

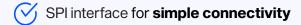
2.7" Reflective LCD 2.0™

Display module with NVG Secure front light



Overview

This 2.7" monochrome display module uses reflective LCD 2.0 technology and is specifically designed for military applications where Night Vision Goggle (NVG) security is critical. The MIP LCD enables ultra low-power consumption, extending the battery life of your device. The integrated front light uses a single LED enabling low SWaP required devices to offer a superior user experience for a variety of military and defense applications. This display has been tested and proves to be capable of meeting the following standards: **US Army CECOM NVG Secure Lighting SOW** and **MIL-STD-3009 Section 3.2.2** .



Front light dimmable to **below 0.172 nits**

NVG Secure | Low visual and heat signature



Intrinsically safe with wide temperature range

0.05mm thick, Azumo film is over5x thinner than alternative light guides





View Mechanical Drawing

Sharp Display P/N	LS027B7DH01
Resolution	400 x 240
Active Area	58.8 mm x 35.28 mm
PPI	173
Display Colors	B&W
Outline	62.8 (W) x 42.82 (H) x 1.64 (D)
Display Thickness	1.86 mm
Display Power Consumption (S	tatic Image) 50 μW
Display Power Supply Voltage	3.2V (Analog) & 5.0V (Digital)
Response Time, Rise + Fall	10 + 20 ms
Interface	SPI
Front Light Power Supply Voltage	ge 3.0V
Front Light Power Consumption	n 6 - 75 mW
Front Light Brightness, Typ	TBD
Contrast Ratio - Native LCD	14
Viewing Angle - Native LCD	55/55° (H) & 60/60° (V)
Storage temperature (C°)	-30°C ~ 80°C
Operating temperature (C°)	-20°C ~ 70°C