



The new KONGSBERG cNODE Mantis adds live video streaming to the capabilities of this celebrated acoustic positioning system

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Kongsberg Maritime introduces new wireless video solution for subsea operations

Oi 2022, ExCel London, booth #D600, 15th March 2022 – Kongsberg Maritime (KM) is proud to announce the launch of its cNODE Mantis – an exciting new addition to the cNODE product range of acoustic modems which introduces the new capability to stream a live video feed for a variety of subsea installation tasks.

Having established itself over the years as an acoustic positioning system of

unmatched reliability and robustness, the cNODE has set the standard for subsurface operational technology. The same principles of technical innovation and tough build quality have been brought to bear in the expanded functionality of the cNODE Mantis: the addition of a live video solution significantly increases the number of applications and services for which cNODE systems could be used.

“In many cases, the cNODE Mantis could be a vital asset for increasing efficiency in challenging operations by supplementing high-quality video from an ROV with acoustic video streaming from a remote camera placed on the seabed, or on a structure which is being lowered,” explains Jan Erik Faugstadmo, Product Line Manager, Kongsberg Maritime. *“During subsea installation projects, being able to visually monitor placement of structures on the seabed is obviously of prime importance, so in some scenarios it will be advantageous to have a second view to assist the ROV, or indeed to provide a view from an angle where it is impractical or impossible for an ROV to be positioned.”*

The full potential of the cNODE Mantis as ‘a second set of eyes’ in this respect is easily realised. The live video it streams is transmitted to a receiver installed either on the ROV’s TMS (Tether Management System) or on the vessel itself, at ranges of up to 500m. As the wireless video transfer works on a high-speed acoustics link it will function in both murky and clear water conditions and is unaffected by background light. With a bit-rate of up to 70 kbit/s, it allows for the transfer of live video with a typical quality of 420 x 380p at four frames per second.

“With the cNODE Mantis solution, live images can be streamed from an AUV or drone to a surface vessel equipped with a HiPAP 502 system upgraded with a Mantis receiver, or towards a separate receiver installed on a surface vessel,” adds Spencer Collins, VP Sales, Kongsberg Maritime. *“Its adaptability makes it as useful a tool for applications such as marine research as it does for the construction, surveying and maintenance of offshore assets.”*

Visitors to Oceanology International 2022 in ExCel London, March 15-17 2022 will be able to see the cNODE Mantis on the Kongsberg Maritime stand, D600.

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About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable 'Full Picture' technology solutions for all marine industry sectors including merchant, offshore, cruise, subsea and naval. Headquartered in Kongsberg, Norway, Kongsberg Maritime has manufacturing, sales and service facilities in 34 countries.

Kongsberg Maritime solutions cover all aspects of marine automation, safety, manoeuvring, navigation, and dynamic positioning as well as energy management, deck handling and propulsion systems, and ship design services. Subsea solutions include single and multibeam echo sounders, sonars, AUV and USV, underwater navigation and communication systems.

Training courses at locations globally, LNG solutions, information management, position reference systems and technology for seismic and

drilling operations are also part of the company's diverse technology portfolio. Additionally, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

Kongsberg Maritime is part of Kongsberg Gruppen (KONGSBERG), an international, knowledge-based group that celebrated 200 years in business during 2014. KONGSBERG supplies high-technology systems and solutions to customers in the oil and gas industry, the merchant marine, and the defence and aerospace industries.

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