pixitmedia
by DataCore

Pixstor

High-performance shared storage platform for media workflows

Benefits

- Parallel file system architecture delivers the high IOPS and low latency that media workflows demand
- Search, find, and access any asset across cloud and on-prem storage instantly
- Scale from small teams to tens of thousands of CPU and GPU compute nodes without disruption
- Consolidate on-premises and cloud pipelines with no lock-in
- Protect assets with encryption at rest, AD integration, file auditing, and MPAA/TPN-aligned security
- Integrate with existing media tools and workflows
- Access data in its original form at any point in the namespace

Modern media workflows generate enormous volumes of data across multiple sites, teams, and cloud environments. As projects grow in scale and complexity, storage that cannot keep up creates bottlenecks that slow artists, editors, and finishing teams.

Most storage platforms lose performance as they fill up, cannot span locations without complexity, and offer little visibility into where data lives or what it costs. For media organizations running 24/7, that is not good enough.

Pixstor

Pixstor is a high performance, multi-tier parallel file system purpose-built for demanding media environments. It delivers the low-latency performance needed to keep production workflows moving, giving applications and users fast, reliable access to large media datasets as projects scale in size and complexity.

Unlike general-purpose NAS, Pixstor is designed around the full media lifecycle – from ingest and creation through to distribution and archive. NVMe-ready and built to feed the most data-hungry workflows, it supports parallel data processing across large compute environments without ever trading performance for capacity.

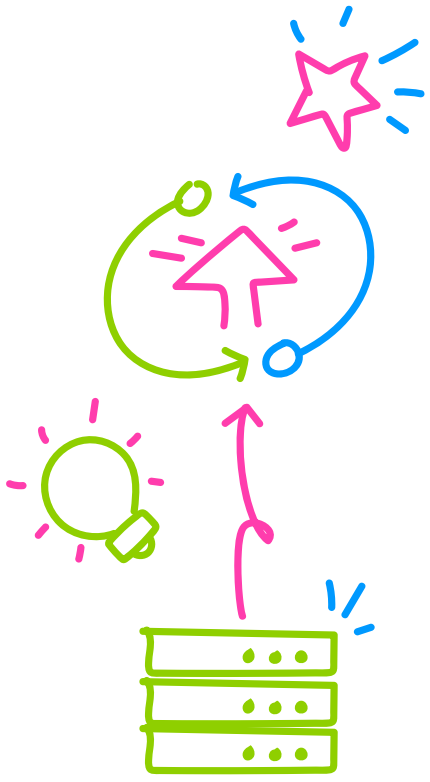
When combined with Ngenea, Pixitmedia's data orchestration layer, Pixstor can extend into a global namespace spanning production, archive, cloud, and other storage tiers. Ngenea automates data movement between storage classes, keeping high-speed storage reserved for active work and everything else moved to cost-effective nearline or archive (both on-prem or cloud). All while maintaining a single, consistent view for users and applications.

Feature Highlights of Pixstor Combined with Ngenea

Performance & Scale	Data Management	Security & Compliance
• Tier-0 performance for demanding workflows, up to and beyond 100GBps of total throughput • High IOPS, high throughput, low latency parallel file system • NVMe-ready architecture with NVMe-oF and GPUDirect support • Supports tens of thousands of CPU and GPU compute nodes • 10/25/100 GbE networking • Petabyte scale, billions of files	• Industry-leading policy engine • Intelligent tiering across cloud, file system, tape, and third-party NAS • Synchronous and asynchronous replication • Unified global namespace across all tiers and locations • Built-in search and metadata indexing across all tiers • Inline compression and deduplication	• Encryption at rest • AD integration and file auditing • Segregated NAS shares for studio compliance • MPAA and TPN best practice alignment • Granular admin control with performance dashboards • Immutability and data retention policies using snapshots and ACL enforcement

Platform Specifications

Specification	Detail
Architecture	High performance, multi-tier parallel file system
Deployment	On-prem, cloud, edge, hybrid
Protocols	SMB, NFS, S3[VM1.1], POSIX, SFTP
Networking	10/25/100 GbE
Tiering	NVMe, SSD, Nearline Disk Object, Tape, third-party NAS *using Ngenea
Security	Encryption at rest, AD integration, file auditing
API	Ngenea REST API for workflow integration



Deployment Options

Pixstor is available as a turnkey appliance – pre-configured hardware and software in one integrated platform, tested and ready to run from day one. Compact enough to deploy at the edge, it suits remote production sites, satellite facilities, and on-location workflows as well as central on-prem environments.

Pixstor is also available via cloud marketplace. For teams running workloads across multiple environments, it connects on-prem and cloud under a single global namespace, scaling fluidly as demand changes.

"With Pixstor we have a proven, highly resilient storage architecture upon which we can rely. Combine this with Pixitmedia's consultative approach, access to their workflow experts and 24/7 support services, we also have a responsive technology partner to help us reap the benefits and future possibilities of a software-defined environment."

David Travis
Chief Product & Technology Officer, Red Bee Media

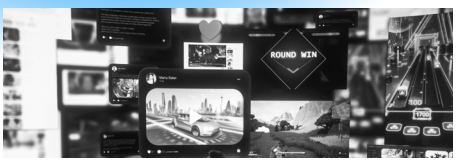
Use Cases Powered by Pixstor and Ngenea

Broadcast and live production

Keep pace with live ingest by giving editors access to content the moment recording begins. Growing file support means finishing teams can start work without waiting for ingest to complete, reducing time to air.

Multi-site post-production

Unite distributed creative teams across facilities and time zones under a single namespace. Artists, editors, and VFX teams share the same view of project assets without duplicating files or managing separate storage systems.



Cloud burst and render farm scaling

Extend workflows into the cloud when compute demand spikes. Data moves automatically to where it is needed, and temporary files are managed by policy, keeping cloud and egress costs under control.

Archive and content monetization

Move content to lower-cost tiers – object storage, tape, or cloud archive – without losing visibility. Archived assets remain searchable and accessible, turning the archive from a cost center into a usable library.

Storage consolidation

Bring fragmented storage systems together without disrupting live workflows. Existing infrastructure stays in place while data is reorganized, tiered, or migrated in the background.

Integrations

Pixstor integrates with industry-standard media and production tools including AWS Deadline Cloud, Projective Strawberry, OpenCue, and Autodesk Flow. Python and REST API support enables custom workflow integration.

Support

Pixitmedia offers 24×7×365 support through web portal, email, and phone, with severity-based response targets. Support is delivered through a global follow-the-sun model, helping customers access assistance across time zones.

Need consistent performance as your media data scales?

Contact us to see how Pixstor delivers high-performance storage and data management for demanding media workflows.

pixitmedia by DataCore

Pixitmedia by DataCore is a leading provider of intelligent content and metadata management solutions for the media and entertainment industry. Our multi-tier technology combines high-performance access, storage, and archiving with powerful orchestration and AI tools to simplify workflows. Built on an open architecture, Pixitmedia enables seamless collaboration while keeping assets searchable, protected, and available when they're needed.

For further insights, visit:

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