

Application Note



Digital Video Record/Replay Systems for WST and C4ISR Training Applications

The Transportable - Video Audio Data System application utilizes the standard AP Labs High Speed Data Recording System (HSDRS) and HSDRS Control Center (HCC) software in the training of weapons system and C4ISR operators.

In the example application (“A”, right) the “test conductor” is located in a physically separate area than the team of operators. The HSDRS chassis (“B”) is controlled by the test conductor via the turnkey HCC GUI software (“C”) on a standard workstation.

The HSDRS acquires, compresses, records and distributes fully synchronized, multi-channel video and audio data. It is ideal for applications that require multiple channels of high resolution RGB video (up to 1600x1280) to be synchronized and recorded with NTSC video, audio and other data sources. The recorded data is stored on local SCSI disks contained within the HSDRS chassis or can be archived remotely across the network.

The HCC software enables the test conductor to monitor, record, and replay the actions of the operators under test. Real-time monitoring of the video is available both locally at the HSDRS and across the network using the AP Labs standard Digital Video Player (DVP) decompression software. Similarly, post-test display of the video can be done either in hardware with the HSDRS or on a standard workstation with the DVP. For large tests, multiple systems can be controlled from a central networked location with the Multi-HSDRS version of HCC.

Optional interface support is available for GPS/IRIG time stamps, MIL-STD-1553 data, and RS-232/RS-422 serial communications data

