

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](#)

Resolution	400 x 240
Active Area	58.8 mm x 35.28 mm
PPI	173
Display Colors	Monochrome
Outline	62.8 mm x 42.82 mm
Display Thickness	1.86 mm
Display Power Consumption (Static Image)	50 uW
Display Power Consumption (1Hz Update)	175 uW
Display Frame Frequency, Max	20 Hz
Display Response Time, Rise+Fall	10+20 ms
Interface	SPI
Front Light Power Supply Voltage	3 VDC
Front Light Power Consumption	6 - 75 mW
Display Power Supply Voltage	3.2 V & 5 V
Contrast Ratio (Native LCD)	14
Viewing Angle (Native LCD)	55° (H) & 60° (V)
Storage Temperature (°C)	-30°C ~ 80°C
Operating Temperature (°C)	-20°C ~ 70°C

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