Feature Spotlight

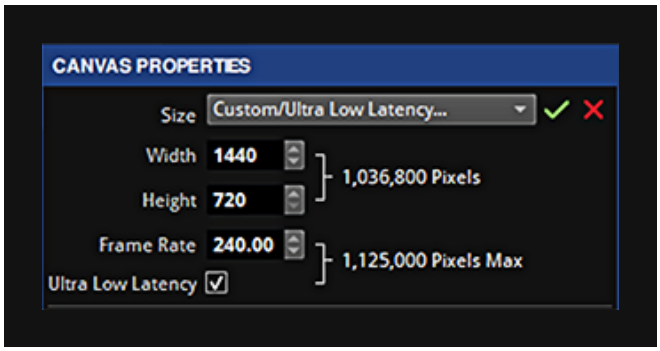
ULTRA LOW LATENCY

Reduce end-to-end latency for optimal performance.

Brompton Technology's Ultra Low Latency feature can quickly reduce latency to make it easier to synchronise live action and tracked camera moves.

Latency, or video delay, is defined as the time between the last cycle of a source frame appearing on the processor's input, and the first cycle that an LED on a fixture is lit with that frame.

In many real-time applications such as broadcast, simulation, esports and virtual production, minimising latency is critical to achieving optimal performance. For instance, the lowest possible latency is required in virtual production environments where camera tracking systems are used.

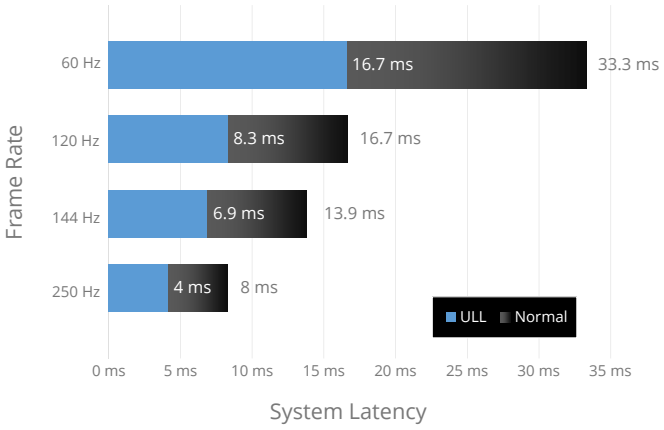


Easily Reduce Latency by Half

Our Tessera SX40 and S8 processors already have an industry-leading 2 frame end-to-end latency with all features enabled. However, by enabling our Ultra Low Latency feature, it is possible to half the end-to-end latency to just 1 frame. This comes at the expense of the processor's pixel capacity and is only available with PC-based HDMI 2.0 sources such as media servers and render nodes.

Use with HFR+ for Lowest Possible Latency

Ultra Low Latency can be used in conjunction with High Frame Rate Plus (HFR+), though the pixel capacity is reduced by using both features together. When using a 250Hz frame rate you can achieve the lowest possible system latency of 4ms.



- ✓ Reduce end-to-end latency to just 1 frame.
- ✓ Can be used with HFR+.
- ✓ Beneficial for broadcast, esports, simulation and virtual production.
- ✓ Achieve lowest possible system latency for optimal camera tracking.

Brompton Technology is the market leader in LED video processing for the most demanding applications across key sectors including Virtual Production & ICVFX, Live Events & Touring, Corporate & Education, Broadcast & Studio 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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