

# Baselight 12G-SDI

Support for 8K displays

FilmLight



Bringing the latest resolution and high frame rate capabilities to new and existing Baselight systems.

Whether it is avoiding the complexity of running multiple 3G-SDI links to a 4K monitor, or pushing all the way to 8K or even 3D 4K stereo at 120P, Baselight's latest 12G-SDI option provides the solution.

Creatives are of course driven towards ever-higher frame rates and resolutions to achieve their storytelling ambitions. And display manufacturers are eager to deliver new visual experiences. This can leave those with an established post-production setup unable to meet the challenge.

FilmLight meets that challenge and offers the Baselight 12G-SDI solution both as an upgrade to suitable existing systems as well as an option on newly purchased Baselight systems.

## Features

### Baselight ASSIST, Baselight ONE and Baselight TWO

- » 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.
- » 4K 60P or 4K 30P over a single 12G-SDI or 6G-SDI link respectively.
- » Audio output embedded in the SDI/HDMI outputs or provided via AES/EBU.

### Baselight X

All standard features plus the ability to switch into 8K/HFR mode, providing:

- » 8K 60P over quad 12G-SDI.
- » 4K 120P stereo over quad 12G-SDI.

## Specifications

### Digital Video Output (4K/12G)

- » Up to 4x 3G-SDI, or 1x 12G-SDI I/O
- » Single link 4:2:2 or 4:4:4 (1 x BNC)
- » Dual link HD 4:4:4, (2 x BNC)
- » Dual link 4K/UHD 3G-SDI 10-bit 4:2:2 4K at up to 30p (2x BNC)
- » 4K/UltraHD 4:2:2 and 4:4:4 up to 60P (4x BNC or 1x BNC)
- » 1x HDMI 2.0 output (4K HFR 4:2:2 10-bit)
- » DCI 2K and 4K
- » 12-bit colour support
- » HDR: HLG (Hybrid Log Gamma) and Dolby Vision

### Digital Video Output (8K/12G/HFR)\*

- » Up to 4x 12G-SDI
- » Quad link 8K 60P (4 x BNC)
- » Quad link 4K 120P stereo (4 x BNC)
- » DCI 8K

\* Baselight TWO and Baselight X in 8K/HFR mode only.

### 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



Director Ang Lee alongside long-term collaborators, editor Tim Squyres and Technical Supervisor Ben Gervais, meeting the FilmLight team at IBC 2016.

Ang Lee's latest film *Gemini Man* incorporates 120fps (frames per second) footage, with 4K, 3D and high dynamic range (HDR) - techniques that Lee first utilised on 2016's experimental forerunner *Billy Lynn's Long Halftime Walk*.

FilmLight worked closely with the director's production team to ensure the technology delivered. The grade was performed by Adam Inglis on the Baselight X system and by Marcy Robinson, who has also graded *Gemini Man*.

### Upgrading to 12G-SDI for Gen V-VII hardware

All Baselight Generation V, VI and VII systems that have a free 8-lane PCIe 3.0 slot are capable of being upgraded to the 12G-SDI option, including Generation V systems originally supplied with FilmLight's own DVI-to-SDI Converter.

Physically, an upgrade to 12G-SDI from a UHD Baselight system will require the replacement of the current PCIe 3G-SDI card with a 12G-SDI PCIe card, and the change from a 1U breakout box (if used) to just a breakout cable for 8-channel AES/EBU audio.

### Specifying or upgrading a Baselight system

System	12G-SDI	8K/HFR*
Baselight ONE/ASSIST	Hardware option	Not available
Baselight TWO	Hardware option	License option
Baselight X	Standard	Standard

\* Of course, being able to drive a display at 8K 60P or 4K 120P stereo does not mean that the system is effective for grading at that data rate. Please discuss with your local sales representative the workflow that you wish to achieve.

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