

LCD Displays for Aerospace Applications:



Various display size and resolution for Aerospace Applications:

Custom sized LCDs are available in industry-standard sizes intended for aerospace and simulation applications. These include 3AT1, 4x4, 5x5 and 6x6 with a 1:1 aspect ratio. The custom-sized LCDs are available in industry-standard resolutions such as 480x480, 720x720, and 768x768. Higher resolutions and customization are available to meet specific customer requirements.



Sunlight Readability

LCD displays are designed for sunlight readability and include features to maximize the lifetime of the display assembly in rugged applications. The displays can be developed for 1,000 up to

2,000 or more nits at full brightness. These custom-built backlights include internal thermal path features to allow for the high brightness and efficiency for these applications.

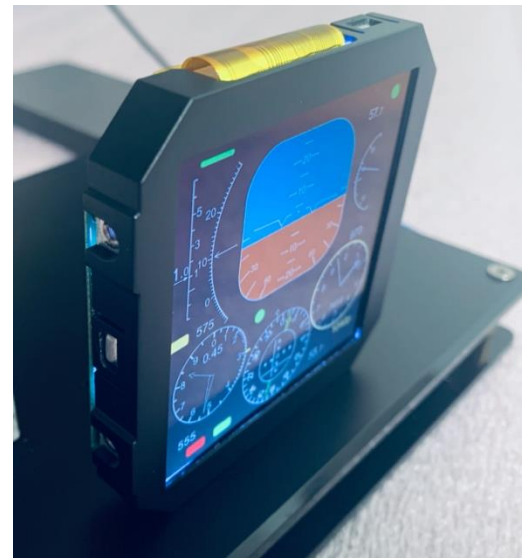
NVIS Backlights

These custom aerospace LCD modules include options for NVIS to meet the criteria outlined in MIL-STD-3009. These custom backlight options using proprietary technology to meet strict criteria for chromaticity and radiance while maximizing daytime performance. The custom displays are also available with a dual-mode NVIS option. In this approach, the LCD has 2 independent backlights. One unfiltered for high ambient lighting conditions and a secondary backlight system that is filtered at the light source to meet the NVG criteria. These independent backlights can be enabled by a single pin on the LED driver included with this option.

3 ATI Module:

480 x 480 resolution, normally black IPS cell construction. This LCD has a standard LVDS interface, includes a 1,000-nit edge-lit backlight, PWM dimming LED backlight driver and optically bonded AR cover glass in a very thin compact rugged design.

Model Number: SM905-03030-05
Module Outline: 77.0 (H) x 77.0 (V) x 16 (D) mm
Display Area: 60.22 (H) x 60.33 (V) mm
Diagonal Display Area: 3.35"
Resolution: 480 x 480
Pixel Pitch: 0.12546 (H) x 0.12546 (V) mm
Color Pixel: RGB Stripe
Display Mode: IPS Normally Black
Number of colors: 16.7M (8 bit)
NTSC: 62%
Backlight: LED 1,000 nits (LED driver included)
Interface: Single Chanel LVDS



4x4 Module:

720 x 720 resolution, normally black IPS cell construction. This LCD has a standard LVDS interface, includes a 1,000-nit edge-lit backlight, PWM dimming LED backlight driver and optically bonded AR cover glass in a very thin compact rugged design.

Model Number: SM905-04040-03
Module Outline: 120.1 (H) x 120.1 (V) x 16 (D) mm
Display Area: 99.36 (H) x 99.36 (V) mm
Diagonal Display Area: 5.53"

Resolution: 720 x 720
Pixel Pitch: 0.138 (H) x 0.138 (V) mm
Color Pixel: RGB Stripe
Display Mode: IPS Normally Black
Number of colors: 16.7M (8 bit)
NTSC: 72%
Backlight: LED 1,000 nits (LED driver included)
Interface: Single Chanel LVDS

5x5 Module:

768 x 768 resolution, normally black IPS cell construction. This LCD has a standard LVDS interface, includes a 1,000-nit edge-lit backlight, PWM dimming LED backlight driver and optically bonded AR cover glass in a very thin compact rugged design.

Model Number: SM905-05050-01
Module Outline: 152 (H) x 152 (V) x 16 (D) mm
Display Area: 127.87 (H) x 127.87 (V) mm
Diagonal Display Area: 7.07"
Resolution: 768 x 768
Pixel Pitch: 0.1665 (H) x 0.1665 (V) mm
Color Pixel: RGB Stripe
Display Mode: IPS Normally Black
Number of colors: 16.7M (8 bit)
NTSC: 60%
Backlight: LED 1,000 nits (LED driver included)
Interface: Single Chanel LVDS

6x6 Module:

768 x 768 resolution, normally black IPS cell construction. This LCD has a standard LVDS interface, includes a 1,000-nit edge-lit backlight, PWM dimming LED backlight driver and optically bonded AR cover glass in a very thin compact rugged design.

Model Number: SM905-05050-01
Module Outline: 177.4 (H) x 177.4 (V) x 16 (D) mm
Display Area: 158.4 (H) x 158.4 (V) mm
Diagonal Display Area: 8.8"
Resolution: 768 x 768
Pixel Pitch: 0.20625(H) x 0.20625 (V) mm
Color Pixel: RGB Stripe
Display Mode: IPS Normally Black
Number of colors: 16.7M (8 bit)
NTSC: 70%
Backlight: LED 1,000 nits (LED driver included)
Interface: Single Chanel LVDS

