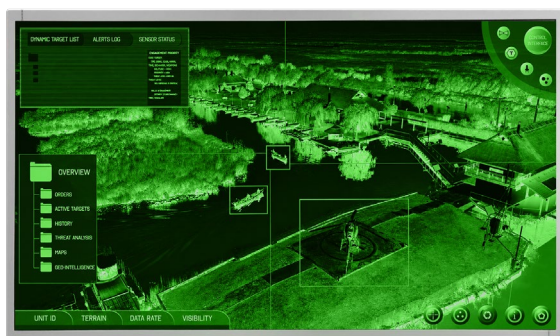


The 21.5" NVIS LCD Development Kit (LDK) is designed for system integration, evaluation, and development of military, defense, and tactical display applications. The kit features a Full HD (1920 × 1080) LCD module with dual-mode backlight design, supporting both 1000 nits Day Mode and MIL-STD-3009 compliant NVIS Green B Mode for seamless operation under daylight and night vision environments. Standard configuration includes, LCD controller board, LED driver board, 9–36V wide-range power board, and horizontal OSD keypad, providing a complete evaluation platform for NVIS display development. The operating temperature range is -10°C to 70°C.



Product Highlights - Advantages and Benefits

- ▶ 21.5" 1920 x 1080 Full HD NVIS LCD Development Kit
- ▶ Dual Mode Backlight Design (Day Mode 1000 nits / NVIS Mode Green B Compliant)
- ▶ LCD Controller Board (Dual LVDS Interface)
- ▶ Backlight Driving Board (B/L Cable to LCD, Driving Board Cable to LCD Controller Board)
- ▶ 9~36V Wide Range Power Board (Power Cable to AD Board, PXC DC PWR Connector)
- ▶ Horizontal OSD Keypad with OSD Cable to LCD Controller Board
- ▶ External Power Adapter (for testing only via PXC DC PWR Connector)

Specifications

LCD	
Max. Resolution	1920 x 1080
Contrast Ratio	1000 : 1
Max. Color	16.7M colors
Luminance (cd/m2)	Day Mode: 1000 nits (Typ.) NVIS Mode: ≤0.5 nit (Customizable) NVIS Green B Compliant
View Angle	89/89/89/89
Touch Screen	
Type	N/A (w/o Touch)
OSD Control	
Front Bezel	Horizontal OSD (Connected via OSD Cable to LCD Controller Board)
Remote	N/A

I/O Connect

Internal Interfaces / Cable Connections	• Dual LVDS Cables (LCD Controller Board to LCD Module) • B/L Cable (LED Driver Board to LCD Module) • Driver Board Cable (LCD Controller Board to LED Driver Board) • Power Cable (Power Board to LCD Controller Board) • OSD Cable (OSD Keypad to LCD Controller Board)
External Power	• PXC DC Power Connector (9~36VDC)

Power Requirement

Power Input	DC 9~36V Wide Range Power Input (9~36V Power Board)
Power Supply	Power Adapter (for testing only, via PXC DC PWR Connector)

Mechanical

Construction	21.5" LCD + LCD Controller Board + B/L Driving Board + 9~36V Power Board + Horizontal OSD
Dimension	LCM Module: 495.6(W) x 292.2(H) x 10.5(D) mm (Typ.); LED Driver Board: 70(L) x 90(W) x 7.1(H) mm

Environment

Operating Temp	-10~70 °C
Storage Temp	-20~80 °C
Humidity	10~90% @40 °C, non-condensing
Vibration	Designed to meet MIL-STD-810H
Shock	Designed to meet MIL-STD-810H
EMC	Designed to meet MIL-STD-461G

Ordering Information

LDK-D215-NVIS	21.5" NVIS LCD Development Kit, Full HD 1920 x 1080, 1000 nits Day Mode, NVIS Green B, AD Board, B/L Driving Board, 9~36V Power Board, Horizontal OSD
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Dimension & I/O Connector

