

MFD-640

MULTI-FUNCTION DISPLAY



Replace
your

P-300SL

P-400

or other

Radar
Displays

Add
Capabilities
for

TAWS

TCAS

FMS

DME/VOR

Wx Graphics

Lightning

Video

Upgrade for your Radar Indicator

In today's flight environment you need to take advantage of the multitude of information that is available to you. Your cockpit instruments can no longer be dedicated to the display of a single item. Panel real estate is scarce and information is plentiful. Our MFD-640 Multi-Function Display offers a convenient, versatile and powerful retrofit solution.

We've designed a controller to provide full functionality when replacing your older PRIMUS® 300(SL) and 400 weather radar indicators. Our MFD-640 can also be used to upgrade the displays for the Honeywell 880/660/440 series and Collins 850 radars.

You'll gain the ability to access a wealth of additional information including our TAWS Terrain Awareness and Warning System displays in map, profile and 3-D views. View Flight Management System data including your flightplan with surrounding nav aids, airports and more. Monitor VOR/DME bearing/distance on the 360-degree or arc compass rose. Show surrounding air traffic. You can even view uplinked weather maps or access an onboard video camera. Our MFD-640 also features superior sunlight readability, high resolution and contrast, and super-wide viewing angles.

Give us a call. Add these capabilities with the MFD-640 today and be provisioned to take advantage of the operational benefits of the CNS/ATM airspace system of tomorrow.



MFD-640 Specifications

Physical Characteristics

Bezel Dimensions: 5.175 in.x6.675 in.

Image Size: 6.4 in. diagonal viewing area

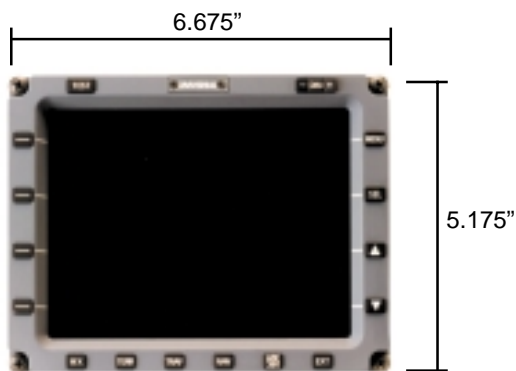
Case Size: 4.975 in. H X 5.975 in. W X 8.27 in. D, excluding connector
(5x6 ATI Standard per Arinc 408)

Weight: 8.5 lbs. max.

Color: Gray or Black faceplate

Connectors: Two D38999 series III connectors

MTBF: In excess of 7,500 hrs.



Power

Primary Input: 28VDC standard

Power Interrupt: 50 msec Hold-Up

Lighting: 5V or 28V

Consumption: 90 Watts max.

Cooling: Fan forced, cold-wall construction

Supported Functions

- Navigation
- Map data
- Flight Plan
- Weather Radar
- Terrain Awareness and Warning System (TAWS)
- Enhanced Ground Proximity Warning System (EGPWS)
- UniLink Images
- Traffic Collision and Avoidance System (TCAS)
- Warnings and Annunciators
- Installation Configuration Module
- Analog Video with Graphics Overlay

Interfaces

Video: 1 port (Universal Std Analog RGBS)

Data Bus I/O: ARINC-429/419 (6 Rx, 2 Tx), ARINC-561/568 (1 port), ARINC-453/708A (2 ports) and RS-422 (CSDB) (2 ports)

Analog Inputs: 40 available depending on configuration (Standard Configurations: Synchro, Rotor, Resolver, Pulse, Analog DC, Analog AC)

Analog Outputs: 4 available depending on configuration (Standard Configurations: Synchro, Rotor, Resolver, Analog DC, Analog AC)

Discrete Inputs: 12 (4 @ + 28V/open and 8 @ ground/open)

Discrete Outputs: 4 (All ground/open)

Configuration Module: EEPROM harness module for installation configuration

Configuration Pins: 5

Optical Specifications

Display: Active Matrix Color LCD

Graphics: 256K colors (true 18-bit color, 6 bits RGB), anti-aliased

Gray Shades: 64 levels per color

Contrast Ratio: >300:1 viewed normal to display in low ambient light

Viewing Angle: +/- 60 deg. horizontal (viewed from normal)
+45/-10 deg. vertical (viewed from normal)

Luminance: Red – 80 fL, Green – 160 fL, Blue – 34 fL, White – 273 fL

Low Luminance: Less than 0.03 fL (white)

Brightness Control: 10,000:1 dimming range (local & auto brightness control available)

High Resolution Control: 256K steps

Optics: Contrast enhancement, UV protection, anti-reflection

Equipment Specifications

FAA TSO: C63c, C105, C113, C119a

RTCA Documents: DO-160D, DO-174, DO-178B

DO-160D Categories: [AZD1]BAB[SM,SB]XXXXXXXXZAZRMXXA



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