

# Cockpit And Future Displays for Defense And Security (Proceedings of SPIE)

Parameter	Link AHMD	Comments
Safety	No glass in vicinity of face	Plastic combiners
Helmet	Pilot's personal flight helmet / Simulator helmet	User acceptance & Comfort
Platform commonality	Custom mounts for: HGU-55 & HGU-56 helmets	Rotary and Fixed Wing Helmets
Minimum HMD Occlusion/Large Eye Relief	Off-axis optical design	User Acceptance, Enhanced immersion & Eliminating "claustrophobic" sensation
Configuration	Binocular/ Partial overlap	Wide field-of-view, 30° Binocular overlap
Electric Interconnect	All digital	High immunity to radiated EMI
Tether	High-speed fiber optic data bus/very flexible and lightweight	Unrestricted head movement and supports higher bandwidth
Interchangeability/Modularity/Field Maintainability	Any HMD may be assigned to any simulator station/Extensive field repair or replace ability	Increased System Availability, Logistic support, Reduced inventory

TABLE 1: AHMD SYSTEM PARAMETERS

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SPIE, Volume , id. (). Publication Date. Defense, security, cockpit and future displays II: April, , Series: Proceedings / SPIE -- the International Society for Optical Engineering ; v. Title of host publication, Proceedings of SPIE - The International Society for Optical Event, Cockpit and Future Displays for Defense and Security - Orlando, FL. Cockpit Infrastructure, Aerodays Proceedings "Next generation EFB SPIE Defense, Security, and Sensing, April, Baltimore. The usability evaluation of a touch screen in the flight deck. Flying towards the future: An overview of future cockpit technologies and associated Human Factors considerations. Cockpit And Future Displays for Defense And Security (Proceedings of SPIE) of consultants provides the best options for our residential and commercial clients.

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