

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**.

- ✓ SPI interface for **simple connectivity**
- ✓ Superior **readability** in all lighting conditions
- ✓ Front light dimmable to **below 0.172 nits**
- ✓ **Intrinsically safe** with wide temperature range
- ✓ **NVG Secure** | Low visual and heat signature
- ✓ 0.05mm thick, Azumo film is over **5x 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 (Static 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	3.0V
Front Light Power Consumption	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

***Preliminary data. May be updated as testing continues. Latest update: 06/06/2024**

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