

TVD050VHL-NV



5"

FEATURES

- ◆ **T-BRITE®** Technology
 - Unrivalled Power Efficiency
 - Superior Thermal Dissipation
 - Innovative fault-tolerant LED design
- ◆ Sunlight Readable
- ◆ NVIS: MIL-STD-3009 Class B
- ◆ TTL / LVDS Signal Interface
- ◆ Longer Life Time
- ◆ Wide Operating Temperature Range of -30C ~ +80C

CONTACT

True Vision Displays, Inc.

16402 BERWYN ROAD
CERRITOS, CA 90703

PHONE 1-562-407-0630

FAX 1-562-407-0631

E-mail sales@TVDLCD.com

Website www.TVDLCD.com



TRUE VISION DISPLAYS, INC.

TVD050VHL-NV is a rugged 5.0" NVIS-compatible LCD module developed with commercial and military applications in mind. This model features our proprietary T-BRITE technology for superior performance, high brightness LED backlight for sunlight readability, and NVIS mode for compliance with MIL-STD-3009. If your project requires a high-performance LCD display module with NVIS compatibility, look no further.

SPECIFICATIONS

Display	Display Area	101.76 (H) x 74.88 (V)	mm
	Pixels	640 (H) x 480 (V)	pixels
	Pixel Pitch	0.159 (H) x 0.156 (V)	mm
	Display Color	262,144	colors
	Display Mode	Normally White	
	Response Time	40	msec
	Contrast Ratio	400:1	
	Luminance	1,000	cd/m ²
	Viewing Angle	L/R/U/D = 60/60/40/55	Deg
	Interface	TTL / LVDS (This model requires a signal board for LVDS input)	
NVIS Mode	MIL-STD-3009 Class B Neutral Density		
Backlight	Light Source	Dual Mode Backlight (Day Mode / NVIS Mode)	
	Life Time	50,000	Hr
	Connection	Molex 52271-1269 (12pin Zip Connector)	
Power	LCD Power	0.15	W
	Backlight Power	2.15 (21.5V / 0.1A for 1,000cd/m ²)	W
		* NVIS Mode(5.0fl): 0.2W (20.7V / 0.01A)	
	Total Power Consumption	2.3	W
Environment	Operating Temperature	-30 ~ +80	°C
	Storage Temperature	-40 ~ +80	°C
	Humidity	90	%
	Shock	100 (6ms, 3 times each direction ±X, ±Y, ±Z)	G
	Vibration	10~55Hz, 1mm Amplitude, 11min(6 cycles each dir. X, Y, Z)	
Mech.	Outline Dimension	119(H) x 92(V) x 7.25(D) (Typical, w/o Signal Board)	mm
	Weight	115	gram
	Mounting	Compression Fit	
Option	Dimming	0 ~ 100% Dimming with LED Controller	
	Touch Screen	Resistive, Projected Capacitive, Scratch Resistant	
	Glass Bonding	Heater / EMI / Low Reflection / Touch	

True Vision Displays, Inc.
Committed to Quality and Environment.

