

4SEES



MARITIME VIDEO OVER SATELLITE SOLUTION

With the recent improvements in global satellite connectivity and in video encoding performance, AKD Sat-Comm are pleased to introduce **4SEES**.

4SEES is the solution for providing “live” video feeds and data from any offshore installation, to be monitored and controlled from the clients hub HQ. Once connected the system can transmit 4-16 video and data feeds simultaneously at varying data-rates depending on the bandwidth availability. These feeds can all be monitored in the hub on a large screen and one or two can be selected to be high resolution (2-3Mb/s). The video and data inputs could be from many different areas for example:

- ▶ Remotely Operated Vehicle (live video, data and comms)
- ▶ Divers saturation and air control rooms (live video and comms)
- ▶ Off shore installation video system (vessel, barge, platform etc)
- ▶ Wireless pan and tilt camera on the back deck
- ▶ Survey data

The client is able to monitor multiple vessels simultaneously meaning that surveyors can work much more efficiently & cost effectively with multiple vessels from the comfort of the office.

4SEES comes as standard with 4, 8 or 16 channels of video.

Additional Benefits

- ▶ Monitoring & Security
- ▶ Health & Safety Assist
- ▶ Emergency Evacuation Assist
- ▶ Crew Training & Development
- ▶ Reduced offshore personnel



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THE TECHNOLOGY

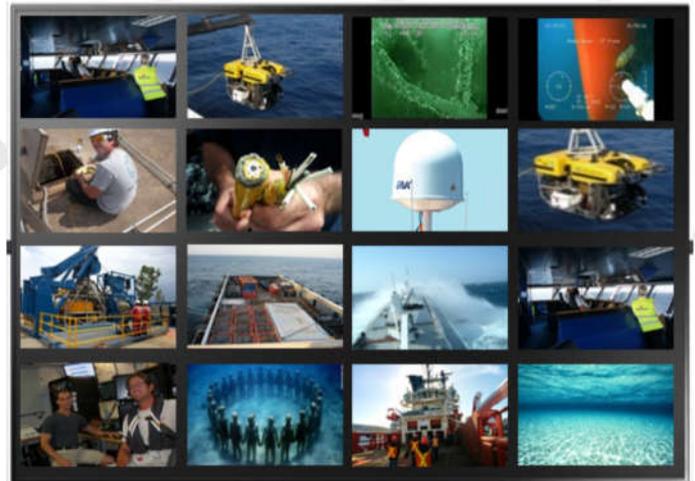
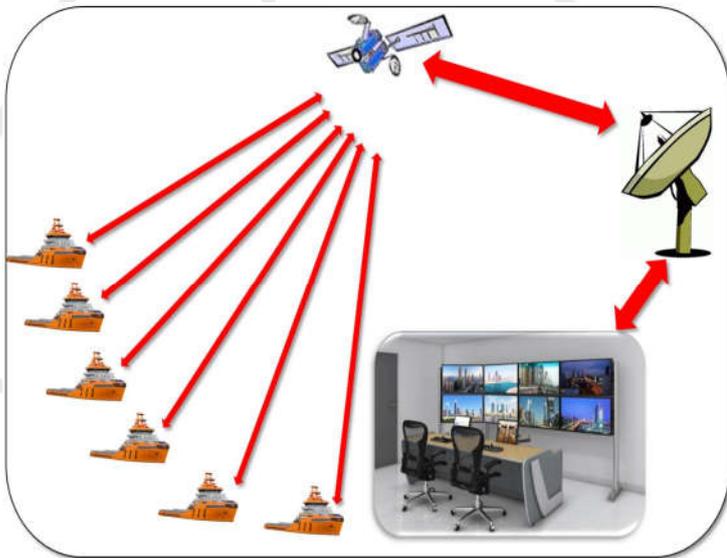
The satellite platform used is designed to maximise the available bandwidth by dynamically adapting to the changing climatic conditions.

The encoding system utilises the latest in adaptive encoding technologies to enable the best quality video from the smallest possible bandwidth.

On board high resolution recording of all video feeds at 10Mb/s rates. When the vessel returns to shore, these high resolution recordings can be transferred manually to the hub based storage. All video is time & date stamped to enable efficient searching.

The vessel will also have 4G/LTE connectivity when it gets within 5 miles of the shore. The changeover between satellite and 4G is automatic.

The video conference system will work with the available bandwidth. That means if the vessel is transmitting live videos then the bandwidth might be restricted down to it's minimum datarate, but as soon as the video stops, then the VC system will automatically expand to fill the available bandwidth as required.



THE HUB

The hub is designed for specific customer requirements. We could provide each vessels video feeds on a single large format 85" LED screen as per the picture on the right. We could have a separate screen per vessel and a separate screen for the video conference system. When the hub operator selects 1 or 2 video feeds to be high resolution, then these are automatically fed to another screen or screens. We can also provide private screens in different rooms or even buildings. Detailed design of the hub will need to be the subject of client discussions following a successful proof of concept.

We are also able to provide a private feed or feeds to a remote location such as a CEO office or Minister.

OPTIONS

- ▶ Media Asset Management system (MAM) to safely store all recorded data.
- ▶ Automatic data synchronisation whilst at shore via long range Wi-Fi.
- ▶ IP encryption to provide superior-grade network encryption and secure communications for global IP networks, AES 256bit.
- ▶ Environmental monitoring and reporting of each vessel.