

VMFD-68

VIDEO MULTIFUNCTION DISPLAY

6.2" x 8.3" AMLCD
ACTIVE DISPLAY AREA

1024 x 768
RESOLUTION

WIDE
DISPLAY ANGLE





VMFD-68

VIDEO MULTIFUNCTION DISPLAY

VMFD-68 Multifunction Display is ASELSAN designed 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 airborne mission computer applications and features analog/digital video input displaying and digital input/output processing capabilities.

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

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

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.

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.

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.

Display Specifications

- Display Type : Color Active Matrix LCD
- 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° to -60° vertical
- Luminance Range : 0.04 fL - 240 fL
- NVIS Compatibility : MIL-L-85762A, Class B
: MIL-STD-3009

Features

- 2 DVI 1.0 Digital Video Inputs
- 6 Analog Video Inputs (RGB,S-Video,CVBS)
- PAL & NTSC Support
- 1 LVDS Digital Video Input
- 1 DVI 1.0 Digital Video Output
- 1 Composite Video Output (PAL/NTSC)
- Wide dimming range
- NVIS Class B compatible
- User Configurable Bezel Keys
- Portrait / Landscape Selection
- Image/Video Enhancement:
 - Picture-in-Picture
 - Picture-and-Picture
 - De-interlacing
 - Gamma correction
 - Dithering
- Single LRU Compact design
- Easy to integrate
- Ideal match for mission computer applications

Interfaces

- Comm. Interfaces : RS-422, RS-232 and discrete interfaces
- Video Input : Monochrome/color, analog/digital
- Formats : EIA-RS-170 monochrome,
: SMPTE 170M- 2004 standard System M (NTSC),
: CCIR Report 624-4 standard System B,
: G (PAL), STANAG 3350A/B/C standard
- Input Power : 22.5 VDC to 32 VDC
: operational per MIL-STD-704F

Qualifications

- MIL-STD-810
- MIL-STD-461
- MIL-STD-704

Physical Specifications

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

