sgi®

SGI and The Pixel Farm Present 2K and 4K Solutions for Digital Dailies, Image Preparation and Quality Assurance

An Uncompressed, Resolution-independent Playback and Review System Featuring The Pixel Farm® PFPlay™ and PFClean™ Applications and the Silicon Graphics Prism™ Visualization System

Features

- Uncompressed 2K and 4K playback on the SGI 64-bit Linux® platform
- Real-time 24 FPS playback from SAN or direct attached storage
- High reliability and availability
- Eliminates major bottlenecks in the mastering process
- Flexible and fully scalable platform as production requirements increase
- Meets the 4K quality resolution levels stipulated by Digital Cinema Initiative (DCI)
- Collaborative management tools provided in the optional PFPlay Project Manager application enable various sites to access, annotate and augment content
- Automated dust, scratch and image preparation for scanned 2K/4K plates prior to post production are offered in the optional PFClean application

PFPlay™   **PFClean™**

SGI provides the entertainment and media industries with products and partner solutions that help them attain the highest image quality and interactive performance in the creative process. The SGI® 2K and 4K Solutions for Digital Dailies and Quality Assurance address the widespread adoption of 2K mastering and the growing demand for 4K as part of the DCI-recommended practice.

Take Full Advantage of New Display Technologies

PFPlay, the leading review and quality assurance application for digital dailies, takes full advantage of the 4K capabilities of the Silicon Graphics Prism system. Combined with new digital display technologies, such as the Sony® SXRD™ projector, this solution provides a breakthrough approach for enhancing the uncompressed 4K workflow within the digital cinema mastering community. For the first time it is possible for production facilities and studios to review dailies, shots, or an entire production at uncompressed 4K resolution allowing even the slightest flaws to be identified and fixed before any film is printed. Using real-time 3D look up table (LUT) technology, PFPlay allows all output devices to be color calibrated to ensure a match between what you see and what you will get. The system also integrates with all current projection and display technologies at any resolution allowing maximum flexibility.

Dramatically Speed Up the Review and Approval Process

PFPlay can be used with local storage at a departmental level or can function as a network-attached device for a facility-wide resource. PFPlay will automatically ingest digital film images, stored throughout a facility over networks, and assemble them using industry standard EDLs from the actual film edit timeline. This dramatically speeds up the review and approval process. The film is scanned once, and everyone involved in the post production environment can review work in context. Any further timeline updates can then be scheduled – or manually instigated – thus ensuring that the latest version of the project edit is always available for review. No more approval delays, film run out costs, or multi-version confusion.

PFPlay Project Manager Option: Adding the PFPlay Project Manager feature provides a means to remotely administer the system from any web browser. User log-ins keep project information secure and only available to approved staff.
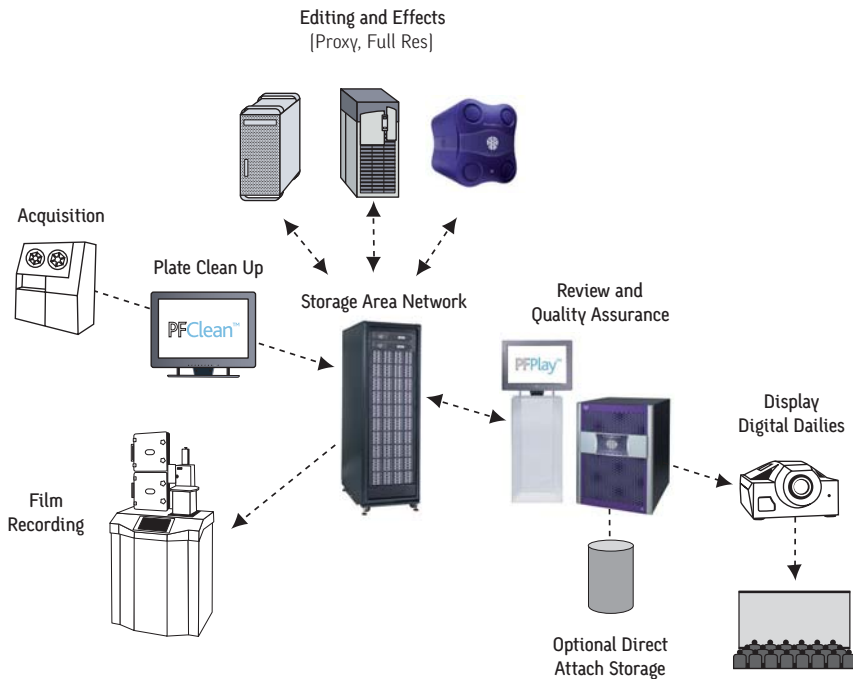
Get from Scan to Post Faster

PFClean is a fast and flexible image clean up application designed for use with scanned image data prior to the commencement of the VFX, post production and the digital intermediates (DI) process. Built on The Pixel Farm's extensive research in the areas of optical flow analysis and real-time playback technologies, PFClean features a comprehensive set of resolution independent tools to clean up and prepare plates. Tools include dust busting, scratch removal, 3D stabilization, rig/wire removal and a complete suite of grain tools. PFClean also has full support for defect maps produced by scanners with Infrared capability.

PFClean operates flexibly in an ever changing post production environment, working as a manual, fully automatic or hybrid system, allowing the user to define plates or anomalies to be fixed in a non destructive environment. The PFClean application can be run on the same SGI Prism system as PFPlay.

SGI and The Pixel Farm Present 2K and 4K Solutions for Digital Dailies, Image Preparation and Quality Assurance

Editing and Effects
(Proxy, Full Res)

Acquisition

Plate Clean Up

Storage Area Network

Review and
Quality Assurance

Display
Digital Dailies

Film
Recording

Optional Direct
Attach Storage

In PFPlay, real-time, 3D LUT support allows output devices to be calibrated for a "WYSIWIG" environment.

PFPlay allows timelines to be manually built or automatically conformed from EDLs. The optional PFPlay Project Manager feature allows remote administrations.

Flexible and Fully Scalable Platform Protects Your Investment

The modular nature of the Silicon Graphics Prism system means when more bandwidth is required it can be added to the existing system, protecting your investment. This solution supports 2K and 4K playback, but can be scaled to higher resolutions when required using the unique SGI multi-pipe architecture.

Optional Storage Networking System

SGI® InfiniteStorage systems enable facilities to create, manage and distribute high resolution content efficiently and cost effectively. Guaranteed latency provides a rock-solid, reliable source of data for film scanners and printers, ensuring that mastering facilities win the race to distribution by keeping projects on schedule, while enabling the support of multiple projects simultaneously and securely. Guaranteed latency also maintains complete synchronization with film scanners, ensuring integrity of film and television titles to digital formats. With the industry's highest available bandwidth, the SGI RM660 and 6700 storage systems provide ample performance and capacity for mastering HD, 2K and 4K content workflows. The SGI storage systems give production managers the ability to choose the right applications for the project, regardless of operating system. By combining the best-of-class applications with the appropriate storage offerings in a shared file system, project content can be managed securely and effectively throughout the workflow, from acquisition to archiving.

Solution Specifications

Feature	SGI Digital Dailies 2K PFPlay Solution with optional 4K film plate review	SGI Digital Dailies 4K PFPlay Solution
Visualization System	Silicon Graphics Prism – Deskside Level	Silicon Graphics Prism – Power Level
Processor Quantity	2	6 or more
Graphics Pipes	2	4
Memory	4GB minimum – 24GB maximum	12GB minimum – 72GB maximum
Form Factor	Deskside	17U short 19" rack
DI Review and Quality Assurance System	The Pixel Farm PFPlay Application + PFPlay Project Manager Feature (optional) + PFClean Application (optional)	The Pixel Farm PFPlay Application + PFPlay Project Manager Feature (optional) + PFClean Application (optional)
Optional Storage Networking System	SGI InfiniteStorage RM660 or 6700 Storage System	SGI InfiniteStorage RM660 or 6700 Storage System

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