

Network accessible •  
Semi-automated •  
Modular • Affordable •

# Digital Experience Guardian (DXG)

Audio and Colorimetry Monitoring System  
...with room for expansion

|D|i|g|i|t|a|l| |T|e|s|t| |T|o|o|l|s|<sup>L</sup><sub>L</sub>C  
Specialists In Post-Installation Compliance

The DXG features an internet accessible GUI and common database interfaces (e.g.: xml, SQL, .NET). It is therefore well suited for integration as the reality-based component of every A/V Network Management/Quality Control System.

To meet security concerns, the results of the audio and color sensors always leave the system as data, never picture or sound. *The DXG is specifically designed to not function as a substitute for a calibration tool.* Instead, a baseline sample is captured by the DXG after an auditorium is calibrated. Then the 'delta', that is, changes from the sound and picture baselines, are sent to the technical and quality control personnel.

The components are suspended just above the light path of the projector. The color/luminance sensors are placed up to 3 meters from the screen. They are connected by RS-485 cables to the main case which is suspended 2/3rds distance from the screen, a typical distance to measure sound from.

There are 5 microphones in the main microprocessor case, to monitor audio level, THD and phase. One (or several) remote DXG colorimetry sensors monitor R, G, B and luminance changes and color temperature at one or several places on the screen.

The DXG system is powered by PoE (Power over Ethernet), or by USB if connected with a portable computer and used with a tripod.

The system takes readings using DCPs full of colors and sounds. Future software will include the capacity to monitor other input devices such as satellite and cable feeds, and blu ray players.

The roadmap includes:

Option 1 – Forensic Marking Verification Tool™; AES-encrypted, VPN networked. Secure dual-feed camera includes ultra-low-quality (CCTV-style) monitoring feed.

Option 2 – HI / VI Signal Verification Tool™.

Option 3 – Phone Blocking system (where legal.)

