

# Surveon Delivers Prominent Solutions for Casino Surveillance in Vietnam

For casinos, security and comprehensive monitoring always play a critical role and its importance can never be neglected. With Surveon's end-to-end solutions, including a series of HDR cameras, 5 megapixel fisheye cameras, enterprise hardware RAID megapixel recorders and Surveon management software, also called as Surveon Control Center (SCC), casino can easily track every event that occurs at any time with improved profitability while being cost-saving.

## Customer

Phoenix Casino, located a short drive from Hanoi city, is one of the only seven licensed casinos in the nation. With its perfect location, Phoenix is expanding its business in the fields of resort and casino accommodation. In order to maintain profitable revenue with secure business environment, Phoenix casino needs to find a trustful and efficient surveillance solution that they could always count on. Its business principles lie in anti-theft, damage-prevention to ensure customer could totally indulge into a comfortable environment, and enjoy the moment they spend in the casino.

## Challenges

Dim light with the crowd result in greater difficulties for the surveillance environment. Plus, with the vast business space for Phoenix casino, it surely needs a robust and overall monitoring system to convey images of high quality with long-period recording. "High quality, stability, suitable application for Casino and low faulty rate are the main concerns for the operation for Phoenix Casino", said the Managing Director who is handling the casino project for the surveillance deployment. To meet all of the demands, Phoenix needs a well-organized surveillance system that gathers the features of wider monitoring ranges, easy-to-maintain centralized management and great after-sales service to ensure stable video-recording, instant transmittance and trace-back results could be achieved with satisfactory effects. Despite of the complicated environment, Surveon provides the surveillance that takes everything under control.

## Solutions

### Surveon Industrial Grade Megapixel Cameras

This project required thorough monitoring toward the whole opening area, including hallway, petitions, entertaining areas as well as all the accesses. Over 50 cameras are deployed in Phoenix Casino, including CAM2311SC Compact Network Camera with good low lux performance and fast shuttle speed to catch images, CAM4321LV indoor Dome Camera with varifocal lens, CAM5330SZ PTZ Indoor Dome Camera for a wide range of view, CAM6351 speed dome with 20x optical zoom lens, and CAM7511 5 Megapixel Fisheye Camera with excellent dewarp functionality that allows each image to be seen without any distortions. All of the PTZ dome, speed dome as well as fisheye cameras share the common feature of panoramic view to avoid any blind angles.



### Summary

Customer:  
Phoenix Casino, Vietnam

#### Project Needs:

- End to end solutions for megapixel recording
- High quality
- Stability and low faulty rate
- Images of high resolution, professionalism and stability

#### Surveon Solutions:

Highly integrated solutions with the following:

- CAM4321LV 2MP Indoor Dome Camera
- CAM2311SC 2MP Low Light Box Full HD& Real Time Network Camera
- CAM7511 5MP Fisheye Camera
- CAM5330SZ 2MP Indoor PTZ Network Camera
- CAM6351 20x zoom Full HD outdoor Speed Dome Camera
- NVR2164 Hardware RAID Megapixel NVR
- Surveon Enterprise VMS with Surveon Control Center (SCC) Management Software

#### Surveon Solution Benefits:

- Easy integration
- 120-day non-stop and zero frame loss recording
- Hardware RAID NVR ensures reliability
- Certified end to end solutions
- Centralized management
- Smart investigation
- Real-time VI detection
- 100% in-house design and production
- 3 year warranty

## Enterprise Hardware RAID Megapixel Recorders

Supporting up to 64-channel Full HD recording, the Surveon NVR2164 with hardware RAID was chosen to provide large capacities up to 448 TB for longer video retention periods, overall system stability and zero video loss. In addition, its hot-swappable, thermal-proven cables and redundant components also meet with industrial grade standard, thus achieve 24/7 non-stop megapixel recording, making it the ideal choice for casino application.

## SCC (Surveon Control Center) Management Software

SCC centralized system with multi-monitor client display offers advanced matrix wall management, unlimited number of cameras, servers and clients, data protection, central alarm status, data missing & reporting functions and RAID storage management. This enables casino to simultaneously have comprehensive view angles with centralized management from every corner.

## Benefits

### High Quality, Application for Casino and Low Faulty Rate

Surveon's CAM7511 fisheye camera leaves nothing behind and is able to monitor the whole casino without any blind spots with 5 megapixel video resolutions, saving the costs for installing unnecessary cameras. The CAM6351 also provides the site with better and wider view angles and coverage. The CAM2311SC Compact Network Camera's great performance in low light condition, WDR, ROI video cropping, 2D/3D noise reduction and edge enhancement meet the demands of this project.

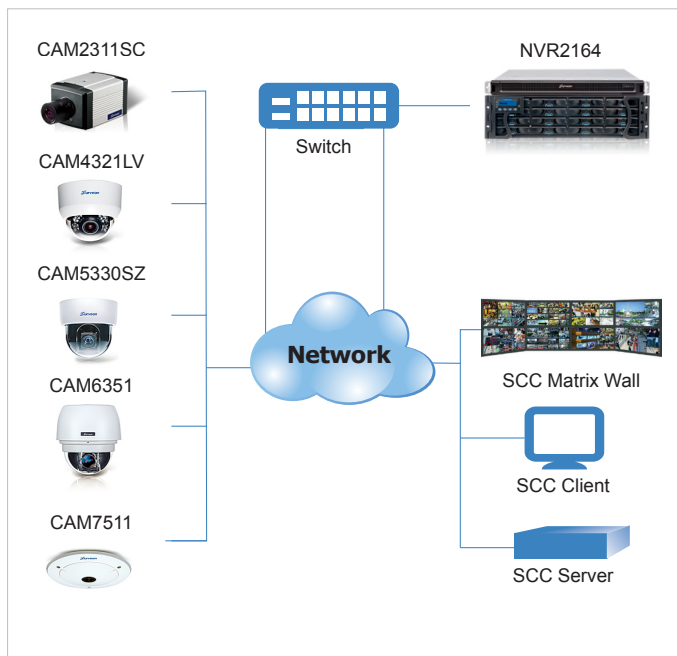


Figure 1: Distributed Architecture for Advanced Applications

The CAM4321LV's varifocal lens is definitely the ideal choice for professional surveillance in the indoor applications, while CAM5330SZ's PTZ autofocus lens design serves as the great role for monitoring in dynamic indoor applications. With all of the above deployments, the whole casino could be monitored effectively without any blind spots.

## Organized and Centralized Video Management

The Surveon's NVR2164 ensures continuous recording with stability and reliability with its built-in premium-grade RAID subsystem storage. Paired with Surveon Enterprise VMS with SCC (Surveon Control Center) management software, the advanced matrix wall management enables casino to monitor every image without negligence. With its RAID storage management, the data could also be protected and retained safely.

"Finding a reliable surveillance partner is always the goal we are aiming for. We are glad that Surveon offers such a comprehensive product line-up to fulfill our needs at once! The performance and image quality have enhanced our efficiency conducting surveillance tasks. The running applications are reliable and quite satisfying." said the Managing Director for the surveillance deployment in the casino.

### About Surveon

Surveon Technology offers end-to-end network video surveillance solutions that showcase our expertise in professional camera design, RAID NVR, high availability video storage, embedded firmware and video management software. All Surveon products are designed in-house and manufactured on our ISO 9001 and ISO 14001 certified production site to ensure the highest quality for our partners.