

PRESSRELEASE

Berlin | 02.03.2021

CIBORIUS
provides tailor-made
solutions for Security & Service

Our certified company acts as a
security network offering
security, facility and service
solutions throughout
Germany.



Robots start working in security & surveillance

Artificial intelligence has entered the security industry. The Berlin-based CIBORIUS Group is demonstrating what will eventually be the standard: smart robots take over important tasks in security & surveillance services and building inspection.

On 1 June 2021, a new category of employees will be joining CIBORIUS

They are reliable, resilient, are always focused and fully networked. CIBORIUS is Germany's first provider of robot-assisted security solutions and has established an independent subsidiary for this purpose. There, security robots of different manufacturers will be customized to meet the needs of each individual client. These robots can be purchased or leased.

The all-terrain robot Spot®

The centrepiece is the all-terrain quadruped robot Spot® from Boston Dynamics, that has already completed missions in the Chernobyl danger zone and on various oil platforms. IT experts at CIBORIUS have committed themselves to programming Spot® to meet the requirements of modern security services. For this purpose, they use technologies such as

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machine learning and computer-based vision. Computer-based vision is the ability to identify objects in digital images and process this information accordingly.

Recognition of persons and objects

The agile mobile robot has been outfitted with a high-resolution 3600 omnidirectional camera, ultra-bright LED lights and an on-board light detection system (LiDAR) that relies on the reflection of electromagnetic waves to measure and map the space in front of it.

With CIBORIUS's technology, the robot can recognise and distinguish people and objects, perceive changes in its environment and also read instruments precisely. If there is an intruder on the premises or a factory door is left open at the end of a working day, Spot[®] will immediately send real-time images of this situation to the Control Centre. However, it does not just follow a rigid programme, but uses dynamic algorithms to learn autonomously from each new situation. Once the Control Centre gives the all-clear for an object, e.g. when there is a new or additional machine in the production line, the robot will from then on recognise this object and no longer send an alarm.

Increased quality and reliability

The robot can move forwards, backwards and sideways, climb stairs and can even operate in extreme temperatures and weather conditions. "The use of robots considerably increases the quality and reliability of asset and property protection", confirms managing director and company founder Andreas Ciborius. "The robot never gets distracted, can simultaneously process large amounts of information and never gets tired while in action," emphasises Mr. Ciborius, who plans to use his robots successively for many more tasks in the protection and security sector. In addition to the quadruped robot, other robot models are currently being prepared for service. Depending on terrain requirements and customer needs, CIBORIUS will provide the appropriate robot

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technology. Infection control in plants and buildings will be yet another important application.

Man and machine - an integrated team solution

While the robot performs its tasks 100% safely and reliably, a human operator will always remain in control of it. "Each of our robots is not only monitored by the Control Centre, but also has a human companion on site," explains Ciborius. While the robot watches, checks and reports, the human operator takes the ultimate decision and intervenes where appropriate and necessary. This is how modern security and surveillance work is becoming an integrated human-machine team solution.

CIBORIUS Group

With five regional offices, Ciborius Group has Germany-wide operations and offers cross-industry security and service solutions. The company was founded in 2006 by Andreas Ciborius and provides services to high-profile private and public sector clients and municipal enterprises.

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