

ADEN | VMFD 68

VIDEO MULTIFUNCTION DISPLAY

#Avionics



6.2" x 8.3" AMLCD ACTIVE DISPLAY AREA
1024 x 768 RESOLUTION
WIDE VIEWING ANGLE



aselsan

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VIDEO MULTIFUNCTION DISPLAY

VMFD-68 Multifunction Display is designed as color flat panel display using Active Matrix Liquid Crystal Display (AMLCD) technology, with an active display area of 6 by 8 inches. It is specially designed for mission computer applications with analog/digital video input displaying and digital input/output processing capabilities. VMFD-68 includes the ASELSAN Ruggedized LCD Display Module RDM-68, designed in compliance with military display standards.

ADEN VMFD 68 can display DVI 1.0, analog RGB, NTSC, PAL, S-Video and LVDS video inputs for resolutions VGA to XGA.

ADEN VMFD 68 also provides DVI 1.0, NTSC and PAL video outputs of the displayed video for video recording applications.

ADEN VMFD 68 outputs pressed bezel key information via RS-422 and provides detailed maintenance information via RS-232 interface. Sophisticated RS-422 interface protocol provides flexible communication interface to Mission Computers or other airborne computers.

ADEN VMFD 68 has On-Screen-Display to provide extended maintenance and test capability. The VMFD-68 has extended configuration options to support customer specific configurations.

ADEN VMFD 68 can show two input videos simultaneously, providing Picture-in-Picture (analog-over-analog, analog-over-digital), Picture-and-Picture, scaling, de-interlacing, gamma correction and dithering capabilities to enhance both input videos.

General Specifications

- Includes ASELSAN RDM-68 Ruggedized LCD Display Head Assembly
- Wide Dimming Range, NVIS Class B Compatible
- User Configurable Bezel Keys, Portrait / Landscape Selection
- Single LRU Compact Design, Easy to Integrate
- Image/Video Enhancement: Picture-in-Picture
 - Picture-and-Picture
 - De-Interlacing
 - Gamma correction
 - Dithering
- Ideal Match for Mission Computer Applications

Interfaces

- DVI 1.0 Digital Video Inputs
- Analog Video Inputs (RGB,S-Video,CVBS)
- PAL & NTSC Support
- LVDS Digital Video Input
- DVI 1.0 Digital Video Output
- Composite Video Output (PAL/NTSC)
- Serial Interfaces (RS-422, RS-232)
- Discrete I/O Interfaces

Physical Specifications

- Dimensions : 206 mm (W) x 258 mm (H) x 88.5 mm (D)
- Weight : < 4.25 kg

Technical Specifications

- Power Input : 28 VDC (Nominal)
- Power Consumption : 76 W (Nominal) / 220 W (Maximum)
- Power Hold-Up for Short Time Power Interrupts
- Display Type : Color Active Matrix Liquid Crystal Display
- Display Area : 6.21" x 8.28" (10.35" diagonal)
- Resolution : 1024 x 768 (124 color groups per inch)
- Display Color : 16.2 Million Colors
- Viewing Envelope : +/- 60° Horizontal
: + 45° / - 60° Vertical
- Luminance Range : 0.03 fL - 320 fL
- NVIS Compatibility : MIL-L-85762A Class B, MIL-STD-3009

Environmental Conditions

- Operating Temperature and Altitude : -40°C / +55°C, 15,000 ft
- Storage Temperature and Altitude : -55°C / +85°C, 50,000 ft

Qualifications

- MIL-STD-810F
- MIL-STD-461E
- MIL-STD-704F



Specifications are subject to change without any notice. | All tolerances are within ±10%.