ACQUIFER

# HIVE

## High Performance Solutions for Large Image Data Handling


- Fast 320 Gbit/s Backbone for unsurpassed data collection speed
- Secure Storage from 10 TBytes to an almost unlimited volume
- Quietly Efficient with energy-saving technology and silent running
- Plug'n Play for ease of implementation and expansion

HIVE modules solve data challenges in environments where high volumes of data are generated. They are optimised for use in Core and HCS facilities in the biosciences where multipoint, multichannel, 3-dimensional images and extremely large files are increasingly common.

A fast backbone allows data collection, data writing and subsequent processing to be done efficiently at high speed and with ease. The High Speed RAID storage architecture protects your valuable data alongside the firewall and Uninterruptible Power Supply (UPS). Storage is easily scalable with modules that Plug'n Play and auto-configure.

Setup and maintenance is designed for users with no special expertise of software or networking, but still retaining secure project management whilst simplifying user administration. Packaged in stackable units, the modules are environmentally friendly, with low-power-consumption technology and silent running. Designed to be in the lab or equally in the office.

Data processing is possible using any Windows based applications. Complex visualization is enhanced by a balanced choice of components matched to the most common software used in the lab. Hardware and software from all major suppliers are pre-tested for efficient running and compatibility with the system. Data processing can be done with your software of choice and with confidence that it will work efficiently.

In addition to secure local access, HIVE offers the possibility of remote data sharing via browser and remote desktop.

# HIVE
## Technical Specifications


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| **Data Processing** | • Starting from 2.6 GHz Octa core Processor up to 2x2.2 GHz 22 core (up to 3.6 GHz with Intel® Turbo Boost)<br>• 128 GB to 1 TB ECC DDR4 memory<br>• Newest NVIDIA® professional PASCAL architecture graphics card with high performance CUDA GPU with up to 24 GB memory |
| **RAID Controlled Storage** | • High-speed storage<br>• Typical data collection rates of 800 MB/s or more<br>• Internal data transfer rates up to 3 GB/s |
| **Scalability** | • 12 TB to PB range storage possible |
| **High Speed Storage** | • RAID 5 controlled primary storage of 10 TB<br>• Plug'n Play RAID 6 storage of 52, 78 or 104 TB HIVE data modules |
| **Secure Project Management** | • Latest generation SSH 2048-bit encryption<br>• Dual Core Hardware Firewall<br>• Built-in DHCP Server<br>• Personalized access on a project, directory and individual file level<br>• Setup and maintenance made easy with Windows Server 2012 R2 |
| **Data Networking** | • Multiple 10 Gbit network adapters based on optical or copper connectivity<br>• Compatible with Windows, MacOS and Linux networking |
| **Global Remote Access** | • my.acquifer.net<br>• ACQUIFER Remote Desktop (LoQin) technology for performance and accessibility |

**HIVE is tested and ACQUIFER approved for use with products and software from:**
**3i, Andor, Arivis, Bitplane, FEI, Fiji, Glencoe Software, Leica, Luxendo, Matlab, Nikon, SVI and others**

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