

New 1.5" and 4.0" Square TFTs

These new displays mark the first square TFT LCDs in Newhaven Display's product line, available in 1.5-inch and 4.0-inch diagonal sizes. Their perfectly symmetrical design offers a modern visual aesthetic while providing engineers with a versatile form factor ideal for compact interfaces, wearables, control systems, and next-generation product designs. Built with advanced IPS technology, each display delivers ultra-wide viewing angles, vivid picture, accurate color reproduction, and high brightness for excellent readability in any lighting environment.

The 1.5" TFT model features a crisp 240x240 pixel resolution, average backlight brightness of 1200 nits, and optional 4-wire resistive touchscreen. It also supports both SPI and Parallel interfaces for flexible integration.

The 4.0" models offer a sharp 480x480 pixel resolution, average brightness of 1000 nits, and 4-wire resistive or capacitive multi-touch screens with I2C interface. They are available with either 24-bit Parallel RGB or 2-lane MIPI DSI interfaces for high-speed, stable graphics performance, and all models come equipped with built-in EMI shielding to ensure reliable operation in demanding environments.

Notable Features:

All Models:

- Square form factor
- IPS TFT technology with full viewing angles
- Sunlight readable
- 3.3V supply voltage
- Built-in EMI shielding

1.5" Diagonal:

- 240x240 pixel resolution
- Resistive touchscreen model available
- Average brightness of 1200 nits
- 3/4-Wire SPI or 8-bit 8080 Parallel interface
- ST7789VI Controller IC
- 28-pin FPC connection with 0.5mm pitch

4.0" Diagonal:

- 480x480 pixel resolution
- Resistive and capacitive touchscreen models available
- Average brightness of 1000 nits
- 24-bit Parallel RGB or 2-Lane MIPI DSI interface
- ST7701SN Controller IC
- 40-pin FPC connection with 0.5mm pitch



Product Part Numbers

- > NHD-1.5-240240AF-CSXP
- > NHD-1.5-240240AF-CSXP-T
- > NHD-4.0-480480AF-ASXP-CTP
- > NHD-4.0-480480AF-ASXP-T
- > NHD-4.0-480480AF-ASXP
- > NHD-4.0-480480AF-MSXP-CTP
- > NHD-4.0-480480AF-MSXP-T
- > NHD-4.0-480480AF-MSXP