

VIGILANT'S FOCUSED VISION

for Correctional Facilities

Meeting the challenges of Video Surveillance in Prisons and Correctional facilities – the Vigilant vision

As their title implies, highly-secure correctional facilities face stringent requirements when it comes to security. The high-level objective of providing secure surroundings for both inmates and prison officers, translates into a series of unique conditions and attributes that make a prison one of the most challenging environments when it comes to video surveillance. In this paper we will try to review some of them, and understand how the Vigilant Video Surveillance solution addresses and resolves them.

Security challenges in correctional facilities

When deploying a video surveillance solution in a prison or a correctional facility, one needs to understand the unique security-related attributes that are common in this environment.

- **Few vs. many** – most prisons are facing the basic dilemma; how do you ensure the safety and on-going operation of a facility run by a group of officers controlling inmates population that is, in many cases, several times their number? Security and surveillance solution should help offset this imbalance.
- **24x7x365** – there is no 'off duty' periods in prisons surveillance. The facility should be monitored and guarded at any time, without breaks. Surveillance solutions need to be highly reliable to enable it.
- **The Devil is in the details** – in the highly crowded prison facility, one needs to be able to detect the smallest events; a potentially dangerous item changing hands, or a gathering of inmates becoming unfriendly. Video quality in terms of image resolution and frame rate is of vital importance, both for live viewing and playback.
- **Listen, not just watch** – a true understanding of complex situations such as those common in prisons, requires the officer not only to have a high quality video image, but also to be able to hear the audio soundtrack. High level of 'lip synch' is required – it is often what enables the correct interpretation of the event.
- **Modular facility layout** – prisons are usually divided into several different areas; inmates cells, dining rooms, recreational areas, medical site and others, each with its own security requirements. The surveillance solution architecture should be distributed, flexible and scalable enough to accommodate it.
- **Preventive detection** – the best way to resolve prisons conflicts is to avoid them altogether. The surveillance solution is required to help the prison officer detect 'fragile' situations before they escalate into a full blown incident. In addition to many features already mentioned, video content analysis tools should be used to help achieve this goal.
- **Accurate interrogation** – still, not all events can be avoided, and once there was one, the surveillance system should enable an accurate post-event interrogation and resolution. Features such as efficient storage, multi-camera synchronized playback, immediate alarm-based playback, and court-qualified evidence export are critical to fulfill this task.
- **Ease-of-use/Ease-of-train** – last but not least, any surveillance solution, as powerful as it may be, is just as good as what its operator can use. One of the strongest requirements from the surveillance solution is operational simplicity, including short training periods for new users.

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Securing correctional facilities with the Vigilant solution

Vigilant™ Technology is a leading provider of intelligent IP based digital video surveillance solutions. Boasting on an installed base of hundreds of thousands of high-end channels worldwide, coupled with a network-distributed modular architecture, Vigilant provides its customers the peace of mind required to achieve their organizational objectives. To offer a complete solution to the surveillance requirements of any highly-secure prison or correctional facility, Vigilant's portfolio includes the following modules:

- **Vigilant Elite™ / Xstream™ Series** - A purpose-designed scalable DVR solution for users in high security and surveillance environments, who need robust, cost effective image viewing and recording at 4CIF, real-time with unparalleled storage efficiency.
- **Vigilant NetVR™** - An end-to-end scalable network video recording (NVR) solution designed for flexible, open, efficient and remote-access event detection, video storage, advanced queries and management of any delivered video over the network. The Vigilant NetVR completes the Vigilant Elite/Xstream series into a comprehensive, end-to-end recording solution answering the prison needs with the required image quality, frame-rate, and storage size for any deployment architecture.
- **Vigilant NetStream™ Series** - A high resolution full frame MPEG-4 IP video encoders which comply with today's high-performance CCTV standards in a full networking (LAN & WAN) environment. This modular encoders series help resolves the facility layout requirement by having density per site.
- **Vigilant NetView™** - Vigilant's state-of-the-art, IP based, fully digital video management system that provides powerful matrix and real-time event handling capabilities. The NetView enable the prison officer to stay fully tuned to the prison surroundings and manage any evolving event.
- **Vigilant ViewStation™** - An intuitive, easy-to-operate event analysis application for querying, investigating and extracting video information from any Vigilant server to any point in the network. The ViewStation solution provides the prison officer with all the capabilities required to interrogate and understand any occurrence between the prison walls.
- **Vigilant SmartGuard™** - an intelligent Video Content Analysis solution that detects and classifies video content – providing immediate alerts and detailed analysis of scenarios and situations. The SmartGuard benefits in the prison environment include strong perimeter defense around the prison walls, detection of inmate entering prohibited areas or counting inmate in specific locations.
- **Vigilant RemoteViewer™** - An 'over the WAN' remote video application that provides key personnel the ability to stay in control wherever they are. Watch real-time or recorded video and investigate incidents immediately as they occur at anytime and anywhere over the network.
- **Vigilant NetView Command™** - A management control station offers the latest in touch screen Graphical User Interface (GUI), high resolution 2D graphics of the site plans and easily controls the Vigilant NetView and any other analog matrix simultaneously.

Based on its unique knowhow, originated from many thousands of channels deployed world-wide, Vigilant surveillance solution provides a complete solution for the correctional facility environment. Once deployed, prison officer can achieve their objective and perform their tasks in a secure environment.

About Vigilant

Vigilant Technology is a global leading provider of intelligent IP surveillance and security solutions. The company offers a turn key solution including video servers, DVR/NVRs, intelligent real-time video content analysis and sophisticated, proactive control center solutions. Vigilant has a worldwide customer base and is globally supporting tens of thousands of cameras in airports, governmental sites, financial institutions, correctional facilities, casinos, city centers, and more.

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