

AVCI

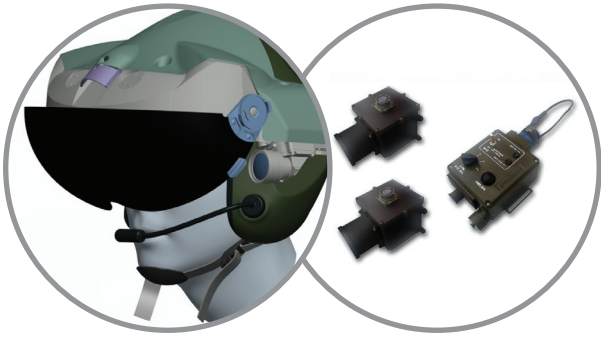
HELMET INTEGRATED CUEING SYSTEM

VISOR PROJECTED, SEE-TROUGH
SYSTEM WITH NIGHT VISION CAPABILITY

40 DEGREES
FIELD OF VIEW

HYBRID (INERTIAL AND OPTICAL)
HEAD TRACKING





AVCI

HELMET INTEGRATED CUEING SYSTEM

AVCI Helmet Integrated Cueing System (HICS) is a visor-projected system. It is designed for helicopter platforms to improve the pilot's situational awareness and increase the capabilities of the pilot and aerial vehicle with its night vision, video, symbology, accurate head tracking.

- Night vision, IR video, navigation and weapon symbology
- Generation of head tracking information for accurate line of sight cueing and targeting
- Personalized inner liner for pilot
- Protection of Pilot's head and face against impact and sharp objects

Subassemblies

- Headgear Unit (assembly of Basic Helmet, Display Module, Head Tracking Module, Connection and Battery Module)
- Electronics Unit (Symbology generation, video processing and head tracking algorithms)
- Cockpit Camera Modules (for head tracking)
- Control Panel (user interface on the platform for adjustments and selections)

Technical Features

Basic Helmet is composed of lightweight composite materials and individually manufactured inner liner specific to the user.

Video, navigation, weapon and platform symbologies and external video (i.e. IR camera, missile seeker) are projected on Pilot's visor. The symbology of the system can be designed according to the platform and user specifications.

Hybrid Head Tracking system, which uses both optical and inertial tracking methods, provides easy cockpit installation.

Electronic Unit

- Custom ATR size
- Symbology Generation Capability
- Video and Symbology Overlay
- 2 x Analog Video Inputs
- 1 x Analog Video Recording Output
- Redundant MIL-STD-1553 Interface
- Ethernet and Serial Communication (RS-232/RS-422/RS-485)
- 28 VDC Operating Power
- MIL-STD-704 compliant
- MIL-STD-810 compliant
- MIL-STD-461 compliant

Headgear

- Personalized, Comfortable and Stable Fit for Pilot's Head
- Hybrid Head Tracking System
- Connection and Battery Module
- Night Vision
- 40° Circular FOV
- Impact and Acoustic Protection
- Clear and Dark Visors