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Rheinmetall's autonomous rescue and surveillance vehicles to be showcased in Canada at CANSEC 2019

Rheinmetall is launching the Rescue model of its Mission Master at CANSEC 2019. The Mission Master is a modular unmanned ground vehicle (UGV) that facilitates recovery of injured troops without compromising the operators' safety, along with many other dangerous, dirty, and dull (DDD) tasks.

The newly released rescue variant of Rheinmetall's flagship autonomous vehicle allows for in-field medical intervention. This gives remotely situated soldiers the ability to evacuate casualties over long distances either autonomously or via remote control.

Rescue model: enhancing casualty care effectiveness

In the field, the right equipment can be the difference between life and death for wounded soldiers, since 90% of fatalities occur between the time of trauma and arrival at the combat zone medical facility.

Rheinmetall's Rescue UGV has all the equipment necessary for a successful evacuation, including two basket stretchers with sliding provisions, head and foot immobilizers, oxygen masks and canisters, a monitor defibrillator, and a hot/cold box. All of these items would be impossible for a medic to carry on foot, but the Mission Master can handle the load with ease.

Operators can command the Mission Master from near or far using autonomous navigation, reducing the number of personnel needed on the ground. This feature leaves medics free to focus all of their attention on the injured soldier, as opposed to wasting precious time driving back to the extraction point. While transporting a wounded soldier using the UGV's stretcher, for example, accompanying medics can use the vehicle as a workstation to administer emergency care.

Using the "follow me" function, the UGV can roll alongside other soldiers, who are busy making sure that the surrounding area is safe and secure. In both "follow me" and autonomous navigation modes, the Mission Master significantly relieves cognitive and physical stress, allowing troops to deal with the mission at hand.

Surveillance that saves lives

The Mission Master – Surveillance is designed to carry out observation and reconnaissance. Rheinmetall's UGV is equipped with long-range EO/IR cameras, a 5-metre telescopic mast, radar, laser rangefinders (LRF), and GPS heading systems for 360-degree surveillance.

As an autonomous vehicle, the Mission Master – Surveillance can minimize the number of troops needed on the ground, while providing timely situational awareness for enhanced security and informed decision-making. Multiple sensors relay real-time data to the integrated Rheinmetall Command and Control Software (RC2S) and Argus soldier system, enabling rapid threat detection during operation in the field.

The UGV can transport much more specialized, high-performance equipment than soldiers can typically carry on their person. As a result, not only does the Mission Master help to significantly reduce the physical load carried by dismounted soldiers, it also enhances the likelihood of mission success.

The integration advantage

Each version of the Mission Master is networked to both the Argus soldier system and RC2S, the Group's command and control software. This type of integration is a Rheinmetall specialty, and will be proudly on display at this year's CANSEC tradeshow.

The rugged, ultra-portable Argus soldier system can control the UGV as well as receive data from its many sensors, delivering mission-critical information straight to soldiers' tactical user interface. It can also send essential reconnaissance and updates to higher echelons of command via the RC2S.

Seeing is believing

Nothing compares to seeing our UGV in person. At this year's CANSEC exhibition, Rheinmetall will be showcasing the Rescue model at its outdoor booth, and the Surveillance version in its indoor booth. Don't miss your chance to speak with our experts about the Mission Master and its many advantages!

For more information, please contact:

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Rheinmetall Mission Master - Rescue



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