

The LDK-D256 is a rugged 25.6" (24"x9") bar-type display engineered for extreme environments. Operating reliably from -60°C to +70°C with an integrated heating glass system, it delivers a high-visibility 1500 nits of brightness. Its innovative dual-zone architecture supports completely independent split-screen displays and independent P-Cap touch controls, making it ideal for demanding industrial, transportation, and outdoor applications.



Product Highlights - Advantages and Benefits

- ▶ **Extreme Temperature Resilience (-60°C to +70°C)** : Equipped with an advanced integrated transparent heating glass system for the LCM and localized heaters for the AD boards. Ensures uninterrupted, flawless operation and prevents screen freezing or condensation in ultra-low temperature environments, making it ideal for mission-critical outdoor and aerospace applications.
- ▶ **True Dual-Zone Independent Display Architecture** : Features physically separated left and right display matrices (1600x1200 each), driven by two independent AD boards with its own HDMI input. Allows the simultaneous processing of distinct data streams (e.g., mapping software on the left, instrument gauges on the right) with zero signal tearing or interference, eliminating the need for complex software-based screen partitioning.
- ▶ **Ultra-High Brightness for Sunlight Readability** : Integrates high-efficiency LED back light module delivering an impressive 1500 nits of surface brightness after touch panel bonding. Guarantees crystal-clear visual clarity and superior contrast even under direct sunlight or in high-ambient-light conditions.

Specifications

LCD	
Type	25.6" BAR-TYPE TFT LCD
Max. Resolution	3200 x 1200 (Physical dual-zone architecture: 1600RGB x 1200 per zone)
Contrast Ratio	1000 : 1
Max. Color	16.7M
Luminance (cd/m2)	1500 nits
View Angle	85/85/85/85
Touch	USB, P-cap with Anti-Glare cover glass

I/O Connect

External I/O Port	2 x HDMI In (HDMI #A & HDMI #B supporting completely independent left and right display) 2 x USB (USB #A & USB #B for independent dual-zone touch control without system conflicts) 1 x DC Power Input by Terminal Block 1 x GND Screw for safety grounding
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Specifications

Power Requirement

Power Input	DC 9~36V wide range power input (Typical 28Vdc/12.5A), 250W
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Environment

Dimension	Refer to the drawing next page
Mounting	Not available for LCD kit
Cerfitication	EMC •Not available for LCD kit Vibration • Not available for LCD kit Shock • Not available for LCD kit
Operating Temp	-60°C to +70°C (by an integrated active heating system)
Storage Temp	-60°C to +70°C
Humidity	10~95% @40 °C, non-condensing

Mechanical

Construction	LCD Kit without housing
IP Rating	Not available for LCD kit

Ordering Information

LDK-D256	25.6" BAR-TYPE LCD kit without housing, DC 9~36V Power Input, 1500 nits, Anti-Glare, Optical Bonding, P-cap Touch, EMI-mesh, Heating-glass
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Standard Accessory

1x Terminal Block	Terminal Block for power input
1x Quick Guide	Please Read This Quick Guide Carefully Before Get Started
1x AC/DC Power Adapter	Universal AC input, 24Vdc output, for testing purpose only
1x Power Cord	Plug Type by Customer Request

LDK-D256 Series

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Dimension & I/O Connector

