

MFD - 6.8/1 portrait



Primary flight display

Main features

- 6" x 8" AMLCD color screen
- 1024 x 768 XGA resolution
- 640 x 480 VGA resolution (800 x 600 SVGA optional)
- NVG compatibility option
- Extensive Built-In Testing (BIT)
- Modular hardware architecture
- Compact design
- Several interface options
- Processing options
- Accepts buyer-furnished software
- Software loadable through connector
- Remote processing unit option for limited space applications
- Full grayscale anti-aliasing while maintaining a 60 Hz data update rate, providing very fluid ADI/HSI operation under worst case screen loading conditions
- Forced air cooling resulting in high reliability and low life cycle cost
- Supports MOSArt™

The MFD-6.8/1 is a Multi-Function, primary flight instrumentation display with a sunlight readable 6" x 8" Active Matrix Liquid Crystal Display. AMLCD technology provides high brightness, excellent contrast and reduced volume with low power consumption.

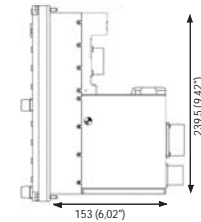
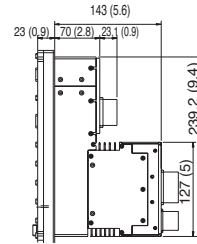
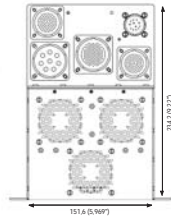
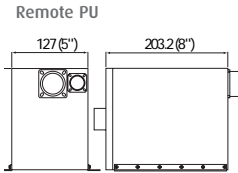
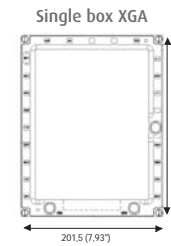
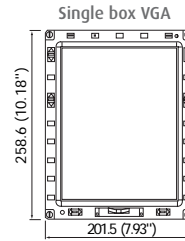
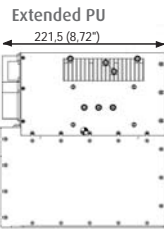
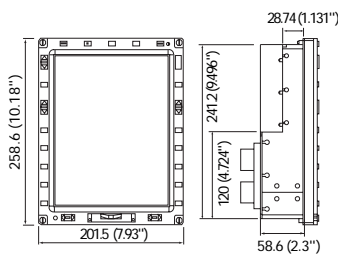
Several bezel options are available allowing the MFD-6.8/1 to fit into various avionics architectures for both new and retrofit aircraft.



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Technical specifications



ELECTRO OPTICAL

Panel type: AMLCD
 Panel active area: 8.31" x 6.23"
 Panel resolution: 640 x 480 (VGA)
 Screen specifications: 264,144 colors, 64 grayscales
 Brightness white: 160 fL (548 cd/m²)
 Contrast ratio: >100:1 @ dark ambient
 >7:1 @ 10,000 fc
 Anti reflection: Multilayer coating MIL-C-14806
 NVG compatibility: MIL-STD-3009 (optional)
 White non-uniformity: <20%
 Viewing angle: Horz: +/- 50°, Vert: +/- 45°

AMLCD
 8.31" x 6.23"
 640 x 480 (VGA)
 264,144 colors, 64 grayscales
 160 fL (548 cd/m²)
 >100:1 @ dark ambient
 >7:1 @ 10,000 fc
 MIL-C-14806
 MIL-STD-3009 (optional)
 <20%
 Horz: +/- 50°, Vert: +/- 45°

AMLCD
 8.31" x 6.23"
 1024 x 768 (XGA)
 16 million colors, 64 grayscales
 220 fL (753.7 cd/m²)
 >250:1 @ dark ambient
 >10:1 @ 10,000 fc
 MIL-C-14806
 MIL-STD-3009 (optional)
 <20%
 Horz: +/- 45°, Vert: -10°/+35°

CONTROLS

Controls (front): Brightness, up/down rocker switch
 Keys: Special function keys
 customer selectable softkeys
 Automatic Light sensors

BRT up/down rocker switch
 Special function keys
 customer selectable softkeys
 Automatic Light sensors

Rotary switches
 Special function keys
 customer selectable softkeys
 Automatic Light sensors

GENERAL DATA

Power supply: 28 Vdc
 Power consumption: Small PU Large PU
 Ambient: 60W 70W
 Cold start: 150W 230W
 Weight: < 8.5kg < 9kg
 Cooling: Natural convection and internal fans
 MTT: Less than 30min
 Built-in Testing: IBIT, CBIT, PBIT
 Software: RTCA/DO-178B

28 Vdc
 70W
 210W
 < 6kg
 internal fans
 Less than 30min
 IBIT, CBIT, PBIT
 RTCA/DO-178B

28 Vdc
 75W
 225W
 < 6kg
 internal fans
 Less than 30min
 IBIT, CBIT, PBIT
 RTCA/DO-178B

INTERFACES

Option boards: Dual redundant MIL-STD-1553B
 Dual analog video input
 ARINC-429 (16 Rx / 8 Tx)
 ARINC-708 (453) weather radar
 ETHERNET 10/100 Mbit
 Discrete I/O (up to 64)
 Analog/Synchro interface
 Serial channels

ENVIRONMENTAL

Qual standard: MIL-STD-810 and RTCA/DO-1600
 High temp: +55°C/131°F cont., +71°C/159° intermittent
 Low temp: -40°C / -40°F
 Humidity: MIL-STD-810
 Vibration: 15g - 11 ms half sine
 Altitude: 50,000 ft
 EMI/EMC: MIL-STD-461 and RTCA/DO-1600
 MTBF: 10,000 hrs (AIC) ex. backlight

COMPUTER DATA

Processor: power PC processor
 SDRAM: up to 256 Mb with ECC
 Flash: up to 256 Mb
 NVSRAM: 256 kB
 L2 cache: 1 Mb

OPTIONS

- SVGA 600 x 800 resolution
- Mass Memory Storage Board
- Landscape version
- Custom bezel layout and inscription
- Digital Map
- MOSArt™

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