



Design and Integration Experts for Curved and Spherical Displays



ChromaXR HMD Mixed Reality View

ChromaXR Joint Fires Training System

Overview

The IDSI ChromaXR Joint Fires Training System (JFTS) is a turn-key training solution which includes: a chroma key enclosure, high performance computers and a Varjo XR-3 Focal Edition (FE) Mixed Reality Headset. The system enables Joint Terminal Attack Controllers (JTAC) trainees to perform missions on a virtual battlefield with close air support interfaces such as 9-Line, 5-Line, and Call for Fire. The deployable (JFTS) system is shipped “ready to train” and is the ideal solution for both (JTAC) and Forward Observers (FO) to increase repetitions and sets in a realistic simulated environment.

System Description

ChromaXR JFTS is a “Mixed Reality” (MR) training system enabling hands-on, real-world training while immersed in a virtual Observation Post (OP). Several forms of Mixed Reality scenarios are supported including training with physical devices (ex: LTD, BINO, LRF). The Varjo XR-3 FE Mixed Reality headset has a short focal length for viewing objects at close range (such as an ATAK/WinTAK tablet) thereby expanding the training capabilities of the ChromaXR Joint Fires Training System.

Training Curriculum

Real-world training is supported by Battlespace Simulations’ (BSI) MACE, a physics-based simulation and threat environment that provides computer generated forces featuring full-spectrum mission types including Joint Fires, Fixed/Rotary Wing, Electronic Warfare, ISR, and C2. ARMOR is BSI’s Unity based 3D visualization system which allows for unmatched immersion into the synthetic battlespace when paired with the ChromaXR JFTS.

