

# B·A INSTRUMENTS

DIVISION OF BROADCAST ARCHITECH



**XSTREAMAM**

UNIVERSAL PREMIUM AI POWER MAM

**XGESTORE**

UNIVERSAL PREMIUM INGEST MACHINE

**XSPEEDLUX**

UNIVERSAL PREMIUM STATION FOR  
COLORGRADING AND RENDERING

**XSTREAMSTORE**

UNIVERSAL PREMIUM STORAGE FOR MEDIA



ARCHIWARE



storageDNA®

2025 EDITION



## CLEVER GEAR FOR SMART PEOPLE



### Our social networks



: **[broadcast-architech.com](http://broadcast-architech.com)**



: **Broadcast Architech**



: **Broadcast Architech**



: **[broadcast.architech](https://www.instagram.com/broadcast.architech)**



: **Broadcast Architech**



: **B\_Architech**

		HDD					SSD		NVME	
Flux	Modèles	12 HDD	16 HDD	24 HDD	36 HDD	60 HDD	8 SSD	24 SSD	10 NVME	24 NVME
<b>DNxHR HQX UHD 50p</b> 1,46 Gb/s ( 182 Mo/s )		2	2	4	6	11	17	51	18	118
<b>DNxHD 220</b> 220 Mb/s ( 28 Mo/s )		14	18	28	40	64	111	333	535	1284
<b>DNxHD 185</b> 185 Mb/s ( 24 Mo/s )		18	18	30	44	70	130	390	625	1500
<b>DNxHD 120</b> 120 Mb/s ( 16 Mo/s )		20	26	40	60	100	195	585	937	2248
<b>DNxHD 36</b> 36 Mb/s ( 4 Mo/s )		60	80	120	180	280	780	2 340	3 750	9 000
<b>ProRes HQ 4/2/2 UHD 50p</b> 1,65 Gb/s ( 206 Mo/s )		2	2	4	6	11	15	46	69	166
<b>ProRes 4/4/4/4 330 HD</b> 330 Mb/s ( 42 Mo/s )		10	13	20	30	48	74	222	357	856
<b>ProRes HQ 4/2/2 220 HD</b> 220 Mb/s ( 28 Mo/s )		13	18	28	40	64	111	334	535	1 284
<b>ProRes PROXY 4/2/2 36 HD</b> 36 Mb/s ( 4 Mo/s )		60	80	120	180	280	780	2340	3750	9000
<b>XAVC 4K 50p</b> 500 Mb/s ( 62 Mo/s )		7	10	15	22	37	51	154	230	553
<b>5K, R3D 2:1 24p</b> 1,15 Gb/s ( 144 Mo/s )		3	4	6	9	15	20	65	98	236
<b>4K, R3D 3:1 24p</b> 780 Mb/s ( 97 Mo/s )		4	6	9	14	24	32	98	147	353
<b>4K, R3D 9:1 24p</b> 260 Mb/s ( 32 Mo/s )		14	18	28	40	64	100	300	446	1072
<b>ARRIRAW 4,6K 3:2 24p</b> 4,46 Gb/s ( 557 Mo/s )		1	1	2	3	5	5	17	25	61
<b>ARRIRAW 4K 16:9 24p</b> 2,89 Gb/s ( 361 Mo/s )		1	2	3	4	7	8	26	39	95
<b>4K DPX 4056x3112 16 bit 24p</b> 10,4 Gb/s ( 1,3 Go/s )		-	1	1	2	2	2	6	11	26
<b>4K UHD 3840x2160 16 bit 25p</b> 6,72 Gb/s ( 840 Mo/s )		-	1	2	3	4	3	9	17	40
<b>HD 8 bit 1080i50 uncompressed</b> 744 Mb/s ( 93 Mo/s )		3	4	8	11	18	33	99	161	386
<b>P2 AVC intra 100</b> 96 Mb/s ( 12 Mo/s )		22	30	46	92	106	260	780	1 250	3 000
<b>P2 AVC intra 50</b> 48 Mb/s ( 6 Mo/s )		24	46	69	102	158	520	1560	2500	6000
<b>XDCAM HD 50</b> 50 Mb/s ( 6Mo/s )		34	46	69	102	158	520	1560	2 500	6 000
<b>MPEG-2</b> 8 Mb/s ( 1 Mo/s )		138	184	276	414	632	3120	9360	15000	36000
<b>Pistes audio wave, 100 pistes</b> 24 bit / 48 Khz		345	460	690	1 035	1 610	19 000	57 000	90 000	216 000

**Note: A video editing workstation typically uses at least 2 video streams.**

*The table above shows actual values measured during field operations using infrastructures specifically designed for collaborative work.  
These figures bear no resemblance to the marketing numbers typically provided by hard drive manufacturers and some of our competitors.*





The universal production servers XSTREAMSTORE have been developed to achieve optimal performance, ensure advanced data protection, and provide simple and intuitive access management while maintaining absolute reliability.

## **XSTREAMSTORE is compatible with all editing and grading solutions**

AVID\*, Resolve\*, Adobe Premiere\*, FinalCut\*, and more.

## **UNIVERSALITY**

XSTREAMSTORE allows multiple users to simultaneously read from and write to the same storage volume across all platforms, including Mac OS, Windows, Linux, and commonly used applications such as Avid\*, Final Cut\*, Edius\*, Resolve\*, ProTools\*, Scratch\*, and more. XSTREAMSTORE is also equipped with Avid virtualization functionality, enabling users to fully leverage the collaborative capabilities offered by the Avid Media Composer\* solution (e.g., Bin Locking, etc.).

## **PERFORMANCES**

The ultra-high bandwidths allow seamless simultaneous work with multiple very high-resolution video streams up to 16K. Naturally, with such bandwidths, thousands of audio tracks can be supported for both reading and writing. On a single gigabit network port, XSTREAMSTORE delivers over 110MB/s, more than 1GB/s via a 10Gb connection, and over 4GB/s using a 40Gb connection. **Equipped with a native port aggregation** feature supporting up to 4 Ethernet connections, XSTREAMSTORE achieves **connection speeds of up to 160Gb/s**.



## **EASE OF INSTALLATION**

XSTREAMSTORE integrates seamlessly into any existing network infrastructure. XSTREAMSTORE volumes can be mounted as network storage on client workstations, accessible simultaneously via SMB, NFS, and/or FTP/SFTP. It integrates effortlessly and quickly into an Active Directory or OpenLDAP domain.





## THE VICTORY GENERATION

What is the new XSTREAMSTORE Victory range? It is the culmination of several years of research and development into high-performance production servers. The cutting-edge technology of the Victory generation drastically increases the overall bandwidth of XSTREAMSTORE units, enhances network connections, and improves stability during collaborative work. Victory further boosts the reliability of your work environment. With the new Victory technology, the performance of the latest XSTREAMSTORE generation enables bandwidth exceeding 30 gigabytes per second (XSTREAMSTORE MAXIMUS) while consuming less energy. This increase in power, combined with enhanced server stability, allows you to reduce production costs while achieving even greater efficiency.



## SECURITY

XSTREAMSTORE Victory is a fully secure system. It comes standard with redundant power supplies, mirrored SSD system drives, and power-loss protection. The operating system at the core of XSTREAMSTORE's performance is based on a specific Unix distribution.

Data storage relies on the ZFS file system, providing the highest level of current security. Thanks to its "Copy-On-Write" architecture, data and file system corruption due to abrupt interruptions is impossible. This eliminates the need for any file system analysis or reconstruction operations following a power failure. Additionally, the RAID-Z architecture specific to ZFS protects against the "write hole" phenomenon, a data parity inconsistency issue inherent in traditional RAID configurations (1, 4, 5, and 6). This issue in conventional RAID systems can lead to data corruption or even an inability to rebuild the array after a disk replacement.

**XSTREAMSTORE natively supports snapshot, clone, and replication functionalities:**

- **SNAPSHOTS:**

**Incremental snapshots can be created automatically or manually, capturing the state of a volume at a specific point in time while consuming minimal storage space. For instance, if 10MB of a 3GB file are modified between two snapshots, the latest snapshot will only store the 10MB of new data. Different file versions can then be accessed using the "previous version" function on the client machine where the volume is mounted. Additionally, the retention period for automatic snapshots can be configured.**

- **CLONE:**

**This feature allows snapshots to be shared and made editable. Clones are accessible for both reading and writing by stations connected to the XSTREAMSTORE.**

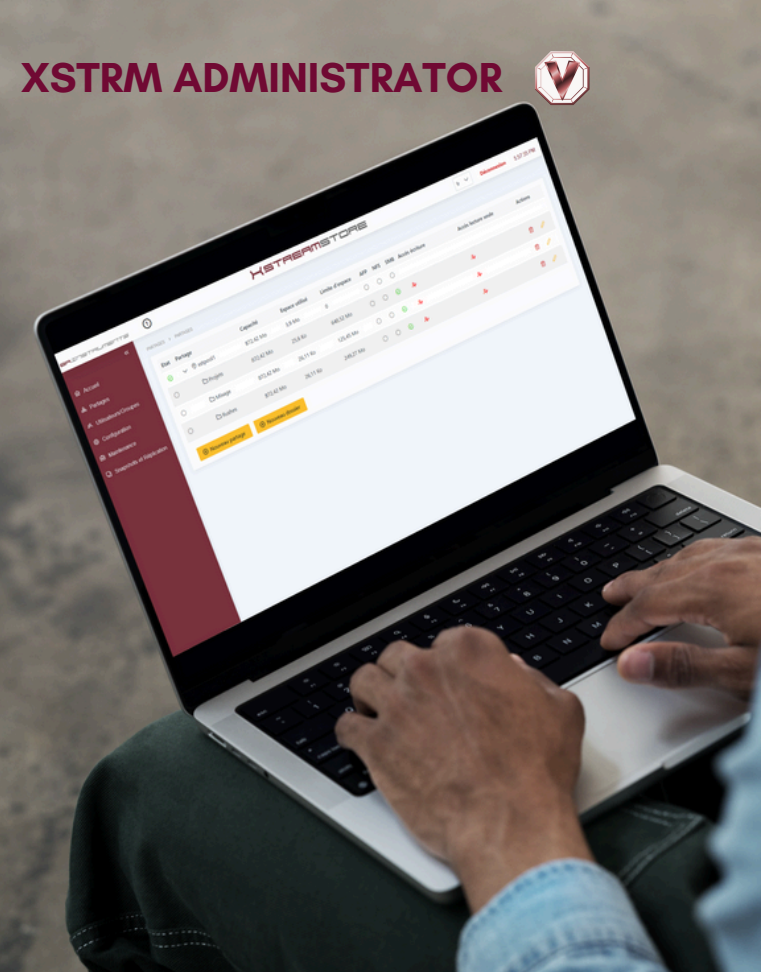
- **REPLICATION:**

**A powerful security feature, replication enables incremental duplication of the primary XSTREAMSTORE to another XSTREAMSTORE. Settings allow for flexible retention periods, with options ranging from scheduled intervals to near real-time synchronization.**



The Snapshots, Clones, and Replication functionalities operate at the block level, significantly optimizing the amount of data transferred. For the most critical production environments requiring seamless continuity, XSTREAMSTORE is also available in a high-availability version (active/passive failover).

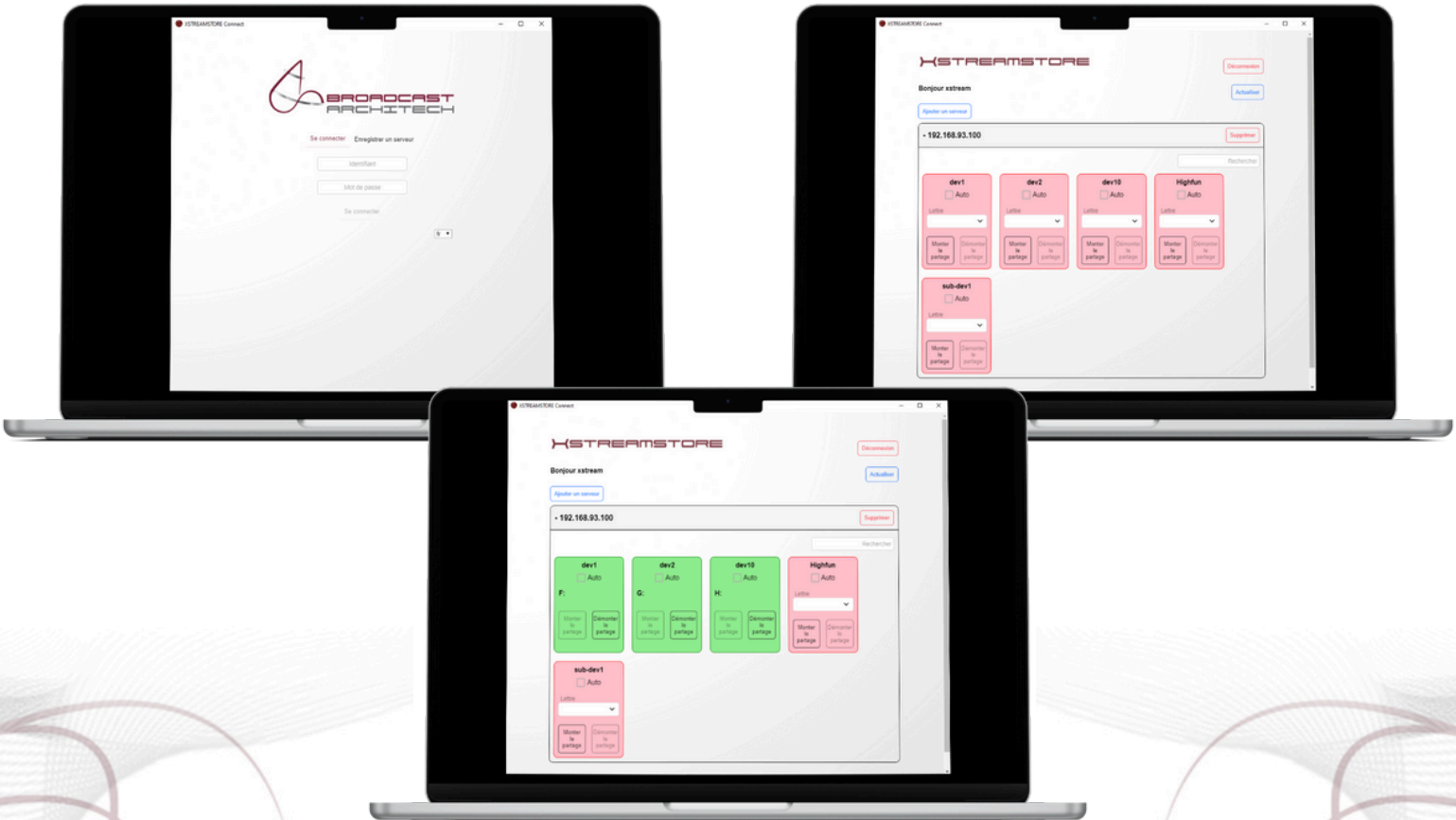
# XSTRM ADMINISTRATOR



# EASE OF ADMINISTRATION

The administration interface, called XSTRM Administrator, is accessible from any Mac, Windows, or Linux workstation using a simple web browser. You can also manage your server from any smartphone or tablet, offering convenient and mobile-friendly control. Ergonomic and intuitive, the interface provides a wide range of tools for analysis, monitoring, maintenance, volume operations, access rights configuration, backups, and more. Access to the interface is, of course, secured through authentication. Real-time management of volume sharing and dynamic resizing is simple and efficient. Quotas allow for precise storage space management tailored to specific productions and projects. Access to shared resources is regulated visually and intuitively for individual users or groups.

# XSTRM KONNECTOR



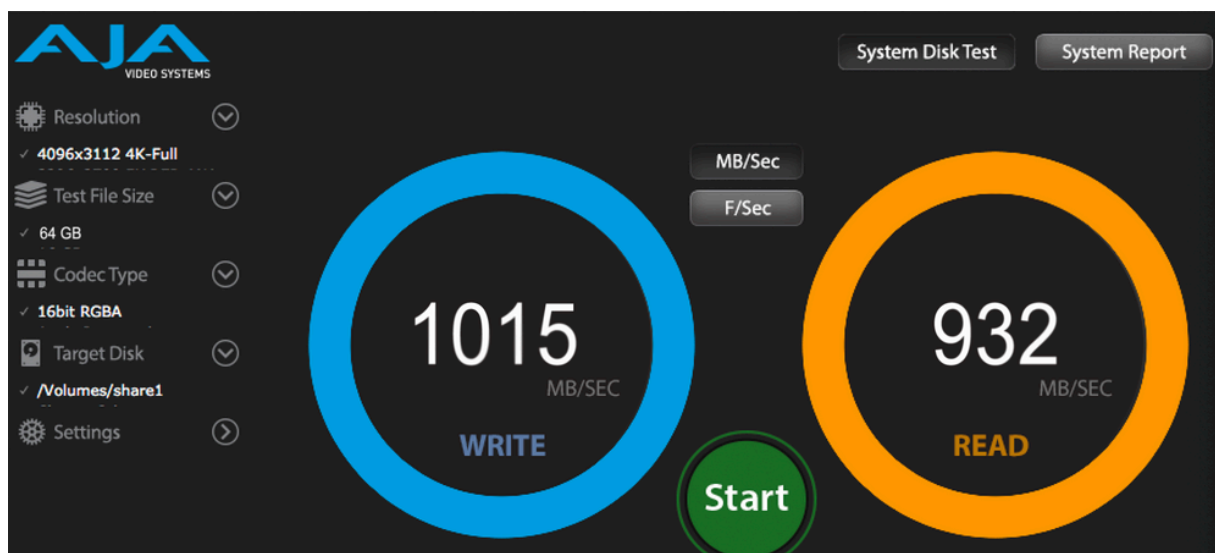


## XSTREAMSTORE Victory Bandwidth for 10 Gb/s Connection

### Transfer of a full 4K file of 4GB



### Transfer of a full 4K file of 64GB



## THE ATYPIQUES - ULTRA MOBILE & ULTRA SILENT

### XSTREAMSTORE BACKPACK V2

Its high-security design and extremely compact build are crafted for ultra-mobility. Whether by scooter, bike, or scooter, nothing can stop it! Ultra-silent, it is perfect for filming locations or outdoor shoots for offloading, rough cuts, file generation for auto-conformity, and more.



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Dimensions (L x W x H)	<b>210 x 210 x 320 mm</b>
Capacity	<b>24 To Full SD</b>
Bandwidth	<b>2 Go/s read &amp; write speed</b>
Connectivity	<b>10 Gb/s RJ45 or SFP+</b>
Net Weight	<b>&lt; 7 KG</b>

### XSTREAMSTORE Assistant

Ideal for small productions or tight spaces, it is the perfect partner in an Assistant/Editor setup for TV/film productions, web TV, eSports, and more. Extremely quiet, it can be used in the workspace right next to you. Its compact design makes it highly portable.

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Dimension (L x W x H)	<b>210 x 350 x 285 mm</b>
Capacity	<b>24 To</b>
Bandwidth	<b>600 Mo/s read &amp; write speed</b>
Connectivity	<b>1 Gb/s RJ45 or SFP</b>



### XSTREAMSTORE Assistant Pro



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Dimension (L x W x H)	<b>210 x 350 x 285 mm</b>
Capacity	<b>48 To</b>
Bandwidth	<b>800 Mo/s read &amp; write speed</b>
Connectivity	<b>1 Gb/s RJ45 or SFP</b>



## THE RACKS -COMPACT & ULTRA SILENT

### XSTREAMSTORE Pro

Rackmount server designed for all types of TV/film production, post-production, web TV, eSports, etc.

It can be integrated into a rack, making it a perfect fit for a mobile control room, studio, or nodal setup. It is ideal for editing and color grading suites in standard production/post-production environments.



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Dimension (L x W x H)	<b>430 x 560 x 88 mm</b>
Capacity	<b>48 To</b>
Bandwidth	<b>1 Go/s read &amp; write speed</b>
Connectivity	<b>10 Gb/s or 40 Gb/s RJ45, SFP+, QSFP+</b>
Net Weight	<b>32,5Kg</b>

### XSTREAMSTORE Classic

Ideal configuration for studio production, post-production, control rooms, or nodal setups. A rackmount server designed to handle high-quality codecs and large file formats. Perfect for intensive simultaneous editing and color grading.



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Dimension (L x W x H)	<b>430 x 680 x 133 mm</b>
Capacity	<b>96 To</b>
Bandwidth	<b>1,3 Go/s read &amp; write speed</b>
Connectivity	<b>10 Gb/s or 40 Gb/s RJ45, SFP+, QSFP+</b>
Net Weight	<b>43.6Kg</b>

### XSTREAMSTORE Storm

For large editing facilities and high-demand color grading requiring heavy codecs and formats (4K UHD, EXR 4K, 8K, etc.), this configuration is ideal for managing the most resource-intensive workflows.



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Dimension (L x W x H)	<b>430 x 680 x 174.3 mm</b>
Capacity	<b>144 To</b>
Bandwidth	<b>2 Go/s read &amp; write speed</b>
Connectivity	<b>10 Gb/s or 40 Gb/s RJ45, SFP+, QSFP+</b>
Net Weight	<b>51.4Kg</b>

## XSTREAMSTORE Thunder

Need a boost? Ideal for large-scale operations looking to expand grading and editing stations while working with extremely heavy formats, as well as organizations requiring large storage capacities.



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Dimension (L x W x H)	<b>645 x 835 x 310 mm</b>
Capacity	<b>216 To</b>
Bandwidth	<b>3 Go/s read &amp; write speed</b>
Connectivity	<b>10 Gb/s or 40 Gb/s RJ45, SFP+, QSFP+</b>
Net Weight	<b>62Kg</b>

## XSTREAMSTORE Hurricane

For high-performance storage capacity needs, primarily aimed at organizations that need to work with large volumes of footage and demanding codecs, all while supporting collaborative workflows.



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Dimension (L x W x H)	<b>603 x 1240 x 454 mm</b>
Capacity	<b>480 To</b>
Bandwidth	<b>4 Go/s read &amp; write speed</b>
Connectivity	<b>10 Gb/s or 40 Gb/s RJ45, SFP+, QSFP+</b>
Net Weight	<b>79Kg</b>



### Dual Head "FireSafe" Option

All rackmount XSTREAMSTORE models offer the option to integrate the "FireSafe" feature. This provides high availability through an active-passive failover system, ensuring continuous operation and protection against failures.

## XSTREAMSTORE Victory Custom Made

In addition to the XSTREAMSTORE models available in the catalog, BA Instrument designs custom storage units to meet any specific need. Upon request, we can offer you a latest-generation Victory XSTREAMSTORE, uniquely tailored and perfectly suited to your requirements.

## THE XST FLASHES - ULTRA FAST & I/Ops MAX

### XSTREAMSTORE Neutrino

Optimized for more than 7 million IOPS. Perfect for coloring, rendering, compositing, SFX, animation, and other high-demand tasks.



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Dimension (L x W x H)	<b>430 x 645 x 88 mm</b>
Capacity	<b>48 To</b>
Bandwidth	<b>10 Go/s read &amp; write speed</b>
Net Weight	<b>25.5Kg</b>

### XSTREAMSTORE Maximus

For ultra-high-resolution productions, multiple RAW, DPX, and EXR streams. Nearly unlimited IOPS.



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Dimension (L x W x H)	<b>430 x 645 x 88 mm</b>
Capacity	<b>48 To</b>
Bandwidth	<b>30 Go/s read &amp; write speed</b>
Net Weight	<b>25.5Kg</b>



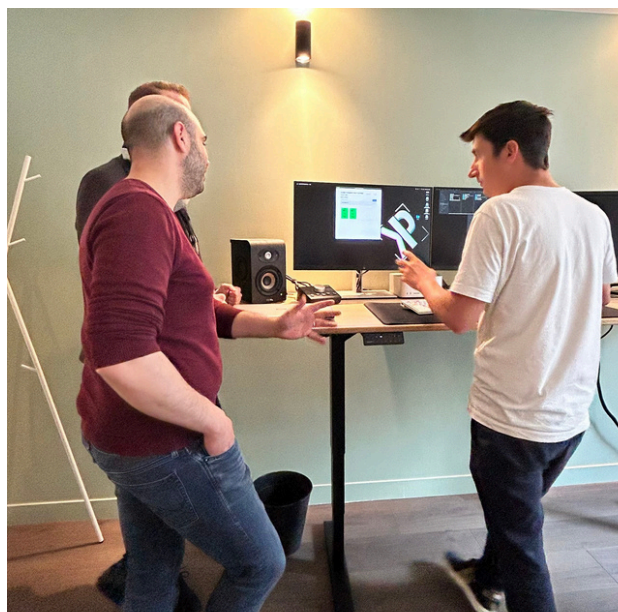
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# THE INSTALL'

**XSTREAMSTORE**  
UNIVERSAL PREMIUM STORAGE FOR MEDIA





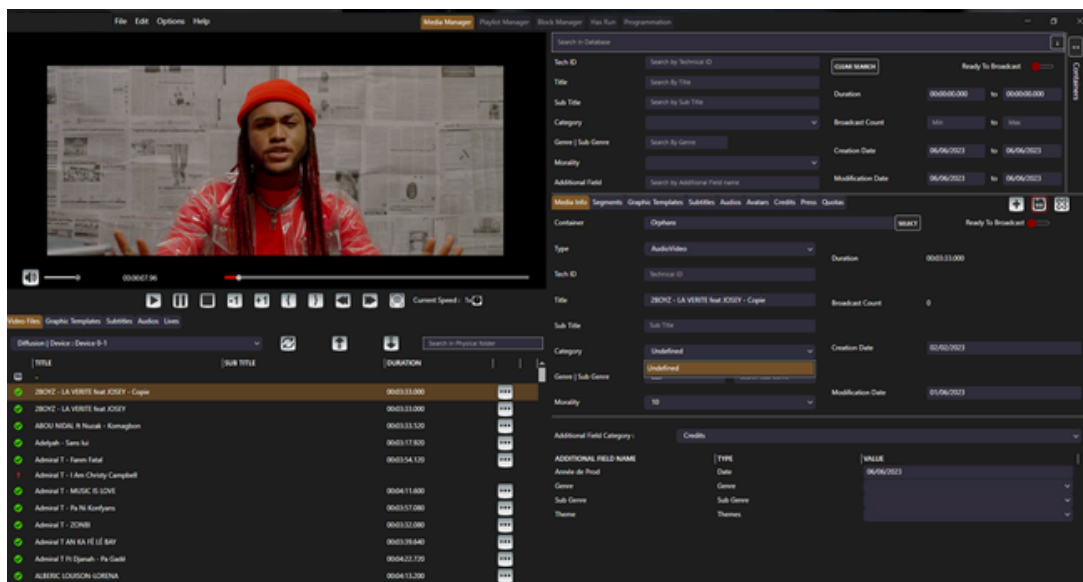
# XSTREAMAM

UNIVERSAL PREMIUM AI POWER MAN

Beyond the recognized power of the XSTREAMSTORE, operations managers and technical directors need modern tools to assist them in optimizing their daily tasks. The new demands of audiovisual production require the implementation of new technologies, such as Artificial Intelligence.

To address all of these needs, Broadcast Architech and its partners have developed the XSTREAMSTORE.

- **MEDIA INDEXING OF ALL TYPES, INCLUDING MXF**
- **WORKFLOW MANAGER**
- **AUTOMATIC TRANSCODING**
- **AND MORE...**







XGESTORE V3 has been designed to be the most compact, reliable, and high-performance universal ingest connected ecosystem on the market. In just 3U, XGESTORE records 16 channels natively in all existing codecs and formats, from SD to 8K HDR, regardless of the source: SDI, IP, files, and any type of camera card.

## COMPACT ET SILENT

Thanks to our direct field experience in collaboration with key players in the capture industry, we have identified the non-negotiable constraints of size, noise, and robustness that any ingest machine must take into account in an OB van or even in an ALGECO.

Broadcast Architech has therefore developed a specific enclosure for XGESTORE that perfectly meets all of these requirements. With a depth of less than 65 cm, XGESTORE integrates easily into all racks. Its height of only 3U combined with a weight of less than 30 kg allows it to be handled and transported effortlessly by a single technician. Ensuring the integrity of the server remains a critical parameter, XGESTORE features a finely optimized cooling system to achieve the best airflow possible while maintaining a very low noise emission. Additionally, all internal components of the system are locked, guaranteeing the server's integrity even in the event of a fall during transport.

## UNIVERSALITY ET PERFORMANCE

The operational power and versatility of XGESTORE provide a significant time-saving advantage. It records directly into the pre-configured codecs, in real-time, and to any destination of your choice: front-facing SSD, XSTREAMSTORE server, NAS server, or remotely via a 10Gb to 100Gb connection, USB drive, etc.

XGESTORE also records lower-resolution versions for editing, in parallel with the main recording, onto a chosen device. This way, once the capture is complete, the media is immediately ready for use—no transcoding or file copying required.

**Guaranteed time savings!**



## SECURITY

Data security is a top priority in the broadcast industry. That's why XGESTORE, in addition to recording in real-time to multiple selected devices, also records to its internal memory.

To achieve this, XGESTORE features a RAID SSD with a capacity of up to 256 TB, allowing for over 2600 hours of recording in DNx185. This internal memory ensures multiple captures are stored for security purposes, and data can only be deleted with administrator validation.

**No more risk of data loss!**

## STACKABLE AND UNIFIED CONTROL

XGESTORE can be stacked infinitely for an unlimited number of channels. In this configuration, the management of all XGESTORE units is controlled very easily from a single, unified interface.

This interface can be accessed both locally and remotely, even from the other side of the world. XGESTORE allows for data centralization during recording, data organization, creation of sub-clips, dailies, timeline creation and distribution, playlist preparation, access management, and more.

It is perfectly suited for integration within a nodal setup or data center. When connected via dark fiber to capture sites around the world, it becomes possible to centralize operators and editors in one location.

## LIVE/DELAYED BROADCAST

In addition to its recording features, XGESTORE also offers a set of tools for live or delayed broadcast.

XGESTORE can optionally support multiple high-performance HD playout channels, enabling the broadcasting of content in real-time as it is being recorded.

The instant creation and broadcasting of highlights, as well as the management of multiple dynamic graphic layers, are among the many features provided by XGESTORE.

## XGESTORE 3. Custom Made

In addition to the XGESTORE models featured in the catalog, BA Instrument designs custom units to meet any specific needs. Upon request, we can offer you a unique XGESTORE perfectly tailored to your requirements.

# **XGESTORE** **OBcast**<sup>v3.</sup>

- 19" Rack, 3U, 40 cm depth specifically designed for VPTL
- 1 Input channel, 1 Output channel
- Play While Ingest for live or delayed broadcast
- Multiple dynamic graphic layers
- Playlist management
- Remote playout management and scheduling
- Automated playlists for 24/7 broadcasting
- From HD up to 8K
- Available in 3G or 12G SDI or IP NDI/SRT models



**HD**  
**4K** **ULTRA**  
**HD**

# XGESTORE KINO<sup>v3.</sup>

- 19" Rack, 3U, 65 cm depth
- Ingest: SDI/IP ST 2022-6, 2022-7, ST 2110/Stream RTP, UDP/NDI/SRT
- Codecs: SD/HD/UHD/4K/8K — ProRes 422 HQ, DNxHD, DNxHR, XDCAM HD, MPEG2, XAVC, HEVC, AVC-Intra, AVC-Ultra, H264, H265, etc.
- UHD HDR: (HLG, S-LOG3, HDR10, HDR10+, etc.)
- Wrappers: (MXF OP1A, MXF OPAtom, MOV, MPG, MP4, etc.)
- Custom Template Creation for fine channel management
- Stacking XGESTORE units for unlimited channel count
- Control of XGESTORE units via a single interface
- Integrated Scheduler manageable locally and remotely
- Control Interface manageable locally and remotely
- Channel Group Creation (gang record and gang play)
- Unlimited multideestination recording per channel
- Dynamic multilayer graphics
- From HD up to 8K
- Available in 3G or 12G SDI or IP NDI/SRT models



**HD**  
**4K ULTRA HD**



**v3.**





# **XSPEEDLUX**

UNIVERSAL PREMIUM STATION FOR  
COLORGRADING AND RENDERING

XSpeedLux is the ultra-powerful workstation developed by BA Instruments, the Design & Manufacturing division of Broadcast Architech. XSpeedLux is designed for demanding color grading and computational tasks. It features the latest technologies, including AMD Ryzen Threadripper processors and Nvidia RTX graphics cards.

## **ZERO LATENCY**

The hardware optimization carried out by the BA Instruments team around the two central subsystems allows for a smooth and comfortable working environment, without any stuttering or latency, even at 8K resolution.

XSpeedLux was developed after months of collaboration with experts and skilled operators to meet the current specific needs of their professions. Aware of the rapid evolution of needs and workflows, XSpeedLux is designed to adapt easily. Its modular design will allow it to effectively handle even the most complex scenarios that may be required.

## **SEVERAL WEEKS OF GAIN**

Ultra-powerful, XSpeedLux can be used simultaneously for conformation tasks and transcoding sessions, significantly boosting your productivity. Actual average performance measured on-site shows a gain of several weeks of productivity per year. For example, exporting a 52-minute UHD project takes less than an hour, while a 4K multi-layer export takes less than 1.5 hours.

## **A 5-STAR SUPPORT**

As with all the solutions designed by BA Instruments, the XSpeedLux workstations are covered by the SASI by BA contract (Service, Assistance, Support, Intervention). The SASI by BA is recognized as professionally valuable by all of BA's partners for the quality of the services provided. The high level of support, flawless responsiveness for issue resolution, quick intervention times, quality of communication, and direct access to level 3 support are all premium benefits that ensure a smooth acquisition, highly appreciated by all users.



# X SPEEDLUX

UNIVERSAL PREMIUM STATION FOR  
COLORGRADING AND RENDERING

## X SPEEDLUX COLORING

**Processor up to 128 cores**

For a 52 minutes -

**RAM DDR4 up to 512 GB**

**Graphics Card Nvidia RTX**

Output

52 min UHD HDR <1H

Export

Multilayer 4k < 1H30

**NVMe PCIe4 cache as standard**

Transcoding

44UHD to mp4 HD < 5 min

**Network card up to 100 Gb**

**Premium BA Support**



## X SPEEDLUX RENDER FARM

**Multi Processor up to 128 cores**

Designed for video rendering and 3D on images  
up to 8k.

**RAM DDR4 up to 512 GB**

**Multi GPU Nvidia RTX**

Allows for extremely reduced computation time.

**NVMe PCIe4 cache as standard**

**Network card up to 100 Gb as standard**

Can be customized to adapt to any type of  
rendering work.

**Premium BA Support**

# **XSPEEDLUX**

## **EXEMPLES DE CONFIGURATIONS**

### **XSPEEDLUX • 32 core**

**Ideal for 4K color grading.**

- 32-core processor
- 128 GB of RAM
- RTX 3080 Ti 12GB graphics card
- 1 TB NVMe mirrored system
- 2 TB NVMe for local storage



### **XSPEEDLUX • 64 core**

**Sized for 8K color grading, VFX creation, and ultra-fast rendering and transcoding.**

- Processor 64 cores
- 256 GB of RAM
- Graphics card RTX 3090 Ti / RTX 4090 24 GB
- Mirrored NVMe system 1 TB
- 4 TB NVMe for local storage

## **XSPEEDLUX Custom Made**

In addition to the XSPEEDLUX models listed in the catalog, BA Instrument designs custom units to meet any specific needs. Upon request, we can offer you a unique XSPEEDLUX, perfectly tailored to your requirements.



**B · A MEDIA**

**OUR EXCLUSIVE PARTNERS**



**ARCHIWARE**



Storage DNA helps audiovisual professionals master their workflow to increase efficiency while achieving significant cost savings. Its commitment to innovation in advanced technologies is at the heart of Storage DNA. Their innovative workflow solutions allow you to archive, search, retrieve, restore, and access your resources at incredible speeds, all while managing the costs associated with media storage.

## DNA evolution

### REVOLUTIONARY NEARLINE LTO/LTFS ARCHIVING AND STORAGE

DNA Evolution is an archiving technology based on open linear tape (LTO) with a tape file system (LTFS). It is the most reliable and cost-effective solution for long-term storage, especially for the vast amount of media files generated by today's media "pipelines."

This storage medium plays a critical role in data management, where the volume grows exponentially. DNA Evolution sits at the crossroads of nearline storage and archiving, using LTO/LTFS tapes to provide a significantly economical infrastructure, with speeds ten times faster than network solutions. It is a unique software solution specifically designed for LTFS. DNA Evolution maximizes the capacity of these "Direct Access" tapes for a workflow never before offered.

Developed for media environments, it offers unmatched velocity for data movements, search, restoration, and access to your media content.

DNA Evolution allows you to modernize your media pipeline, building a scalable, flexible, searchable, and secure archive at a lower cost.



## MEDIA PROTECTION & FAST RETRIEVAL OF YOUR ARCHIVES

DNA Evolution allows for extremely fast and highly reliable archiving of all your data onto LTO/LTFS tapes. In addition to a checksum verification of all content written to LTO tape, DNA Evolution enables precise media retrieval through the integration of the Archive Asset Manager. You will save time with Smart Search, which includes advanced parameters such as tagging, annotations, and the ability to locate any archived and/or indexed media.

## LTO AS A PRODUCTION TOOL

2K, 4K, and sometimes 8K are becoming commonplace. These wide formats increase the strain on infrastructures. This leads to constantly chasing storage space for high-resolution projects.

DNA Evolution protects you from the pressures associated with storage management, thanks to a unique LTO tape conformation workflow that is fully automated. It allows you to edit in low resolution while having your high-resolution footage stored on tape.

## CONTROL THE INCREASE IN POST PRODUCTION STORAGE



Many post-production facilities quickly exceed their network storage capacity due to the constant influx of new projects, the extension of existing projects, and insufficient storage management tools.

DNA Evolution is the only solution that offers automated backups, disaster recovery, and archiving for Avid® and Adobe®. A high-performance, user-friendly data transport engine enables fast and efficient content movement to and from LTO/LTFS tapes, facilitating easier management of storage capacity.





## DNAfabric

DNAfabric is a scalable and extensive data management platform. It connects to multiple storage endpoints (file systems, object storage) on-premises, remotely, and in the cloud.

It enables organizations to manage their increasingly distributed data more securely and efficiently with a comprehensive set of tools through a single unified interface.

### THE ARCHITECTURE OF DNAFABRIC

DNAfabric is powered by a vast cluster architecture. A scalable centralized controller provides management, metadata, and analytics services, while extended data managers offer data visibility and mobility services.

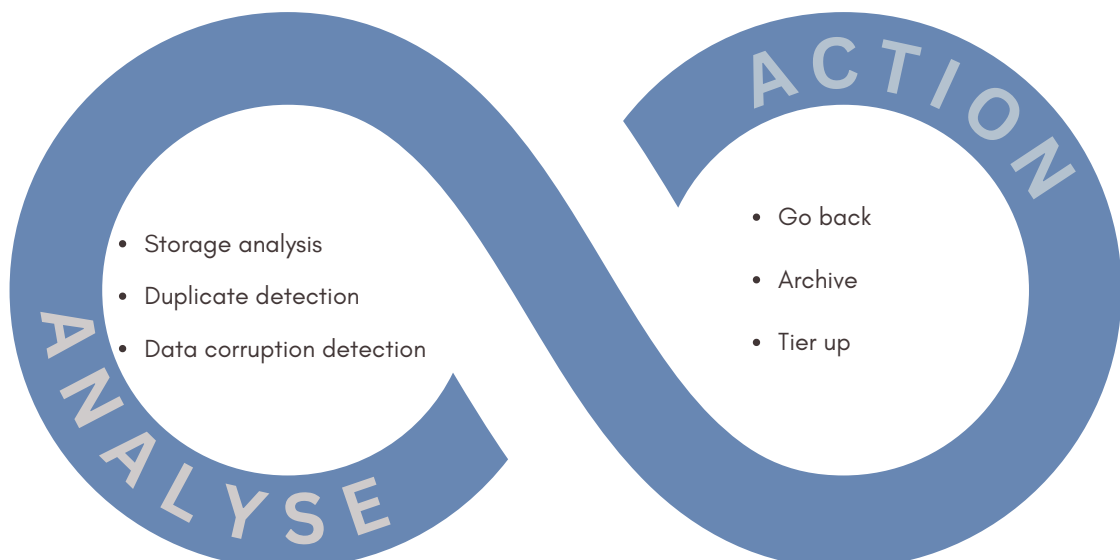
DNAfabric components can be deployed on virtual instances, on-premises, or in the cloud.

### THE FEATURES OF DNAFABRIC

Data mover:

- Transfer (manual or automated), backup, and synchronization
- Retains access rights and permission rules
- Analysis, scanning, and indexing of all your storage
- Multi-destination, multi-site synchronization
- Snapshot management with retention rules for all indexed storage
- Storage cost optimization tools

*Adapt your actions for greater efficiency, whether it's optimization, backup, archiving, or synchronization.*



# ARCHIWARE

The gargantuan increase in data volume, increasingly stringent security and legal standards, and an ever-pressing need to control costs can quickly turn data management and administration into a real headache.

Archiware's P5 software suite is ideal for companies in the media and entertainment sector, regardless of their size. The four modules of the Archiware P5 suite allow you to manage and secure your data with simplicity, based on three pillars: archiving, backup, and cloning.

The four modules that make up Archiware P5 can be combined to create multi-step security procedures to ensure maximum data protection. Archiware P5 secures data on disks, tapes, and the cloud, and integrates perfectly with XSTREAMSTORE servers from BA Instruments.

## MODULES OF THE ARCHIWARE P5 SUITE



### **P5 Archive**

Offline data migration to disks



### **P5 Backup**

Server data backup to disks, tapes, or cloud



### **P5 Synchronize**

Data replication/cloning to ensure high availability



### **P5 Backup2Go**

Backup of data from portable or desktop stations to disks, tapes, or cloud



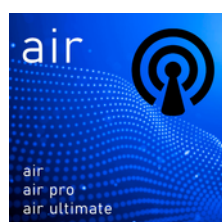
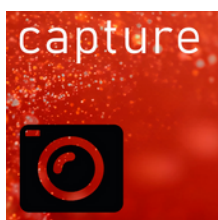
Cinegy Workflow is a modular and open platform consisting of a suite of tools, applications, and open APIs that cover every stage of television production.

Cinegy Workflow is an integrated, end-to-end digital media production and management system for SD/HD/4K. It was developed to address the new challenges of 21st-century television and media production. Based on standard infrastructure and hardware, Cinegy Workflow is a modular and open platform composed of a suite of tools, applications, and open APIs. This allows television production to transition to the new generation of equipment without becoming tied to specific proprietary hardware. Cinegy Workflow also integrates seamlessly into traditional production and post-production chains, including non-linear editing systems. It can be implemented without the need for investment in new infrastructure.

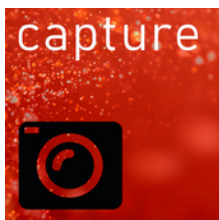
## FLEXIBLE ET SCALABLE

Cinegy Workflow includes all aspects of media production, including real-time media ingest in multiple quality levels, scene detection, speech recognition, advanced recording, production notes, voice annotation, rights management, digital asset management, search and retrieval, sequencing, storyboarding, non-linear editing, group collaboration, remote viewing, verification and approval, playback, and conformance. Cinegy Workflow also manages multimedia outputs for the web, DVD, or Blu-Ray.

## THE CINEGY SMART PRODUCTION SUITE UNIVERSE







## **CINEGY CAPTURE PRO**

Allows operators to work with a comprehensive client interface accessible from anywhere on the network, controlling a dedicated ingest service. It simultaneously generates both high-quality codecs and proxies (including DNx). The gang record feature enables synchronized recording of an unlimited number of channels with frame accuracy.



## **CINEGY CONVERT**

Centralizes rendering and automates encoding, even for the most complex professional file formats. Convert frees up resources and time for operators, allowing them to focus on ingest and/or broadcasting.



## **CINEGY ARCHIVE**

The most secure core for managing and sharing your active media and metadata via centralized access for professional content management. Cinegy Archive is the central piece of your management system.



## **CINEGY DESKTOP**

The most versatile interface for the assets stored in Cinegy Archive, offering seamless collaboration for hundreds of simultaneous users. Desktop enables editing during ingest and allows broadcasting of subclips created without consolidation.



## **CINEGY AIR PRO**

The ultimate solution for live and/or delayed broadcasting. Cinegy Air features tools for playlist creation/management (secondary events support, multi-channel management interface, precise live event handling, seamless integration with traffic systems, etc.), manages multiple dynamic graphic layers, and supports multi-destination broadcasting via a single channel.



## **CINEGY TITLE**

Allows the creation or import of template-based titles, logos, animated graphics, and automated templates. It handles "coming next," news flashes, thumbnail overlays, and more.



## **CINEGY MULTIVIEWER**

Displays signals while analyzing and raising alerts, acting as a barometer for capturing. Running as a service on standard computers, video streams can be received via IP (e.g., Ethernet) or using a standard SDI card.

# B·A *INSTRUMENTS*

## B·A *MEDIA*



**XSTREAMAM**  
UNIVERSAL PREMIUM AI POWER MAM

**XGESTORE**  
UNIVERSAL PREMIUM INGEST MACHINE

**XSPEEDLUX**  
UNIVERSAL PREMIUM STATION FOR  
COLORGRADING AND RENDERING

**XSTREAMSTORE**  
UNIVERSAL PREMIUM STORAGE FOR MEDIA



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