



Simulated F-16 MFD Multi-Function Display



F-16



F-16 Sim
Cockpit

Product Description

The simulated F-16 MFD (AMLCD) is a high-performance 4.00-inch x 4.00-inch color active matrix liquid crystal display in a 5ATI package for avionics simulation applications. RS170-type video interface can be sync-on-green or separate/composite video sync. This display features:

- § Complete remote adjustment, calibration and diagnostics using a standard PC.
- § High-brightness, wide dimming range backlight creating a display capable of being viewed from direct sunlight down to NVG requirements.
- § Same functional controls and form-factor as the flight display.
- § Built for durability and low life-span cost in simulator applications only, including full motion platforms. Cannot be used in aircraft.

Simulated F-16 MFD Multi-Function Display

Performance Specifications

Resolution: 480 x 480
Total lines per frame: 537
Total pixels per line: 640
Active lines per frame: 480
Active pixels per line: 640 (480 vis)
Frames per second: 60
Fields per frame: 1
Pixel clock: 20.6208 MHz, 48.4947 nsec

Line -
Length: 640 pix els, 31.0366 msec
Frequency: 32.22 KHz, 31.0366 msec
Horizontal Sync: 64 pix els, 3.10366 msec
Horizontal Back porch: 56 pix els, 2.7157 msec
Horizontal Active: 512 pix els, 24.8293 msec
Horizontal Front porch: 7.99999 pix els, 387.957 nsec

Field -
Duration: 343680 pix els, 537 lines, 16.6667 msec
Vertical Sync: 1920 pix els, 3 lines, 93.1099 msec
Vertical Sync Pulse: 1984 pix els, 3.1 lines, 96.2135 msec
Vertical Back Porch: 121160 pix els, 19 lines, 589.696 msec
Vertical Active: 327680 pix els, 512 lines, 15.8908 msec
Vertical Front porch: 1920 pix els, 3 lines, 93.1099 msec

Operating Specifications

Power Requirement: 85-264 V AC, 50 watts maximum consumption, 50 w atts nominal (Depending on Brightness Setting)
Temperature: 0 ° to 40° C operating, -20° to 70° C non-oper ating
Altitude: 0 to 10,000 ft oper ating, 0 to 40,000 ft non-oper ating
Relative Humidity: up to 90% (non-condensing) oper ating, up to 95% (non-condensing) non-oper ating

Mechanical Specifications

Enclosure Height: 5.70"
Enclosure Width: 5.70"
Enclosure Depth: 10"
Enclosure Material: Black anodized aluminum
Cooling: Forced air, intake fan, rear vents
I/O: Video - R, G, B (75 Ohm)
Horizontal/Vertical Sync - (HDD 15 VGA connector)
Dim Control I/O: 9-pin Male DB9
Bezel Control I/O: 37-pin Male DB37
Power: CEE22

Remote Adjustments

- Luminance limits

Warranty

These units are offered with the standard Precision Display Technologies (PDT) warranty of one (1) year on parts and labor for design and/or manufacturing defects in PDT supplied components only (original manufacturers' warranties apply to all CRTs, HUD optics, AMLCDs and bezels). Warranty specifically does not include customer-induced failures or damage caused by shippers.

