

NEW FULL-COLOR OLED DISPLAYS

Introducing our new 1.8" and 1.91" full-color graphic OLED displays.

Four new graphic OLED displays are now available in 1.8" (160x128 pixel) and 1.91" (176x176 pixel) sizes with full-color (65K - 262K color depth). These passive-matrix color OLED displays represent a significant step forward in small-screen OLED technology offering versatility, reliability, and striking visual quality, suitable for a diverse range of applications. Available as fully assembled modules with PCB and bezel for durability and easy installation, or as glass-only models for greater design flexibility. These displays boast multi-level contrast and brightness adjustment for optimal viewing in various lighting conditions. With extended operational lifetime surpassing most full-color OLEDs on the market, they also offer compatibility with Arduino and feature built-in drivers for simplified setup and enhanced performance.

Furthermore, with their larger sizes, these OLED displays provide expanded possibilities for engineers and developers. The 1.91" model in particular, offers a perfect square form-factor design with equal pixel counts in both horizontal and vertical directions. These color OLEDs feature user-selectable 8-bit 6800/8080 Parallel and 4-wire SPI interface modes, while the 1.91" model also includes I²C interface for added versatility. The OLED modules are engineered with onboard DC/DC boost converters for OLED power supply and a single low-voltage power supply (3.3V) for operation. These full-color OLED displays are well-suited for a wide range of industries including portable consumer devices, automotive systems, medical equipment, aerospace and beyond, delivering the visual power and performance necessary to stand out in a competitive landscape.



TFT Features

- 1.8" and 1.91" full-color graphic OLEDs
- 65K - 262K color depth
- 160x128 pixels or 176x176 pixels
- Available as glass-only or fully assembled module
- 10,000:1 contrast ratio
- 256-step contrast + 16-step brightness adjustment
- User-selectable interface modes (Parallel / SPI / I²C)
- Full viewing angles
- Configurable display orientation on 1.8" model
- Built-in SSD1353 or SSD1333 display driver
- Wide operating temperature range (-40°C to +70°C)
- Longer operational lifetime than most color OLEDs

Product Part Numbers

- **NHD-1.8-160128B**
- **NHD-1.8-160128UBC3**
- **NHD-1.91-176176B**
- **NHD-1.91-176176UBC3**