



Smart MFD & Embedded Digital Map Module

General Description

Elbit Systems' smart MFD with the embedded Digital Map Module (DMM) offers a new way of looking at the world while increasing flight safety and reducing aircrew workload. All navigational and mission data, military or civilian, are presented to the crew, clearly, concisely and conveniently. There are no maps to carry into the cockpit (paperless cockpit). The DMM displays NGA database (CADRG, CIB, DTED) in 2D or 3D display, and in addition Bitmap and JPEG images.

The embedded Digital Map Module (DMM) within Elbit Systems' 6" x 8" Multi-Function Display (MFD) offers the advantage of a digital map system and a smart display in a single package.

Smart MFD & Embedded Digital Map Module

Key Features MFD

- 6" x 8" Smart display, AN/AVS-6 and AN/AVS-7 NVG-compatible color liquid-crystal display with 24 bezel switches
- Displays monochrome Forward Looking Infrared (FLIR) video
- Monitors aircraft Caution/Advisory (C/A) discrete; receives aircraft navigation, communication, and mission data over the avionics data bus
- Supports other display sizes
- Modular Display Head Assembly (DHA)
- Qualified by US Army
- Certified for the U.S. Army HH-60 L/Q

DMM

- Next generation real-time digital map including 2D and 3D displays
- Embedded DMM LRU
- Data center
- Advanced Capabilities
 - Mission Management System (MMS)
 - Tactical situational display
 - Situational awareness
 - Alert, Warning
- Fusion of different map layers (charts, satellite images and terrain data), tactical symbols and mission information providing increased situational awareness
- Uses standard commercial and military map formats (e.g. CADRG, CIB, DTED, JPEG, BITMAPS)
- Simple and generic command and control interface
- Can be installed within a standard avionics unit (mission computers, displays etc...)
- Supports two independent map channels
- Includes internal mass memory storage
- Connects to an external storage device via 1553 or via Ethernet

Technical Information

- 6" x 8" LCD smart display
- NVG-compatible
- Interfaces include: Muxbus 1553, Ethernet, multiple I/O discrete, Video In (RS-170)
- Standard VME LRU
- DMM - 7447A PPC, 1GB SDRAM, CPU rate up to 1Ghz.

Major Advantages

- MFD selected by the US Army for the HH60 L/Q
- Integrated one box solution
- Stand-alone system enables maximum display and map redundancy
- Open system architecture
- Internal mass memory storage for improved performance and operational flexibility
- Easy to install in various aircraft types
- MFD battle proven in OIF

3D Map Display with paper map and contour lines



DMM embedded within the Multifunction Display

