Selecting an image generator for today’s immersive military and commercial aviation training environments requires careful consideration of several critical factors to ensure success of the training mission: preservation of prior synthetic environment investments, extending hardware life-cycle in a commercial off-the-shelf environment, and rapid software updates to maintain cockpit concurrency over the life cycle of the training device.

The EP®-8100 image generation system is designed for mission success. In a market where all other image generators are based on video-game graphics cards, the EP-8100 is driven by real-time, simulation-specific graphics cards and software designed for your real mission. It provides unmatched procurement cycles of five to eight years and life-cycle support in excess of 15 years. While leveraging game-like concepts, the real-time software is specifically designed for simulation and training applications by using special effects and features such as regional and weather.

Creating synthetic environments to meet training objectives for operational platforms is a costly endeavor in both time and money. The Rockwell Collins Database Generation System (DBGS) includes conversion software to allow existing Rockwell Collins synthetic environments as well as numerous military and industry standard synthetic environments to run on the EP-8100.

Converted environments can be executed in their original form or enhanced to take advantage of the unique capabilities of the EP-8100. Converted environments – enhanced or not – can be exported into original formats for continued customer environment preservation.

The EP-8100 Scene Processor 2 (SP2) graphics boards are based on field programmable gate array (FPGA) technologies, commonly used across multiple industries, from automotive to medical.

Updates of the software for program-specific requirements or vehicle capability concurrency updates require no hardware changes and can be performed in the field.

The SP2 is available in a single- and dual-node configuration in a 2U rack footprint and includes embedded sensor capability, which eliminates the additional hardware previously required for sensor rendering.
Building trust every day.

Rockwell Collins delivers innovative aviation and high-integrity solutions that transform commercial and government customers’ futures worldwide. Backed by a global network of service and support, we are deeply committed to putting our solutions to work for you, whenever and wherever you need us. In this way, working together, we build trust. Every day.

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