

# Modern and integrated: Security at Hamburg Stadium.

Solutions by Axis and digivod offer helpful support for security personnel and police at the Hamburg Stadium.



**Organization:**

Volksparkstadion

**Location:**

Hamburg, Germany

**Industry segment:**

Stadiums/Venues

**Application:**

Safety and security

**Axis partner:**

digivod, C.D. Büttner  
Sicherheitstechnik GmbH

## Mission

The operators of the Volksparkstadion in Hamburg wanted to update the video surveillance solution and to enhance it with an intuitive operating platform. The goal was to achieve comprehensive surveillance, with 4K cameras providing an overview of critical areas of the stadium. In addition, police officers also need to be able to access the footage – both at the stadium and at the main operations center.

## Solution

Many police officers are familiar with the digivod user interface because the company has already equipped numerous authorities with its system.

The solution's claim to fame lies in its ability to analyze any number of cameras and in its intuitive operation. On the hardware end, the operator of the stadium opted, among other things, for Axis cameras, which are able to deliver high-resolution 4K images while simultaneously surviving rugged use.

## Result

The Axis cameras are aimed at the critical security areas such as the spectator stands and deliver images to the police officers who have access to the stadium via the digivod platform.

**“The modernization of the video surveillance system of the Hamburg Volksparkstadion involved numerous requirements. The Axis cameras provide the optimum enhancement to the security concept. Together, we were able to create a system that was so intuitive to use that the stadium operator and the police are equally satisfied.”**

**Frank Reusch of C.D. Büttner Sicherheitstechnik GmbH in Hamburg.**

The Volksparkstadion in Hamburg is the home arena of the German professional football league team Hamburg Sport-Verein, with a capacity of 57,000 spectators. In addition to football games, it also hosts concerts and other events.

A basic analog video surveillance was already in place, but this had to be expanded and partially replaced by IP cameras. In addition, the stadium needed a modern, easy-to-use software platform that security personnel could use to manage the video images. These include multi-camera view, zooming, and alarm workflows. It was critical that this software be intuitive to use.

The central requirement for the solution was not only that it permit existing hardware to be used on the platform, but also that it be usable even without employee training. The new cameras had to provide a better display and clearer details. In addition to security for events, there was also a need for building security.

During events, the police must also have access to the video footage – specifically the police officers on site at the stadium.

### **Ideal interaction: reliable and intuitive**

To set up the system, the stadium operator hired the company C.D. Büttner Sicherheitstechnik in Hamburg, a partner of the software company digivod, which it had already brought on board in the planning phase. The main reason for this was that digivod had already equipped numerous authorities with its software. The requirements for the cameras were that they provide 4K image quality, high refresh rates, network connectivity, customary compression rates, and a high degree of ruggedness.

Cameras from the Swedish manufacturer Axis satisfied all of the above-mentioned requirements and they were thus the ideal choice for the stadium operator's enhancement project.

The digivod software manages approx. 80 cameras, seven of which are newly added Axis 4K cameras. All of the cameras provide security for events such as football games and concerts and are simultaneously used for property protection. If no events are taking place on the premises, some cameras monitor the stadium in order to prevent unauthorized entry or to track down graffiti vandals.

A special failover function enables an uninterrupted display of live situations, even if a recorder should fail. The installation of the platform and the Axis cameras began in March 2015. The software can output the video footage on various interfaces. This even includes analog footage converted by an encoder. The platform can analyze any number of cameras.

### **Cutting-Edge Security**

During events, the police monitor not only the interior of the stadium, but also the visitor entrances and other areas where the fans linger such as parking lots. After the game, all of the cameras turn back in the direction of the stadium premises in order to comply with privacy guidelines.

Frequently used functions of the software such as multi-camera views, cascading site maps, or the alarm workflow are controlled by drag & drop or activated with a simple mouse click. A time line and a play bar enable intuitive control. The PTZ cameras can be controlled by joystick, DCZ keyboard, virtual joystick, or with just a keyboard and mouse. The 4K cameras are used with full HD and full frame rates. If something happens in the areas under surveillance, the officers can zoom in. During the zooming procedure the images continue to flow smoothly and the resolution stays sharp.

The authorities and the stadium operator are very satisfied with the current solution because they can now identify people in all of the relevant areas. There are now over 80 different cameras in use.

