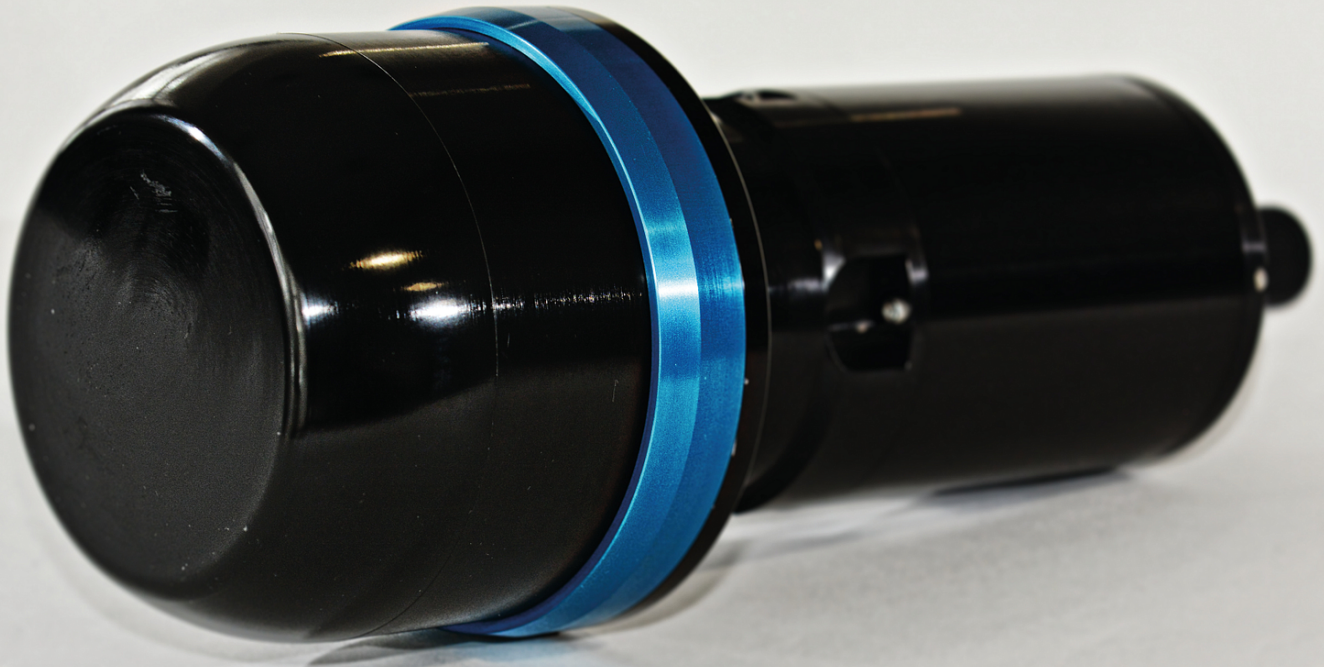




Clariscan offers the same protective attributes of standard domed transducers without the traditional loss in performance and image clarity.

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Kongsberg Maritime: KONGSBERG's new 'Clariscan' High Performance Domed Scanning Sonar Ready for Delivery

Following introductions this year at Subsea Expo and Underwater Intervention in February and Oceanology International in March, KONGSBERG's state-of-the-art Clariscan Domed Scanning Sonar is now available. Clariscan combines wide bandwidth composite transducer technology developed by Kongsberg Maritime's Canadian subsidiary Kongsberg Mesotech, with a patented acoustic lens to provide exceptional

image quality. This innovative new sonar offers the same protective attributes of standard domed transducers without the traditional loss in performance and image clarity.

“We are very pleased to introduce Clariscan technology to our product line,” says Daryl Morse, Sales Manager at Kongsberg Mesotech. “Our 1171 4000 m depth-rated sonar already performed very well with the monolithic transducer, but with the addition of the wide-bandwidth composite transducer and acoustic lens, the image quality is exceptional. The acoustic lens is one of the most significant enhancements in the history of scanning sonar. It’s a game-changer.”

Domed sonars were introduced in the 1990s using enclosed transducers in an oil-filled dome to provide mechanical protection and eliminate flooding due to O-ring failure on the exposed transducer shaft. While the oil-filled dome solved the O-ring flooding failures, it introduced beam defocusing in two conditions, warm & shallow and cold & deep. The beam defocusing effect reduces clarity of the images produced and becomes more extreme in cold deep water as depth increases. Until now, there has been no solution to this problem, aside from using a high-resolution scanning sonar head.

KONGSBERG engineers have solved this problem by designing a patented acoustic lens that maintains beam focus through the entire operational temperature and depth range, significantly improving sonar performance and resulting in images that are much sharper. The Clariscan acoustic lens behaves like an optical contact lens, correcting the refraction caused by the oil in the dome.

Deep water testing in the Gulf of Mexico has shown the clarity of images produced by the Clariscan compared to a standard 1171 domed sonar with composite transducer (see accompanying images). The two sonar heads were mounted side by side on the ROV (Remotely Operated Vehicle) and thus exposed to the same temperature, pressure and salinity conditions, and were operated simultaneously during image capture. The image quality of the Clariscan sonar unit is clearly superior, rivalling a high-resolution scanning sonar head.

KONGSBERG is taking orders of the Clariscan Domed Scanning Sonar and the new units are going into production effective immediately.

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About Kongsberg Mesotech Ltd.

Kongsberg Mesotech Ltd., the Canadian subsidiary of Kongsberg Maritime, is a global leader in the underwater acoustic industry with over 40 years of innovative product development and manufacturing experience.

Characterised by exceptional engineering capabilities, Kongsberg Mesotech focuses on providing customers with superior image resolution by producing quality and reliable equipment. Kongsberg Mesotech supplies a worldwide customer base with products for search and recovery, marine engineering, security and surveillance, fisheries and various other underwater applications.

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 and a total of 65 worldwide offices.

Kongsberg Maritime developed systems for vessels cover all aspects of automation, control, navigation, safety and dynamic positioning. Kongsberg Maritime also develops subsea solutions covering systems for Underwater Mapping (UMAP), Underwater Navigation (UNAV), Subsea Monitoring (SUMO) and Marine Robotics in addition underwater cameras.

Marine and offshore training simulators, LNG equipment, information management software, position reference systems, integrated aquaculture technology and advanced products to support seismic and drilling operations are also part of the company's diverse 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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