

Baselight Ultra High Definition FilmLight

Support for 4K High Frame Rate



We're bringing the power and potential of Ultra High Definition to Baselight—for both new and existing systems.

Ultra High Definition (UltraHD) technology provides the ultimate in image quality, so it makes sense that you need a grading system that can keep up with the changes.

Here at FilmLight, we've developed an UltraHD video output with integrated audio output and it's shipping right now on all new Baselight systems.

But we realise that the push to higher resolution and frame rate workflows can be difficult to follow when you've got established post-production equipment. That's why we've also made UltraHD available as a cost-effective upgrade for the majority of Baselight systems on Generation V hardware.

Not only that, but we've produced an update kit to take Generation IV systems to Generation V—with the minimum amount of additional purchased hardware—so Generation IV systems owners can become UltraHD-capable too.

New Features

- » The 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 frame rates up to 60p—including stereo.
- » HDMI 2.0b output capable of displaying 4K/UHD on the latest UltraHD monitors—making UltraHD monitoring more affordable.
- » Audio output is either embedded in the SDI/HDMI outputs or provided via AES/EBU.*
- » Baselight continues to maintain hardware segregation between video & audio for display and video & audio I/O for ingest/play-out. The latter can still be used independently of grading activity via separate optional hardware for this function.

* ADAT audio is no longer supported on new/upgraded systems.

Specifications

Digital Video Output

- » 3G-SDI, SMPTE-259/292/296/424
- » Single Link 4:2:2 or 4:4:4 (1 x BNC)
- » Dual Link HD 4:4:4, (2 x BNC)
- » 4K/UltraHD 4:2:2 and 4:4:4
- » HDMI v2.0b, 30/36 bits/pixel, RGB or YUV, 2.25Gbps, SD, HD and UHD with HFR support up to 60p 4:2:0
- » DCI 2K and 4K

Audio Output

- » 16-channel, 24-bit SDI embedded
- » 8-channel, 24-bit HDMI embedded
- » 8-channel, 24-bit AES/EBU
- » 16-channel, 24-bit AES/EBU
- » 2-channel unbalanced phono analogue audio

Upgrading to UltraHD for Gen V hardware

The UltraHD system requires an updated software licence, alongside a new PCIe card and 1U breakout box for video and audio output.

You need a single width PCIe x8 slot, but this is typically freed up as the new hardware takes the place of the current audio PCIe card.

Requirements

- » Generation V Baselight ONE, TWO or FOUR system on hardware support
- » FilmLightOS 6.4
- » Baselight v4.4.xxxx or later

Upgrade components

- » Software licence
- »



Upgrading to UltraHD for Gen IV hardware

If you have a Generation IV Baselight system you can still take advantage of the UltraHD upgrade, but because of the bandwidth requirements your nodes have to be upgraded to also include the following Generation V components:

- » Motherboard
- » Memory
- » CPU
- » GPU

The higher performance components required to support UltraHD also provide improved performance for all formats:

- » Faster compressed media decode and encode. For example, compressed camera formats such as F55 to compressed delivery formats such as DNxHD.
- » Higher grading performance. Utilising faster GPUs, CPUs, memory and higher transfer rates between all these components improves interactivity and throughput for complicated grading stacks.
- » Increased network performance from faster processors.
- » Native USB3 connectivity for removable drives.

The UltraHD upgrade replaces the following components on existing Generation V Baselight systems:

System	Video Output	Audio Output	Synchronisation
Baselight ONE	DVI-to-SDI	PCIe RME Hammerfall HDSP9632 or USB Audio	N/A
Baselight TWO	DVI-to-SDI or Cinema 4K Framestore	PCIe RME Hammerfall HDSP9632 or USB Audio in Node 0	N/A
Baselight FOUR	1 x Combiner + DVI-to-SDI or Cinema 4K Framestore	PCIe RME Hammerfall HDSP9632 in Node 0	4 x parallel port cards + parallel barrier cable

* Any hardware removed as part of the upgrade process becomes the property of FilmLight Limited.

FAQs

How do I upgrade my Baselight system to UltraHD?

The UltraHD upgrade will require a site visit from a FilmLight engineer. Contact your local sales representative for more information.

How much does the upgrade cost?

This is dependent on your existing kit. Your FilmLight sales representative will be able to provide you with a full quote.

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