


Joint Helmet Mounted Cueing System II



More affordable, and based on the combat proven and legendary Joint Helmet Mounted Cueing System, or JHMCS for short, JHMCS II is an improved helmet mounted display system incorporating today's enhanced technology. JHMCS II is the world's first high definition, color, smart-visor that operates in both day and night mode.

The JHMCS II system is equipped with the most innovative head-tracking technologies available - allowing a pilot to aim sensors and weapons and receive increased situational awareness in whatever direction he or she is looking. Proven symbology, now combined with color, creates a superior system that provides intelligent vision in the cockpit. It provides immediate and accurate recognition of friendly, threat and unknown targets and areas to create a complete view of the air, ground and sea picture for the pilot and aircrew. This is accomplished with time-proven software that integrates accurate intelligence with images, video and sound. Pilots flying with JHMCS II will have a decided advantage when they observe, orient, decide and act.

JHMCS II is a low-cost, low-integration family of helmet mounted display (HMD) solutions designed for new aircraft installation and also as an upgrade/ECP solution for aircraft already equipped with the legacy JHMCS. Digital JHMCS is an upgrade to improve costs, ergonomics, supportability and obsolescence avoidance for aircraft equipped with legacy JHMCS. Using many of the existing components - a Digital JHMCS upgrade is a simple "plug and play" operation.



JHMCS II
INTELLIGENT VISION

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JHMCS II is available in two basic options: An improved digital version - Digital JHMCS for “plug and play” replacement in aircraft currently equipped with the Joint Helmet Mounted Cueing System and JHMCS II for aircraft requiring a new Helmet Mounted Display System installation.

- Digital JHMCS offers magnetic tracking and works with existing JHMCS subsystems.
- JHMCS II is an all-new system which will enable the most advanced features from day one and provides the same HMD performance with a new optical-inertial tracker and operates with a single lightweight Aircraft Interface Unit (ACIU) which does not require cooling, a mounting tray or cockpit mapping.

Both options provide visor projected color video & symbology in a well-balanced lightweight helmet and integrated system. The JHMCS II family of HMDs offers affordability, supportability, capability and ergonomics, all of which are driven by the millions of operating hours accumulated in the real world on the successful legacy JHMCS.

Features

First

JHMCSII is the world’s first high definition, smart-visor that operates in both day and night mode.

Affordable

JHMCSII is based on the combat proven JHMCS and is now more affordable. The JHMCS II is priced to meet a broad range of market needs including reduced budget upgrades and new starts.

Improved

JHMCSII takes advantage of 21st century technology.

- Digital image source replaces JHMCS Cathode Ray Tube (CRT)
- No high voltage requirements
- Reduced routine maintenance
- Improved center of gravity provides greater pilot comfort, especially with NVGs
- No visor trimming
- Helmet borne electronics
- Virtual HUD option
- Embedded virtual training compatible
- Pilot Health Monitoring including hypoxia and G-LOC detection and warning
- Early Pilot warning and aircraft recovery option

Color

JHMCSII has conformal color symbology to improve situational awareness - full color video imagery, FLIR and picture-in-picture. Color de-brief camera.

Symbology provided by JHMCS II

- Virtual HUD
- Highway-in-the-sky
- Data Link
- Blue Forces Tracker
- Defensive Systems
- Designating and Targeting
- CCIP

Detailed Features and Technical Description

- Night module with color symbology is provided by a simple NVG eyepiece replacement kit for fielded NVG F4949/ANVIS-9 NVGs
- JHMCS II displays video, FLIR, and data link information in either full view or picture-in-picture view
- Uplook reticles (puppers) for very high off-boresight sensor slewing
- Small diameter, low voltage vehicle interface (HVI) cable
- Cockpit Unit (CU) which provides high voltage is no longer required
- Helmet mounted avionics significantly improve center of gravity and pilot comfort
- Dual visor configuration available
- Visor projected HD color video and symbology
- Standard HGV-55/P Helmet
- Total head borne weight is 4.3 lbs including oxygen mask
- 28 VDC
- Interface supports MIL-STD-1553, Ethernet, USB, and Wireless
- Fully customizable ICD, display, and logic
- Recordable
- Day module is monocular with a 20 degrees field-of-view (FOV) off the visor projection to the right eye



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