Baselight TWO
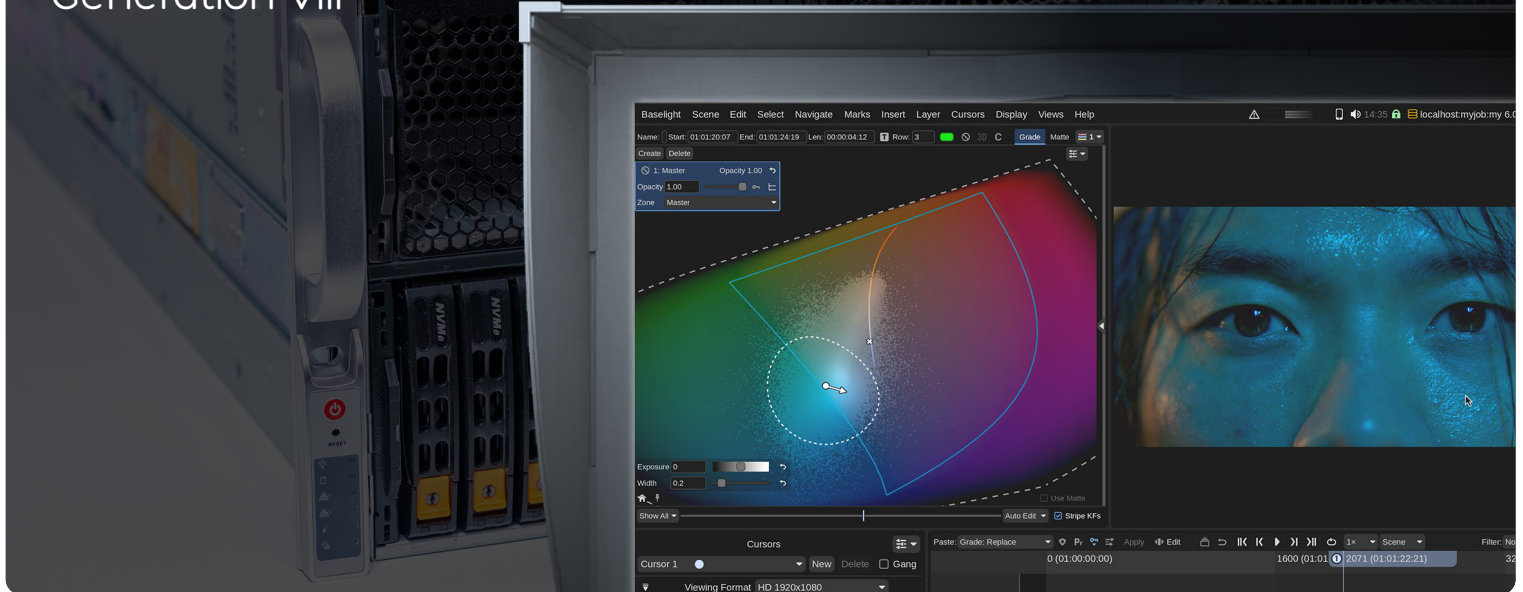# Baselight X

Generation VIII

Expandable colour correction capability in a single platform

FilmLight has drawn on over 20 years of experience in developing dedicated Linux colour correction platforms to produce a totally flexible 8th generation Baselight TWO system. This system is unique, in that the same chassis can be easily upgraded to a full Baselight X system as your business requires.

Built around dual Intel® Xeon® Sapphire Rapids CPUs, the 4U data centre chassis is equipped with two Nvidia RTX 6000 Ada GPUs in a Baselight TWO system and six GPUs in a Baselight X configuration - together with up to 210TB of blisteringly fast NVMe SSD.

Scalable GPU processing

With the introduction of Machine Learning (ML) algorithms, system specification is no longer a simple calculation of processing versus resolution and frame rate, even if you take 8K into account.

Creatives are always demanding the latest technology, and ML algorithms that have probably not even been demonstrated today may well be a requirement for a project tomorrow. The ability to scale GPU performance with demand is key to future productivity.

That's why we've launched a fundamental reconfiguration of our hardware. Starting off with a Baselight TWO chassis, you can be secure in the knowledge that it is ready to upgrade to a fully configured Baselight X system with six Nvidia RTX 6000 Ada GPUs and beyond - without compromising option slots or replacing components.

Flexible NVMe SSD capacity

For the highest performance storage, Baselight TWO is equipped with up to eight 15.36TB Data Centre PCIe 4.0 NVMe SSD drives. If you are running off centralised storage these drives can be configured as a maximum performance striped cache, or if the drives are to be used both as local bulk storage and cache, they can be configured as a high-performance software RAID.

Even in RAID-protected mode the NVMe hosted XFS file system with eight drives is capable of over 12GB/sec write, 50GB/sec read (8K 60P 16 bit RGB is 11.94GB/sec). As with the GPUs, the system is configured to be easily upgraded in the field from two NVMe SSD drives at entry level all the way to the full complement of sixteen drives.

Options

Nvidia RTX 6000 Ada GPUs

»   Baselight TWO: 2x GPUs

»   Baselight X: 6x GPUs (8x optional)

High-performance NVMe SSD drives

»   16x 2.5" hot-swap drive bays

»   2/4/8/16x 15.3TB Data Centre PCIe 4.0 NVMe SSD giving 30.7/61.4/122.9 /244.8TB cache.

»   High-performance software RAID option for NVMe SSDs, RAID 5 for 8 drives providing 107.7TB or RAID 6 for 16 drives providing 215TB.

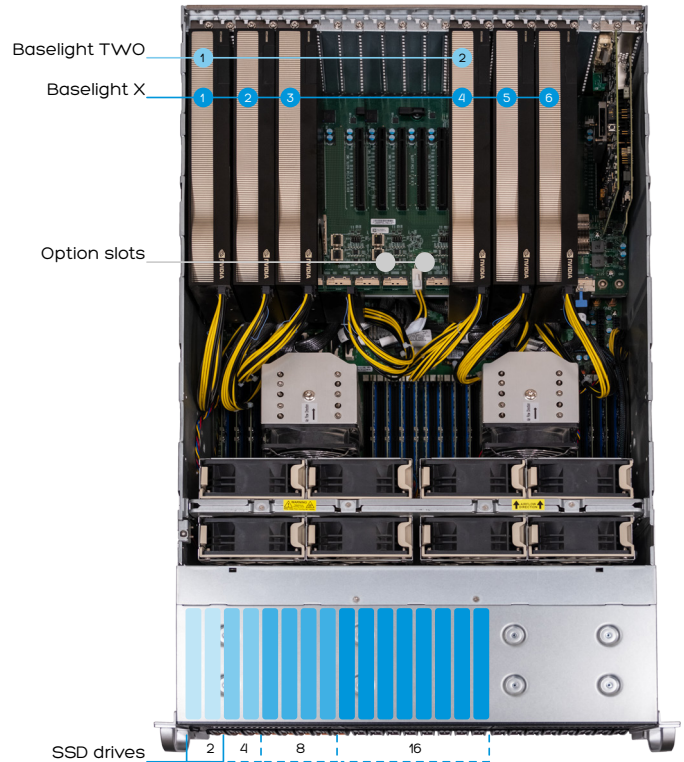### 360TB high-performance external storage

»   Available with 24x 18TB of external, high-speed RAID 60 storage totalling 360TB protected capacity in a 2U chassis.

Key features

»   Separate user interface host processor with support for up to three UI displays.

»   Can be supplied with our flagship control surface Blackboard 2, or Blackboard Classic or Slate.
    (Also supports other control surfaces, including Tangent Wave and Element.)

»   4x 3G-SDI video output hardware provides support for SD to HD, 2K and 4K with full 10-bit 4:2:2 and 4:4:4 colour at display frame rates up to 60P - including stereo. Optionally upgradable to 4x 12G-SDI and 8K 60P (standard on Baselight X). See the *Baselight 12G-SDI datasheet* on the FilmLight website for details.

»   Dual Intel® Xeon® Sapphire Rapids CPUs.

»   2x RJ45 10GbE

»   2x QSPF28 100GbE

Connectivity

The Generation VIII Baselight TWO comes with dual RJ45 10GbE ports and dual QSPF28 100GbE ports. 4x 3G-SDI Digital Video Output is supplied as standard with 4x 12G-SDI available as an option. There is also a spare PCIe 5.0 x16 slot for an optional network/SAN interface card.

Physical and environmental specifications

Master unit:

»   4U rackmount (WxDxH) 437x737x178mm (17.2x29x7")

»   4x 2700W PSU (2 + 2 Redundant) Input: 200-240V, 13.5-16A (50-60Hz) with 4x C20 connectors. **Note: Minimum 200V**

»   Heat output: BL2 (2x GPU) ~ 4,400 BTU/h
                   BLX (6x GPU) ~ 6,500 BTU/h
                   BLX (8x GPU) ~ 8,900 BTU/h

»   Operating temperature: 10 ~ 35˚C (50 ~ 95˚F)

»   Operating humidity: 8 ~ 90% RH (non-condensing)

External storage (optional):

»   2U rackmount (WxDxH) 437x864x89mm (17.2x34x3.5")
    Note: Cable management adds 180mm (7") to depth

»   2x 1000W PSU (1 + 1 redundant) Input: 100-240V, 7-9.8A (50-60Hz) with 2x C14 connectors

»   Heat output ~ 1,500 BTU/h

»   Operating temperature: 5 ~ 35˚C (41 ~ 95˚F)

»   Operating humidity: 8 ~ 90% RH (non-condensing)

User interface host PC:

»   Desktop PC: (WxDxH) 216x216x58mm (8.5x8.5x2.28")

»   External PSU: 100-240V, 5A (Max @ 110V)

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