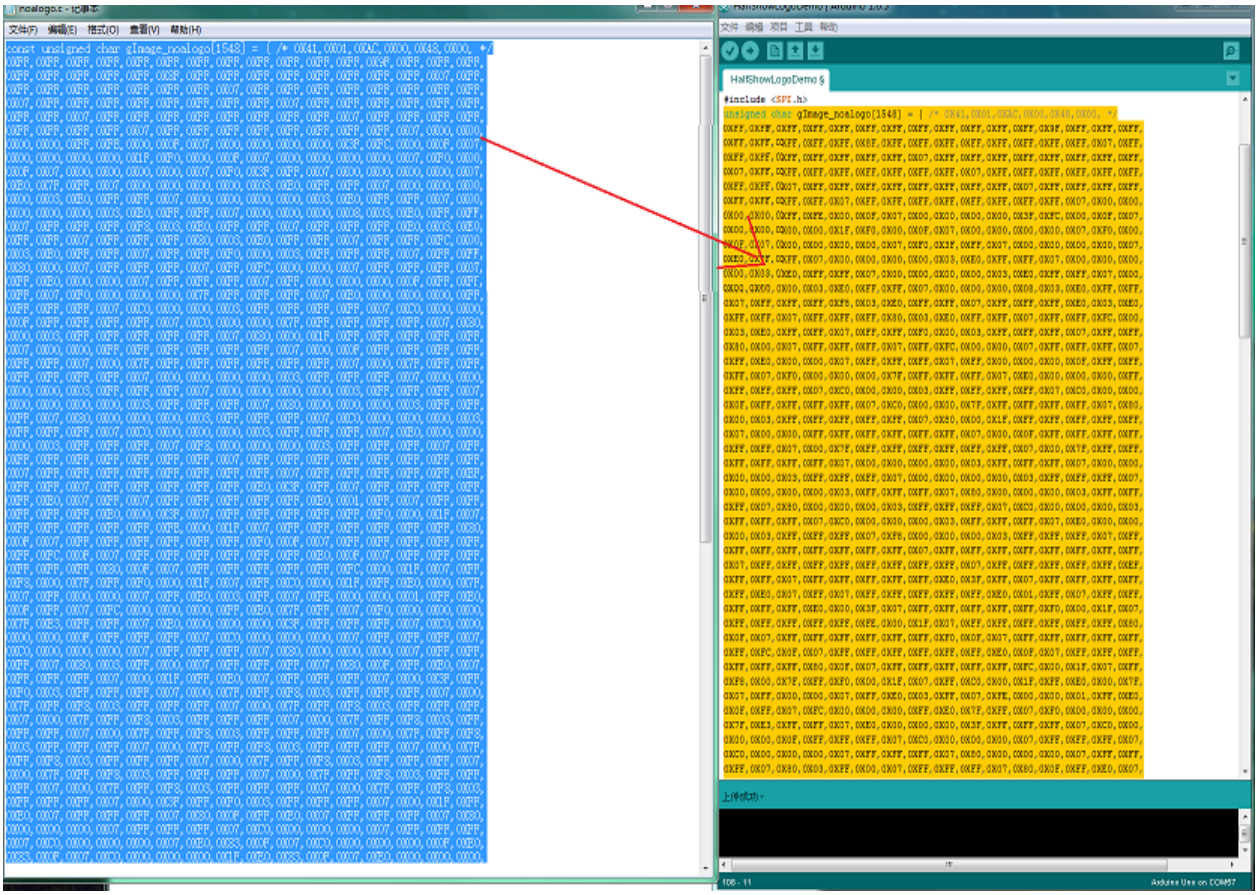
3. Save the file



5. Open the file



4. Copy the array into the demo



6. Select the array to display

```
Eink.ShowBitMap(NOA_Logo);//show bit map
```

7. Download code and view the picture.