Lux DATA

Lux DATA –
THE DATA PROCESSING & STORAGE SOLUTION

Lux DATA is a comprehensive data processing and storage solution. It is designed to handle effectively the vast amount of data generated in light-sheet fluorescence microscopy, but also super-resolution or two-photon imaging. It enables fast data transfer even during acquisition and large-capacity storage as well as remote access and high-performance processing of multi-dimensional image data, leveraging multi-core- and multi-GPU-based computation.

The **Lux** DATA approach perfectly complements image acquisition with LUXENDO SPIM micro-scopes enabling all subsequent processing steps and saving time and money.

Lux DATA features high-performance data processing and storage components, including:

› **RAID storage unit connected via fast LAN to the LUXENDO SPIM computer for rapid transfer of image data**
› **High-performance image data processing and computation unit**
› **Network components allowing high-throughput data transfer between the units and convenient remote access**
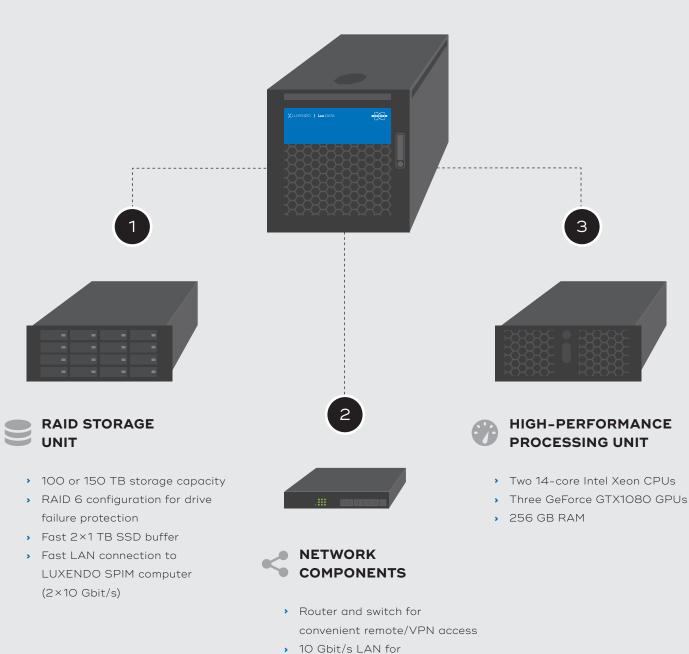› **Easy integration into existing network infrastructure**

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SPECIFICATIONS

RAID STORAGE UNIT

› 100 or 150 TB storage capacity
› RAID 6 configuration for drive failure protection
› Fast 2×1 TB SSD buffer
› Fast LAN connection to LUXENDO SPIM computer (2×10 Gbit/s)

NETWORK COMPONENTS

› Router and switch for convenient remote/VPN access
› 10 Gbit/s LAN for high-throughput data transfer

HIGH-PERFORMANCE PROCESSING UNIT

› Two 14-core Intel Xeon CPUs
› Three GeForce GTX1080 GPUs
› 256 GB RAM