



USCGC Polar Star (WAGB-10). Photo courtesy of uscg.mil

Jan 21, 2016 10:19 GMT

Kongsberg Maritime: KONGSBERG Completes Supply of Harsh Environment CCTV System for US Coast Guard Heavy Ice Breaker

Kongsberg Maritime has delivered a complete new CCTV system to the US Coastguard for its Heavy Ice Breaker vessel Polar Star (WAGB-10). The delivery follows a successful CCTV System upgrade on Polar Star's sister vessel, the USCGC Healy Polar Ice Breaker, in 2013.

The USCGC Polar Star is one of the largest ships in the US Coast guard and one of the world's most powerful non-nuclear ships. It was commissioned in 1976 but in 2006 went into 'Caretaker' status when the crew was reduced and the ship kept ready for a return to ice. In 2013 the Polar Star was officially reactivated and reassumed its variety of missions throughout the polar regions.

The Kongsberg Maritime CCTV range is a scalable harsh environment marine platform that incorporates a combination of high quality in-house design with modified off the shelf (MOTS) video camera stations, telemetry and control components. The exposed cameras on the Polar Star are manufactured from stainless steel and engineered to withstand harsh exposed marine environments and extreme low temperatures. Many system components comply with the highest naval specifications for shock, vibration, EMI, temperature and humidity.

The system deployed on the Polar Star comprises a range of marine grade camera stations including fixed cameras with zoom capability and one PTZ (Pan, Tilt & Zoom) camera, in the exposed above deck locations. These cameras utilise a high resolution low light colour/mono sensor with 18 x optical zoom and feature an integrated wiper system. Below deck surveillance and safety is provided by a series of high resolution varifocal colour dome cameras with built in IR illumination for operation in poor lighting conditions.

The new Kongsberg Maritime CCTV system will provide improved video image quality, more flexible control, power conditioning, viewing, recording options and maximum durability for operating in some of the most hostile marine conditions. High quality images are distributed throughout this 400 foot long ship via a large video matrix and full control of all the cameras is made available at telemetry keyboards with three axis joystick control.

The Polar Star, as with the Healy, has its homeport in Seattle, USA. KUTI (Kongsberg Underwater Technologies Inc.) based in nearby Lynnwood, WA, provided the customer with local assistance during the commissioning of the CCTV system for the Healy and will provide similar support for the Polar Star.

KONGSBERG has worked closely with the US Coastguard on both Polar Star and Healy projects to provide all equipment in a timely manner and facilitate the support levels required to see these projects through to a satisfactory

conclusion for this prestigious customer.

For further information on the Kongsberg Maritime Camera Range please visit <http://www.km.kongsberg.com/cameras>

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About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable technology solutions for all marine industry sectors including merchant, offshore, subsea and naval. Headquartered in Kongsberg, Norway, the company has manufacturing, sales and service facilities in 20 countries.

Kongsberg Maritime developed systems for vessels cover all aspects of automation, control, navigation, safety and dynamic positioning. Subsea solutions include single and multibeam echo sounders, and AUV/underwater navigation, communication and camera systems. Marine and offshore training simulators, LNG solutions, information management, position reference

systems and technology for seismic and drilling operations are also part of the company's diverse technology portfolio.

In parallel with its extensive technology portfolio, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

Kongsberg Maritime delivers solutions that cover all aspects of technology underwater and on the water, aboard new build and retrofit vessels, and on offshore platforms and rigs, often under a single supplier strategy called The Full Picture.

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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