

Aurora integration with Pixel Power



Aurora file-based QC integrated within the Pixel Power easy-to-use, reliable and efficient ingest to playout workflow - delivering confidence in your media before playout

In today's playout environment, ease-of-use is more than a luxury. It is a business necessity. Pixel Power addresses this requirement by delivering integrated workflows with their own innovative and market leading products. Gallium Workflow and the ChannelMaster channel-in-a-box integrated playout system combine with best of breed third party products to deliver easy-to-use, reliable and efficient solutions from ingest to playout. To ensure the quality of the media files before they are played to air, Pixel Power has integrated the Aurora automated file-based QC from Tektronix into this workflow.

Aurora is the automated file-based QC tool that you can rely on to place in your Pixel Power workflow to identify any visual, audio or metadata issues at ingest and before playout. The Tektronix focus on minimising false positives and a high degree of correlation to human perception means that our test reports highlight just the issues you need to address. Our architecture delivers guaranteed QC capacity and unrivalled speed of QC analysis to meet the demands for whatever your size of playout operation. As an integral part of the Pixel Power workflow, Aurora delivers you confidence that your media meets the standards required before playout.

Pixel Power

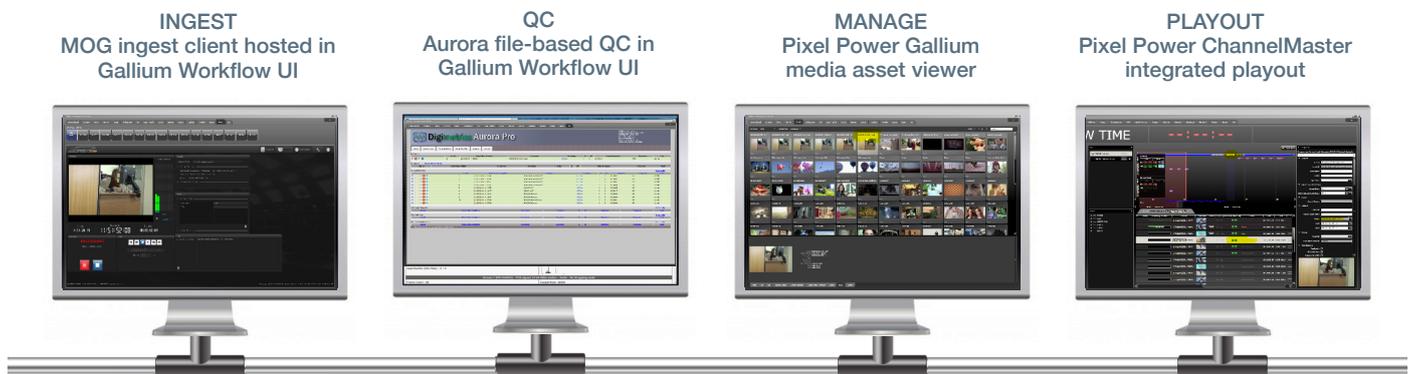
For more than 25 years, Pixel Power has been helping media companies around the world bring their brands to life. Pixel Power develops, distributes and supports the technologies and solutions that media companies rely on to create their on-air identity, enhance their content with stunning graphics, and deliver their services anywhere there is an audience. From smartphones and PCs, to TVs and massive stadium displays, Pixel Power's efficient and effective workflows ensure maximum impact both on audiences and the bottom line.

Aurora

Visual artifacts that can be detected by Aurora include Macro-block Noise/Cloud, Up-conversion, Comb Artifacts, Field Order Swaps, Tape/Digital Hits, Perceptual & Film Artifacts, Black/Freeze Frames, Letter-boxing/Pillar-boxing, Color Bars, PSE/Flash Detection, and Cadence Change. Audio artifacts that can be tested include Silence, Drop-outs, Peaks (dBTP, PPM, dBFS), Average Levels (R128, ATSC, ARIB), Clipping, Snaps/Clicks/Pops, Test Tones, Phase Swaps and Hiss/Hum.

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Solution Architecture and Workflow Overview



Pixel Power hosts the MOG Technologies ingest client within its Gallium Workflow UI. A router control panel can be configured on the same layout to enable the selection of the source for live record, with manual or scheduled recording using the MOG interface. MOG will also control a VTR for tape based ingest from a list or under manual control. When the ingest is completed the file is sent to the Tektronix Aurora server for QC checking.

Aurora VUs (verification units) are installed on separate standard IT hardware servers, blades or fully virtualized infrastructure. The quantity of VUs installed and the number of servers depends on the number of concurrent QC tasks and the speed of QC analysis required. One or more Aurora Controllers are installed to manage QC job queues, allocating QC tasks to the next available VU instance. Each VU tests one file at a time with dedicated CPUs and GPU acceleration for guaranteed QC capacity.

The Tektronix Aurora client is also hosted in the Gallium Workflow UI. When the ingest is complete the file will appear in the Aurora client work queue and be checked against an appropriate test profile. Once the check is complete a report is produced which can be viewed as HTML or PDF. If the QC check is successful Tektronix pushes the checked file onto secondary storage, from where it becomes available in the Gallium media asset viewer.

The successfully QC'd asset can be added to the live schedule or be ready for airing at a later date or time. The Gallium asset distribution engine will move the media from secondary storage to the ChannelMaster local cache ready for playout. ChannelMaster can also play media directly from suitably performant NAS or SAN.

Contact Us

For complete information and sales contacts, go to www.tektronix.com/file-based-qc.