

Case study: InSync Technology deliver market leading video deinterlacing into EVS Synapse product range

EVS is globally recognised as the leader in live video technology for broadcast and new media productions. Through a wide range of products and solutions, EVS deliver the most gripping live sports images, buzzing entertainment shows and breaking news content to millions of viewers every day – and in real-time.

The need for high quality video deinterlacing

Interlaced video is still a fact of life for both standard and high definition programme production and delivery. Deinterlacing is often the first step as content passes through what can be many processing stages - so it is absolutely critical to retain the highest possible quality.

Inferior deinterlacing methods can lead to jagged edges, ghosting and picture blur. These artefacts can lead to even more undesirable results when compounded by subsequent processing and further magnified by upscaling.

The EVS Synapse product range offers high quality signal processing in a modular form factor. Each module provides a unique set of features, and combined with the EVS Synapse control system, full broadcast workflows can be quickly and easily configured.

EVS wanted to refresh the deinterlacer within the Synapse upconversion processing modules. The key objectives were:

- to find a very high quality deinterlacer which could be delivered as an IP-core, enabling rapid integration into EVS products, such as the new GXG500 module
- a cost-effective solution was needed to address external competitive pressures
- fast delivery was essential as a previous licensing solution was about to expire

InSync Technology motion adaptive deinterlacing

EVS evaluated a number of solutions before selecting InSync Technology, known experts in standards conversion and image processing.

InSync's deinterlacer performs a proprietary motion-adaptive deinterlace which provides exceptional quality results in both still and moving areas. Included in the solution is a unique patented still adaption method which preserves details in stationary areas.

Refined through many years of iterative development, the InSync core was of a much smaller footprint than the existing solution used by EVS, thereby saving on resource and power.



"It's been great working with InSync Technology", said Peter Schut, SVP Media Infrastructure at EVS Broadcast Equipment. "They have lengthy expertise in deinterlacing and provided exactly the quality and footprint that we needed. Not only that, they're a really nice team to work with and we're already discussing future projects".

If you would like to discuss licensing of InSync Technology's IP cores, please contact us: enquiries@insync.tv