Specifically designed to solve Media & Entertainment workflow challenges, PixStor is the only storage solution offering performance, scalability, data management and protection, security and systems management, collaboration and data sharing, enhanced search and cloud functionality - all in a single platform. This allows media organizations to accelerate Any-K workflows and store valuable assets more safely and cost-effectively.

Guaranteed Performance, Scalability and Choice

Specifically designed to solve Media & Entertainment workflow challenges, PixStor is the only storage solution offering performance, scalability, data management and protection, security and systems management, collaboration and data sharing, enhanced search and cloud functionality - all in a single platform. This allows media organizations to accelerate Any-K workflows and store valuable assets more safely and cost-effectively.

The Media & Entertainment Data Challenge

Making today’s complex creative ideas come to life is only possible with cutting-edge technologies. The advent of Any-K workflows (UHD, 4K, 8K and beyond) have overwhelmed the throughput capabilities of creative studios, due to the enormous volume of data that is bottlenecked behind Scale-Out NAS and Fibre Channel SAN. Fortunately, a simultaneous revolution in storage is occurring – delivering new levels of breakthrough performance combined with actionable data tools offered at a great price.

Supporting Any-K Workflows With More Capabilities At Lower Cost Than Any Other Storage Solution

PixStor is a high performance, highly scalable, enterprise-class software-defined storage platform that empowers creative studios to search, manage, securely isolate and protect their data, collaborate and share across distance, and run in the cloud. Its foundation leverages industry-standard compute, flash and disk platforms and high performance Ethernet to deliver a unified system that guarantees performance with limitless scale at lower cost than traditional legacy solutions.

Data moves seamlessly through many tiers of storage – from fast flash and disk tiers to cost-effective, high capacity object storage, all the way out to the cloud – backed by a policy and event engine that puts all data at artists fingertips. This allows media organizations to accelerate high resolution workflows and protect valuable assets safely and economically.
PixStor is powered by a proven high-performance parallel file system trusted by thousands of organizations worldwide. It can easily manage petabytes of data and billions of files, all under a single global namespace. The data architecture foundation relies on a scatter algorithm to distribute writes across spinning disk, removing the impact of fragmentation on performance so there is no bandwidth degradation as the system fills – as is common on most file systems.

The performance of the system enables multiple workloads to run full out up at to 99% capacity – with no negative effect on finishing editors’ or artists’ user experience. All other high-performance shared-access storage solutions require defragmentation to restore performance as they fill, causing downtime and loss of bandwidth. With the introduction of modern flash technologies, PixStor now supports the latest in NVMeOF, creating an ultrafast Tier-0 extreme-performance storage layer alongside traditional spinning disk tiers, all within a single namespace. There’s literally no creative project that exceeds PixStor’s scalable performance capabilities.

**Under The Hood: What Makes PixStor So Capable**

PixStor features an easy to manage storage user interface with centralized control of all file system components. The UI provides a graphical dashboard for monitoring, alerts and performance analytics, and is tailored to the exact needs of the administrator to empower the organization with unprecedented insight into data usage and trends.

Pixit Media’s focus on workflow solutions led to development of PixStor’s Actionable Data Toolset, composed of Python and REST APIs for file system automation and integration. As workflow solutions experts, Pixit Media engineered PixStor so it can be tailored to the needs of every creative studio organization, such as pipeline tooling capability and delivery.

An Industrial Strength, Robust, Easy to Manage Storage Platform with Actionable Data Tools

Pixit Media’s focus on workflow solutions led to development of PixStor’s Actionable Data Toolset, composed of Python and REST APIs for file system automation and integration. As workflow solutions experts, Pixit Media engineered PixStor so it can be tailored to the needs of every creative studio organization, such as pipeline tooling capability and delivery.

NEW TO PIXSTOR:

**Multi-Tenancy On A Single Storage Fabric Delivers Audit-Compliant Security Services for A-List Clients**

For creative studios seeking to take on a larger project requiring audit-compliant multi-tenant data separation, the only solution was to buy a second storage platform and physically separate them on a VLAN network. This adds significant cost and complexity to every facility, and PixStor overcomes this by introducing container-based support.

Now the same PixStor that already guarantees performance and scalability is capable of being configured to run two completely separate instances of data, fully multi-tenant and security-compliant. Users in one namespace cannot communicate to a neighboring namespace, even if a user accidentally escapes their own namespace. With reference architectures aligned to industry-set audit standards, PixStor Container Services provide a storage environment in which content is isolated, enabling you to create shared storage workflows that keep high value content secure in a cost effective manner.
Creative organizations generate exponentially larger amounts of data. Locating specific data through manual techniques is increasingly problematic, to the point where valuable data is effectively lost forever. To solve this problem, PixStor Search provides fast indexing and search capabilities across all your creative assets. It is designed to handle hundreds of millions of files, automatically capturing custom or standard metadata about those files, and allowing easy and meaningful searches across the entire PixStor global namespace.

PixStor Search harvests metadata directly from images, videos, sequences and documents, and can leverage machine learning tools such as MachineBox to extract data patterns and search against non-existing metadata. PixStor Search reduces the need for human intervention when curating data by transcoding media into preview proxies for quick browsing and result validation. PixStor Search provides a user-friendly interface for interactively searching across these data sets and reveals these assets at the Desktop level for quick insertion into creative applications.

PixStor guarantees performance so VFX, finishing and rendering workloads can all run at maximum speed without effecting editors’ or artists’ user experience. When data needs to move, the PixStor Ngenea data tiering engine can migrate data to the cloud to facilitate efficient Burst Rendering onto unlimited compute nodes to take on extra projects or accelerate schedules. Ngenea minimizes data transfer and maximizes data locality by caching on premises data close to cloud computing resources. Results are automatically transferred back to on-premises PixStor with no manual intervention.

PixStor Search Rapidly Locates Valuable Data With Machine Learning & AI For Creative Applications

PixStor is available in the GCP Marketplace as a storage configuration option. Creative facilities can leverage the powerful API policy and event engine tooling of PixStor to stage workflows in GCP for data burst, cloud render, and remote media processing via local or cloud-based applications.

NEW TO PIXSTOR: Unlock Hybrid & Cloud-First Workflows

Scale In Any Direction By Combining all Workflows in a Single Namespace across Local & Cloud
The De Facto Standard Trusted by the Best in the Industry

Our solutions are deployed by hundreds of leading content creation, post, VFX and distribution organizations around the world. We have been counted on to deliver numerous commercially successful Oscar, BAFTA and Emmy winning TV and Film VFX, Commercials and Music Videos.

Libegrate Your Workflow

PixStor is deployed as software-defined storage on industry-standard hardware, with no vendor lock-in, and includes most data protection services at no extra charge – providing media organizations economic advantage and more purchasing power, now and in the future. The PixStor architecture scales in capacity, performance and capability – on premise and in the cloud – linearly and independently, by simply adding components to the existing infrastructure.

And since PixStor is completely open, new technology like NVMe and the latest object storage or cloud integration can be easily added from multiple vendors moving forward, ensuring economic architectural longevity that’s adaptable to meet the most demanding media data management and workflow challenges the future brings.

Freedom to Change: The Software-Defined PixStor Economic Advantage

Pixit Media delivers PixStor as a complete support experience for the entire solution, including all industry-standard hardware components in the PixStor architecture.

- “Disk to desktop” holistic solution
- Single point of contact multi-vendor incident management ensures SLA’s and top-quality support experience is delivered.
- Direct access to knowledgeable expertise from Pixit staff with direct M&E experience.
- Regular maintenance tasks such as firmware and upgrades are handled by PixStor support, rather than the customer’s technical staff.
- Alerts generated by the system are proactively investigated and escalated by PixStor support.

For more information on all Pixit Media Solutions:
T: +44 (0)845 052 3721 | E: info@pixitmedia.com | W: pixitmedia.com

PIXSTOR-5-1906