Feature Spotlight

FRAME REMAPPING

One Screen – Multiple Streams.

Frame Remapping enables multiple cameras to see and capture a uniquely rendered virtual background with the correct perspective. Alternatively, a matte background can be captured simultaneously – unlocking the many possibilities of in-camera visual effects alongside the benefits of green screen.

- ✓ Frame Remapping is easy to use and doesn't require special training or technicians to configure it and make it work.
- ✓ It can also be used with Brompton Technology's other class-leading features such as HDR, 3D LUT and ShutterSync.

Maintain Multiple Perspectives

Brompton Technology's Frame Remapping feature makes it possible for multiple cameras to capture different content, such as different frustums, when shooting the same LED screen at the same time. This opens up a world of possibilities for virtual production and is available on our Tessera SX40 and S8 LED processors with a free firmware update.

Frame Rate Multiplication allows an LED screen to refresh at a frame rate that is a multiple of the genlock frame rate, up to a multiple of ten times, to ensure the camera sees a complete image every time it opens its shutter. Frame Remapping extends this by allowing you to specify exactly what part of the input raster is output for each of these additional frames. To the eye, the different content will appear to be superimposed, but a camera that is genlocked and set to the appropriate phase offset can capture any one of the content streams.

Many virtual production workflows rely on camera tracking systems that send camera position, azimuth and lens information into real-time CG environments, such as Unity and Unreal Engine. This generates a photo-realistic, real-time frustum, which is displayed on a volume's LED screen. The frustum updates continually as the camera follows and captures the live action in front of it, thus creating the illusion of filming in a real location. This frustum is designed to be used with one camera system and is rendered for that camera's perspective. But what if you wanted to film from other perspectives, using different frustums, at the same time? This is where Frame Remapping comes in.

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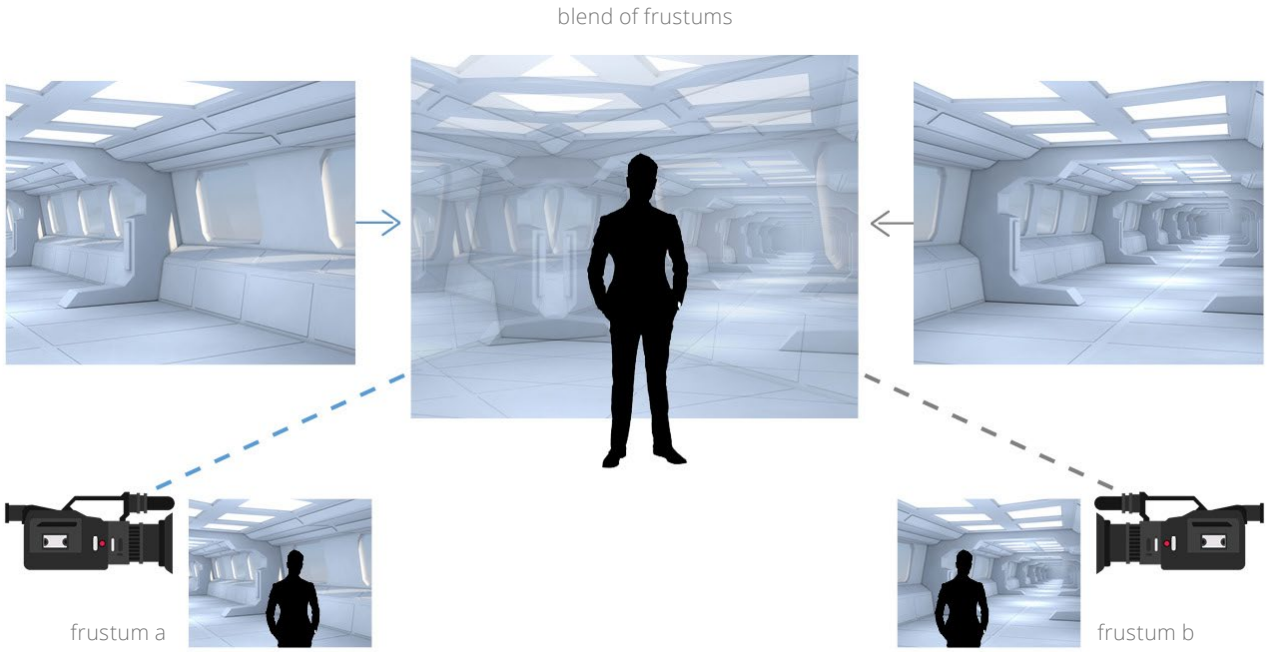
Interleave Solid Colours

It is also possible to interleave frames of any solid colour, which has significant additional benefits. Black frames can be inserted to reduce motion blur. Blue or green frames can be inserted so that separate cameras can be used to capture both a virtual background and a matte background for post-production keying.

The ability to capture green screen content gives directors and producers more options should they need it. Content can be changed in post-production or different versions of the finished piece created. The colour can also be changed dynamically on set, so you can choose the colour you want to shoot against, which is also useful should a wardrobe issue arise.



Brompton Technology is the market leader in LED video processing for the most demanding applications across live events, virtual production, broadcast/XR, simulation/VR, fine-pitch installations and esports. The company has won multiple awards and become a globally respected brand, known for the quality and reliability of its products and exceptional technical support. For more information, visit www.bromptontech.com.

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