

INSIGHT™ DISPLAY SYSTEM

MD™ 902EXPLORER



NEXT GENERATION FLIGHT DECK

Already well-known as an industry icon for superior performance, MD Helicopters, Inc. is further advancing its MD 902 Explorer through a partnership with advanced avionics manufacturer, Universal Avionics. The InSight integrated flight deck solution will be available through MD Helicopters for production and MD 902 Explorer helicopters.

The InSight Display System for the MD 902 Explorer replaces steam gauge displays with two or three portrait format high-resolution LCD displays with LED backlighting. The 10.4-inch InSight Displays are compatible with Night Vision Goggles (NVG) and provide the latest in Synthetic Vision System (SVS), 2D Topographical Moving Maps, electronic charts, checklists, systems synoptics, engine instruments, rotor data, and more.



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PRIMARY FLIGHT DISPLAY

The Primary Flight Display (PFD) replaces the original factory EADI and EHSI, providing all primary flight parameters, engine, and rotor data directly in front of the pilot. The layout of the information is clear, easy to read, and optimized with Primary Engine parameters including Torque, EGT, and Np / Nr / Np displayed. A reduction in panel clutter is significantly noticeable.

The Synthetic Vision System's (SVS) "Egocentric" pilot's view including obstacles provides the pilot with a perspective as if looking out the flight deck window, offering increased situational awareness in all weather and lighting conditions.

MFD AND EICAS

The center-mounted Multi-Function Display (MFD) replaces the legacy IIDS display and combines traditional MFD functionality with secondary Engine-Indicating and Crew-Alerting System (EICAS). It also supports SVS terrain maps and "Exocentric" (wingman's) views, enhanced multi-layered moving maps with own-ship position, Heli-TAWS, electronic charts, checklists, video, traffic information, and alerts.

Weather radar is also displayed with options for broadcast weather including METARS, TAFS, and TFRS. In addition, flight plan, airports, NAVAIDs, and controlled and special use airspace boundaries, and defined airways can also be displayed.

USER CONTROL

EFIS Control Display Unit

EFIS Control Display Units (ECDU) provide centralized control for system functions. Dedicated Function Keys, along with software programmable Line Select Keys provide positive tactile feel / feedback. Easily-recognized graphical icons are featured on the ECDUs and displays. Most used functions are accessed with only one or two pilot actions.

Alphanumeric Keyboard

The Alphanumeric Keyboard provides tactile user input to the InSight Display System and UNS-1Lw Satellite-Based Augmentation system (SBAS)-Flight Management System (FMS). It also provides a means for uploading InSight databases into the system. Function keys such as NAV, FUEL, and DATA on the keyboard streamline control, while alphanumeric keys can be used to edit and enter information as an alternative to the ECDU.

Cursor Control

Cursor Control mounted on the primary flight controls provides a "point and click" user interface enabling pilots to easily change frequently used PFD and MFD selections while maintaining positive control of the aircraft.

COMPONENTS

- 2 or 3 Portrait Displays
- 2 ECDUs and an Alphanumeric Keyboard (ANK)
- Cursor Control
- Reference Set Panel for SPD / HDG / ASEL selections
- Secure Digital (SD) Card for Nav, Chart, and Checklist Databases
- Redundant units for Engine and CAS functions
- UNS-1Lw SBAS-FMS with integrated controls and moving map flight plan editing



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