

## Ultimate megapixel video surveillance in casino.

Axis brings megapixel video advantages for newly-opened casino in Bulgarian resort.



Organization:  
RIU Pravetz Resort  
Hotel Casino

Location:  
Pravetz, Bulgaria

Industry segment:  
Casinos/Gaming

Application:  
Security and  
surveillance

Axis partners:  
Telelink EAD, Solytron  
SD, Milestone Systems

### Mission

The Casino was the final piece of the RIU Pravetz Golf and Spa puzzle. Corporate customers and guests looking for luxury and leisure will be fully satisfied by the facility and the services provided by the hotel. A key-factor for visitor's comfort is security, and when it comes to the thrill of the turning roulette table or blackjack game – security turns into a must.

Real-time video and image recording must contain as much of the details as possible. This was the mandatory requirement from the security officers, and when talking about the casino business – it is more than understandable, as well as redundancy and flexibility.

### Solution

Telelink was involved in the project from the design phase. Based on the customer's requirements, the solution included five different Axis cameras – from VGA up to 3 megapixels. Depending on the very specific application, different cameras oversee different areas.

Megapixel cameras provide the highest level of details for the games in progress, while lower-resolution cameras provide an overview of the non-critical areas of the casino. Milestone XProtect Corporate video management software runs on IBM servers to provide the central monitoring room with live view and reliable recording capabilities.

### Result

The final result is a sophisticated real-time high-resolution IP-video surveillance solution with extremely detailed recording and advanced management. Nothing can stay hidden now! Each move and action can be played back from several different angles and views, if necessary.

"The megapixel solution from Axis ensured outstanding level of details of live and recorded video streams for this very sensible and specific casino application."

Lachezar Todorov, CEO of Teratour Services.

### Requirements beyond the limits

RIU Pravetz Golf & Spa is a luxury hotel in a unique location. The facility offers several restaurants of varying sizes, and features conference halls and many other venues for corporate events and conferences. Therefore, most of the guests are looking for various services and, of course, demanding a high level of security. This is especially applicable for the Casino. This is why the investor decided to step ahead of the current regulations and invest in a future-proof high-resolution IP-based video-surveillance system.

Specific requirements became the basis for the sophisticated IP solution. The cameras had to be used for general surveillance but at the same time focusing on the tables when required. Identification of even the smallest subject was a must. Several tests with various types of equipment took place to show the best performing vendor in this specific environment.

The real-time live view and huge volumes of recordings placed demanding requirements for the network and especially the servers. Not a frame could be lost. Not an object could be unrecognizable.

### Next-generation solution for casinos

Test results and previous experience led the engineering team to the right solution of Axis IP video surveillance and a Milestone video management system. Axis provided various options for the cameras, depending on the floor height, mounting specifics, lighting scenarios and resolution requirements. Based on all those specifics, the design of the system included 5 different camera types:

- > AXIS P3301
- > AXIS 215 PTZ
- > AXIS P3344 (1 megapixel)
- > AXIS P1346 (3 megapixel)
- > AXIS P5534 PTZ (1 megapixel)

Having many megapixel cameras causes network traffic to grow significantly. In order to optimize the traffic and at the same time keep the quality of the image, H.264 compression was widely implemented in the system. This approach also reduced the volume of the archive.

Different types of storage technologies were introduced to meet the requirements of the recording speed and volume. Having 25fps for 3 megapixel and 1 megapixel cameras proved to be a major challenge for Telelink team. Fast and well-organized SAS disks handle the video streams as initial recording destination, and the oldest video is transferred to a long-lasting SATA storage archive. The unified playback in Milestone allows the use of different archive locations, depending on the speed and storage requirements.

### Real-time extreme quality

As a result of the implementation, the customer is now operating a surveillance system with megapixel quality records and real-time live view. Time shall prove the concept in this market segment.



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