Product Description

2.4 inch Color TFT Touch Screen Display Shield for Arduino. The display has excellent vivid color contrast.

Spice up your Arduino project with a beautiful large touch screen display shield with built in micro SD card connection. This display is big (2.4" diagonal) bright (4 white-LED backlight) and colorful (18-bit 262,000 different shades)! 240×320 pixels with individual pixel control. It has way more resolution than a black and white 128×64 display. As a bonus, this display has a resistive touch screen attached to it already, so you can detect finger presses anywhere on the screen.

Technical Details:

- 2.4" diagonal LCD TFT display.
- 240×320 resolution, 18-bit (262,000) color.
- SPFD5408 controller with built in video RAM buffer.
- 8 bit digital interface, plus 4 control lines.
- Uses digital pins 5-13 and analog 0-3. That means you can use digital pins 2, 3 and analog 4 and 5. Pin 12 is available if not using the micro SD.
- Works with any Arduino '328 or Mega (Leonardo not supported yet).
- 5V compatible! Use with 3.3V or 5V logic.
- Onboard 3.3V 300mA LDO regulator.
- 4 white LED backlight. On by default but you can connect the transistor to a digital pin for backlight control.
- 4-wire resistive touch screen.

Related Documents:

1. LCD Controller Datasheet: see **SPFD5408A.pdf**.
2. Schematics: see **schematic-shd028.pdf**.
3. Adafruit 2.8" Touch Screen LCD uses same graphic controller. Please see this link.

Arduino Libraries:

Following Libraries along with an example (graphictest) found in TFTLCD-Library-Master was tested with this 2.4" TFT display.

Library	URL
Adafruit Touch-Screen Library	https://github.com/adafruit/Touch-Screen-Library
Adafruit TFT LCD Library	https://github.com/adafruit/TFTLCD-Library
Adafruit Graphics Library	https://github.com/adafruit/Adafruit-GFX-Library
Adafruit SD Card Library	https://github.com/adafruit/SD

Notes: Please extract these folders under Arduino Library folder and do not forget to replace "-" (dash) with "_" (underscore)

Tested Example: graphictest (Tested on Arduino UNO R3)

\\arduino-1.5.5\libraries\TFTLCD_Library_master\examples\graphicstest