Over 20 Weather Radars Supported
Reliable and Efficient LED Backlight System

MFD-640
Multi-Function Display

Display of:
- Weather Radar
- FMS Data
- TAWS
- Synthetic Vision
- Traffic
- Lightning
- Video

Versatile and Powerful
Retrofit Solution

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

The MFD-640 interfaces with a variety of Weather Radar, Terrain Awareness Warning System (TAWS), and traffic avoidance systems as well as onboard video, Vision-1™, Flight Management System (FMS), and lightning detection systems. Its size and extensive interface capabilities makes it a versatile instrument for installation in a host of aircraft platforms, and adds valuable functionality for the operator.

View FMS data including flight plan with surrounding navaids, airports, and more. Monitor VOR/DME bearing /distance on the 360-degree or arc compass rose. Show surrounding air traffic and uplinked weather maps or access an onboard video camera.

The MFD-640 also features superior sunlight readability, high-resolution and contrast, and super-wide viewing angles.

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Supported Interfaces

- Flight Plan Data
- Weather Radar
- Synthetic Vision System
- Terrain Awareness Warning System (TAWS)
- Enhanced Ground Proximity Warning System (EGPWS)
- Traffic Collision Avoidance System (TCAS)
- Lightning Detection Systems
- Video Interface Unit for interface with multiple video sources
- Radar Control Panel for interface with certain radar systems

Video interface with onboard cameras
Photo Credit: L-3 WESCAM - MX Series

Specifications

Hardware

Bezel: 5.17 in. H x 6.67 in. W
Image Size: 3.86 in. H x 5.14 in. W (6.4 in. diagonal)
Case Size: 4.975 in. H x 5.975 in. W x 8.27 in. D, excluding connector
Weight: 7.75 lbs.
Faceplate Color: Gray or Black
Display: Active Matrix Color LCD
Graphics: 256K colors (true 18-bit color, 6 bits RGB), anti-aliased
Gray Shades: 64 levels per color
Viewing Angle: + / - 60 deg. horizontal

Inputs/Outputs

Video: 2 VGA ports
Data Bus I / O: ARINC 429/419 (6 Rx, 2Tx),
    ARINC 561/568 (1port) and ARINC 453/708A (2 ports)
    and RS-422 (CSDB) (2 ports)
Discrete Inputs: 12 (4 @ + 28V/open and 8 @ ground/open)
Discrete Outputs: 4 (All ground / open)

Power

Primary Input: 28 VDC standard
Lighting: 5V or 28V
Consumption: 90 Watts max.
Cooling: External cooling not required
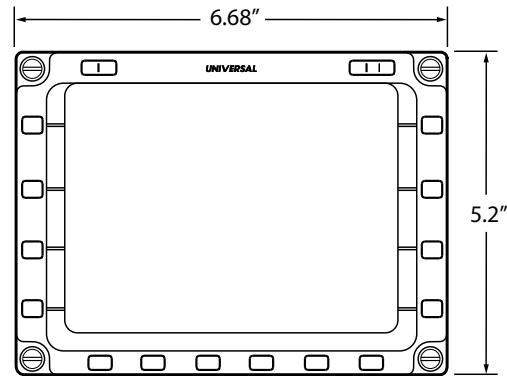
Controls

Function switches and controls enable quick
and effortless mode selection and configuration.

FAA TSO / ETSO

C63c, C105, C113, C119a

RTCA Documents

DO-160D, DO-174, DO-178B
DO-160D Categories:
[AZD1]BAB[SM,SB]XXXXXXZZAZZRMXXA

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Features and capabilities are representative of systems at time of printing.
Please contact your Universal Avionics sales representative for the latest system enhancements.
Specifications and graphic displays contained herein are subject to change without notice.
System features may be limited based on interfacing equipment and type of installation.

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