
Video Over IP Solution for Digital Operating Rooms



Advantech, a leading provider of medical computing systems for digital healthcare applications, and Technolution are pleased to announce their cooperation regarding SigmaXG a video streaming solution for the Digital Operating Room. SigmaXG is an easy to use, fast and flexible switching system for Video over IP. Advantech adopted the SigmaXG NDcoder 10G, to deliver a total solution together with their medical grade panel pcs, medical displays (with integrated NDcoder) and Mobile Solutions for digital OR integration. From February 2017 onwards Advantech branded products are available.

One product, one cable

SigmaXG is based on an one product and one cable infrastructure. An NDcoder is an encoder and decoder in one single product. All signals (video, audio, USB and more) are transported via 10Gb optical fiber. High quality video is switched instantaneously and is streamed with very low latencies. Video is distributed without any loss of information, because there is no compression applied. The API can be used for easy integration in your applications and systems. A SigmaXG system is scalable and easy to extend, just plug in an extra NDcoder. Because the system works with standard IP it is compatible with a wide range of off-the-shelf network components.

Key Features NDcoder:

- Switches video, to any connected display instantaneously
- Less cables (1 fiber needed per device)
- Streams uncompressed and lossless video up to 4K
- Near to zero latency to ensure excellent hand/eye coordination
- Various multiview layout for up to four video streams on one display
- Control sources remotely (MouseThru and TouchThru in Multiview)
- Share video between operating rooms
- Easy integration of SigmaXG with API

Integrate video steams

"We are delighted to expand our hardware portfolio with the SigmaXG NDcoder. It complements our range of medical computer hardware for integrating in digital operating rooms. OR specialist get more flexibility with all the medical imaging devices to switch video to the direcation they want. The video over IP NDcoders from SigmaXG will result in accurate and efficient work method in a hospital," says Paul Jaspers, Product Sales Manager at Advantech.

"It is great to have Advantech as a partner to bring SigmaXG to the market. The sales and marketing power of Advantech and their ability to support their clients wordwide creates a huge opportunity for SigmaXG."

We are impressed by the drive of Advantech to bring a new product to the market . Combined with their strong brand and partner network in the healthcare domain the condiontions for success are there" says Jacco Wesselius, director products at Technolution.

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