



Data Management Solutions

Acquifer HIVE

Centralized Data Storage and Computing

Acquifer HIVE

Specialized Big Data Management

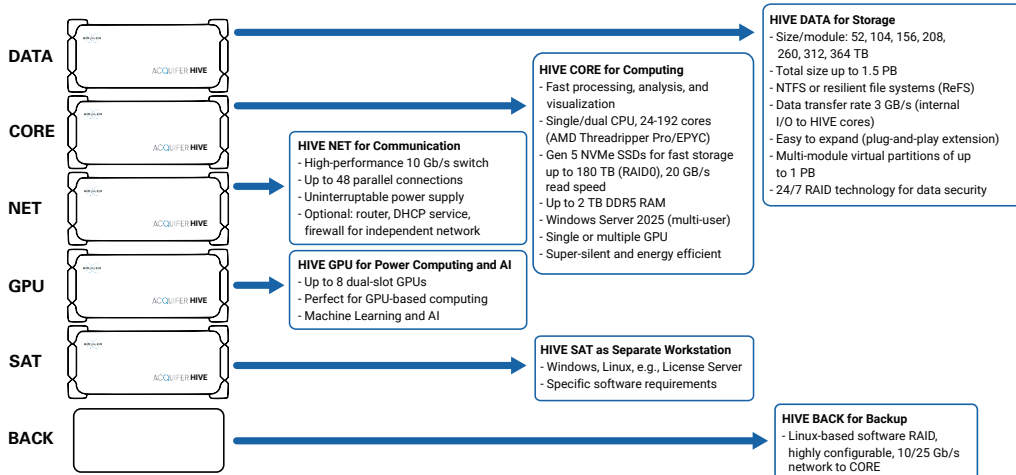
Bruker's Acquifer HIVE is a big data management system for handling large amounts of scientific data, such as microscope image series, screening results, or omics data. This centralized data storage and computing solution provides high-speed data transfer, safe storage capacity, and parallel data processing for multiple users, compatible with commercial and open-source data processing software.

The Acquifer HIVE enables greater efficiency in collecting, storing, and processing data, making it ideal for biology-focused scientists and research facilities dealing with large datasets from various instruments, such as microscopes, screening platforms, and many other systems. Its CPU and GPU capabilities ensure high performance with all major imaging software, and its high-speed redundant storage (RAID) architecture, firewall, and uninterruptible power supply (UPS) guarantee secure storage. There are several standard configurations for the Acquifer HIVE, but each is actually made to order based on your requirements and can be later expanded with more storage or GPU compute capacity as requirements grow. Scalable, user-friendly, and silent—the Acquifer HIVE is the preferred computing solution for both laboratory and office environments of research groups, core facilities, and entire institutes.

Key benefits of the Acquifer HIVE include:

- Customizable configurations with plug-and-play extensions
- Multi-user environments and remote access
- Simple user and project administration without the need for expert IT knowledge
- Compatibility with advanced microscopy and numerous other scientific computing applications

HIVE Modules



The Acquifer HIVE is based on a modular design with each component tailored to the computational needs of the project, adding performance in data storage, data processing, network capability, or AI power computing.

Superior Flexibility for Your Data Needs

Centralized Data Storage and Processing

The Acquirer HIVE is ideal for big image data management, as processing and storage are achieved in one unit. This minimizes the need for duplicating, copying, or transferring data. Data is also kept safe with RAID, Firewall, and UPS.

Multi-User System

The Acquirer HIVE facilitates connectivity and efficient teamwork across multiple locations through easy remote access via VPN and Remote Desktop. This ensures accessibility and productivity in a collaborative environment. The system is equipped with a dedicated high-bandwidth network, has the ability to manage data input from multiple microscopes, and supports the centralized use of software licenses.

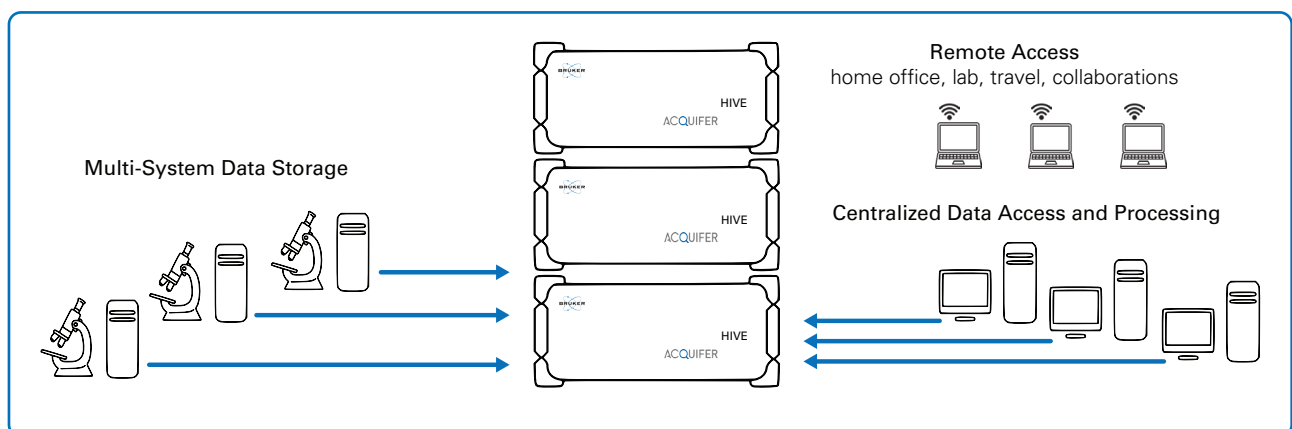
Intuitive Setup and Maintenance

The Acquirer HIVE delivers exceptional ease of use to researchers, requiring no special expertise in software or hardware for its setup, use, and maintenance. Packaged as stackable units, the system is environmentally friendly with low energy consumption and silent cooling.

Perfected for Image and Non-Visual Data Analysis

The Acquirer HIVE runs Windows Server 2025 operating system, and is specifically designed for multi-user, high-throughput, and computationally demanding analysis. It is compatible with a wide range of software packages, including:

- Luxendo LuxBundle
- Fiji/ImageJ
- Leica LAS X
- Python
- SVI Huygens
- Zeiss Zen
- Bitplane Imaris
- arivis Vision 4D
- SRX software



Acquirer HIVE Specifications

Data Processing	▪ Single or dual CPU and up to 192 core ▪ Up to 5.4 GHz boost clock ▪ Up to 2 TB DDR5 RAM ▪ NVIDIA RTX Pro Blackwell series GPU(s) with up to 96 GB memory
Scalable High-Speed Storage	▪ Direct data streaming from microscope with up to 2 GB/s ▪ Internal data transfer rates between modules of up to 3 GB/s ▪ Up to 184 TB primary storage based on gen 5 NVMe SSDs ▪ Redundant secondary RAID 6 storage of up to 1.5 PB ▪ Operating system mirrored on two SSD for added resiliency
GPU processing	▪ Up to three high-end GPUs ▪ Extendable with up to eight dual-slot GPUs ▪ Ideal for GPU-accelerated data processing, AI, and visualization
Ease-of-Use	▪ Intuitive user and data administration ▪ Supported integration into local infrastructure ▪ Personalized access to a project, directory, and individual levels ▪ Secure remote access via VPN and Remote Desktop
System Compatibility	▪ Products and software from 3i, Andor, Arivis, Bitplane, Bruker, FEI, Fiji, Glencoe Software, Leica, Luxendo, Matlab, Nikon, SVI Huygens, and more ▪ All microscope providers (Bruker, Zeiss, Leica, Olympus, Miltenyi, Nikon, etc.) ▪ Virtual Machines and Linux solutions available

	HIVE Pro M	HIVE Pro L	HIVE Pro XL	HIVE Pro XXL	HIVE Epic L	HIVE Epic XL	HIVE Epic XXL
CPU cores	24 cores	32 cores	64 cores	96 cores	96 cores (dual 48)	128 cores (dual 64)	192 cores (dual 96)
CPU clock	up to 5.4 GHz	up to 5.4 GHz	up to 5.4 GHz	up to 5.4 GHz	up to 4.8 GHz	up to 5.0 GHz	up to 4.5 GHz
RAM	256 GB DDR5	256 GB DDR5	512 GB DDR5	1024 GB DDR5	512 GB DDR5	1024 GB DDR5	2048 GB DDR5
GPU	RTX PRO 4000 Blackwell	RTX PRO 4500 Blackwell	RTX PRO 5000 Blackwell	RTX PRO 6000 Blackwell	RTX PRO 6000 Blackwell	2 x RTX PRO 6000 Blackwell	2 x RTX PRO 6000 Blackwell
OS SSD	2 × 1.92 TB	2 × 1.92 T B	2 × 1.92 TB	2 × 1.92 TB	2 × 1.92 TB	2 × 1.92 TB	2 × 1.92 TB
Data SSD	15.36 TB (2 × 7.68)	15.36 TB (2 × 7.68)	15.36 TB (2 × 7.68)	30.72 TB (2 × 15.36)	up to 46 TB (6 × 7.68)	up to 92 TB (6 × 15.36)	up to 184 TB (6 × 30.72)

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