

maneuvers. The helmet system provides blunt impact protection that meets advanced combat helmet (ACH) standards.

Optimised for a variety of operators, particularly global Coast Guard, SAR, law enforcement and US National Guard forces, this skeletonised helmet system places a premium on scalability and integration, giving operators a more stripped-down base for affixing headborne equipment. The BATLSKIN CAIMAN Bump Helmet will be available for purchase by the end of Q1, 2018.

"With the addition of the CAIMAN Bump Helmet System, this family of head protection solutions continues to rapidly mature," said **Jonathan Blanshay, CEO, Revision Military**. "Revision has now unveiled a trifecta of versatile, lightweight, and scalable solutions that are ideal for fast-moving missions. Revision's CAIMAN solutions put the power in the hands of the user, letting the operator dictate their protection level, integration, fit, and weight in accordance with the mission ahead. This is the demand we heard from operators as we developed the CAIMAN line, and we will continue to address the needs of a wide spectrum of operational demands and mission profiles with this groundbreaking family of head protection solutions."

The skeletonisation of all system components in the CAIMAN Helmet Systems has significantly reduced the overall weight compared to currently fielded helmet systems, emphasising scalability and mission-specific accessories. Like Revision's other CAIMAN helmets, the CAIMAN Bump comes in five sizes, ensuring users are wearing some of the lightest,

most comfortable, and most stable helmets possible.

Moreover, CAIMAN helmets are expressly designed to incorporate electronics, communications headsets, and other specialised equipment needs – particularly, Revision's recently introduced, next-generation circumaural headset, the SenSys ComCentr2 Tactical Headset System.

The BATLSKIN family includes the CAIMAN Ballistic Helmet and the CAIMAN Hybrid Helmet with an optional Applique that ballistically-enables the Hybrid shell. Additional accessories include two visor variants, one that attaches directly into the Wilcox L4 SHROUD and one that works in tandem with front mounted equipment and two mandible variants, one bump and one ballistic, as well as a streamlined rail system, an innovative liner and suspension system, and helmet covers.



Revision's new BATLSKIN CAIMAN Bump Helmet System is intended for a variety of operators. (Photo: Mönch/DPM)

## Rolls-Royce Opens Autonomous Ship R&D Centre in Finland

Rolls-Royce has opened a state-of-the-art research facility in Turku, Finland, to develop the technologies Rolls-Royce and its partners require to shape the future of an increasingly more autonomous global shipping industry.

The new R&D Centre for Autonomous Ships includes a Remote and Autonomous Experience Space aimed at showcasing the autonomous ship technologies Rolls-Royce has already introduced as well as those in the development stage.

Commenting on how the Rolls-Royce R&D centre further strengthens Finland's commitment to developing autonomous transport, **Finnish Minister of Transport and Communications Anne Berner** said: "There is great global interest in autonomous vehicles and vessels as a future means of transport. The opening of the Rolls-Royce R&D Centre for Autonomous Ships here in Turku, a maritime city with a history of technological innovation, will help achieve our goal of digitalising the country's transport sector."

The new R&D Centre enables Rolls-Royce and its partners to carry out projects focussed on autonomous navigation, the development of

land-based control centres, and the use of artificial intelligence in future remote and autonomous shipping operations.

Speaking at the official opening on 25 January 2018, **Rolls-Royce President Marine Mikael Makinen** said: "I am proud to say that the R&D centre is now up and running and that all stakeholders, partners and customers will be able see here what a remote controlled and autonomous maritime future could look like, and work with us to shape the future. The experience space that is part of the centre here in Turku, and a similar one we have in our Technology Centre in Norway, is aimed at demonstrating to our customers the very tangible benefits of what is often considered an intangible technology."

The Experience Space includes several interactive tables on which Rolls-Royce can showcase existing and future technologies while aiding the development and introduction of new rules and standards for autonomous shipping.

"The centre allows us to more accurately communicate our capabilities, what we have available today and what will be available tomorrow," said **Karno Tenovuo, Rolls-Royce Senior Vice President, Ship Intelligence**. "It will completely focus on the development of solutions capable of smoothing the maritime industry's transition to the digital age. An autonomous maritime ecosystem will open up unprecedented opportunities."

It is now six years to the day that Rolls-Royce launched its first-ever autonomous ship development project UXUS (User Experience for Complex Systems).

## Streamlight Launches TLR-7 and TLR-8 Compact Rail Mounted Tactical Lights

At SHOT Show 2018, **Streamlight** launched two new compact rail mounted tactical lights, the TLR-7 and TLR-8.

Ultra lightweight (2.40oz/68.04g) and compact (2.15in/5.46cm), the **TLR-7** weapon-mounted tactical light features the latest in C4 LED technology for high lumen operation (500 lumens, 4,300 candela peak beam intensity and 131m beam distance) and provides 1.5 hours of continuous runtime from a single CR123A lithium battery. A rail clamp is designed to rapidly attach/detach from side of weapon, and a custom TIR optic produces a concentrated beam with optimum peripheral illumination, while optimised electronics provide regulated intensity. An ambidextrous, multi-function switch prevents snagging and a "Safe off" feature prevents accidental activation plus saves batteries. The light is rated IPX7, i.e. waterproof to 1m for 30 minutes.

The **TLR-8** weapon-mounted tactical light with integrated aiming laser features the latest in C4 LED technology for high lumen operation (500 lumens, 4,300 candela, 131m beam). At 2.15in/5.46cm and 1.18x1.50in /2.98x3.81cm, weighing 2.64oz. (75.0 grams) with battery, the light provides 1.5 hours of continuous runtime when in dual mode with the high power visible laser. The small and mighty TLR-8 with a 640-660nm red laser securely fits a broad range of full-size and compact handguns. Featuring the same as the TLR-7, the TLR-8 runs 1.5 hours (light only or light/laser combo), or runs 18 hours (laser only), has a user enabled strobe function and a custom optic produces a narrow beam with optimum peripheral illumination. Rated IPX4, i.e. water resistant, it operates at -20°F to +120°F and is made up of durable anodized machined aircraft aluminium construction.



Streamlight launched the the TLR-7 and TLR-8 compact rail mounted tactical lights at SHOT Show 2018. (Photo: Mönch/DPM)