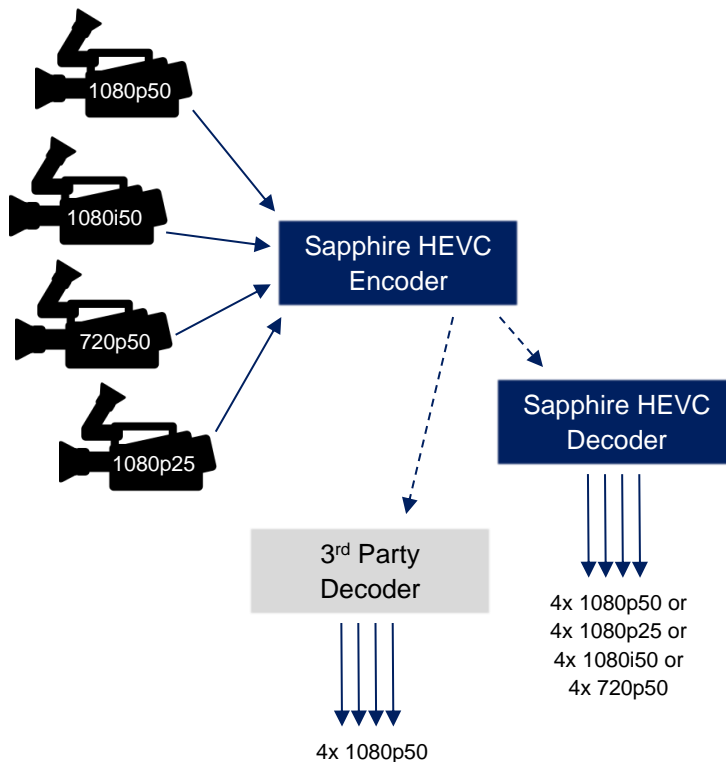


QuadSync 4K



Key Features

- 4 independent (asynchronous) HD feeds through a single link
- Automated multi-standards conversion at encoder
- Selectable common production standard at decoder
- 4 pairs of audio from first input or 1 pair of audio from each input
- Exceptional size, power and bandwidth efficiency vs four units
- Licensable feature at encoder and/or decoder depending on requirements

Software History

- v1.4.5... QuadSync input support
- v1.5... QuadSync output support and expanded audio routing options
- v1.6... Expanded input support including 720p and improved 1080i
- v1.6.1... Output support for 720p
- v1.7... 2 pairs of audio per input

The Sapphire Codec system features innovative QuadSync technology allowing a single UHD link to be used for four channels of HD instead. The perfect accompaniment to Sapphire Ultra-low latency HEVC encoding, QuadSync introduces no more than a single frame of additional delay.

On an encoder with QuadSync not only can the four sources be asynchronous, but they can also be a variety of different, automatically detected HD-SDI and 3G-SDI formats. This removes the need for external frame resynchronisers or standards conversion required when using a range of different cameras and video sources across a large production.

On the decoder all four outputs are presented in a common standard, regardless of the original source format. With QuadSync you gain the option of converting again without the need for external frame resynchronisers or standards conversion.

Simple but flexible audio routing is available. Either take up to 8 pairs of audio from the first SDI input, or 2 pairs of audio for each SDI input. Pass-through of non-PCM audio and data is compatible with QuadSync for the first SDI input. Pairs of audio are re-embedded on the same SDI output/group/channel as they came from.

Encoder Format	Default Input (synchronous)	QuadSync Input Standards (asynchronous)	Default Output Standard	QuadSync Output Standards
2160p60	4x 1080p60	4x 720p30, 720p60, 1080i60, 1080p30, 1080p60	4x 1080p60	4x 720p60, 1080i60, 1080p30
2160p59	4x 1080p59	4x 720p29, 720p59, 1080i59, 1080p29, 1080p59	4x 1080p59	4x 720p59, 1080i59, 1080p29
2160p50	4x 1080p50	4x 720p25, 720p50, 1080i50, 1080p25, 1080p50	4x 1080p50	4x 720p50, 1080i50, 1080p25
2160p30	4x 1080p30	4x 720p30, 720p60, 1080psf30, 1080p30, 1080p60	4x 1080p30	4x 720p60, 1080psf30, 1080p60
2160p29	4x 1080p29	4x 720p29, 720p59, 1080psf29, 1080p29, 1080p59	4x 1080p29	4x 720p59, 1080psf29, 1080p59
2160p25	4x 1080p25	4x 720p25, 720p50, 1080psf25, 1080p25, 1080p50	4x 1080p25	4x 720p50, 1080psf25, 1080p50
2160p24	4x 1080p24	4x 720p24, 1080psf24, 1080p24	4x 1080p24	4x 1080psf24
2160p23	4x 1080p23	4x 720p23, 1080psf23, 1080p23	4x 1080p23	4x 1080psf23