

# Healthcare Use Cases



# Securing Today's Healthcare Facilities With AI-Powered Video Analytics

For security practitioners in healthcare facilities, few things are more important than protecting their patients, personnel and key assets. Beyond a strong desire to create a campus environment that promotes an overall sense of security and wellbeing, security professionals need to ensure patient safety at all times. By creating a positive working environment for their doctors and staff and adhering to state and federal regulations regarding access to certain assets and secure facilities, a security manager's role is paramount to the overall success of the facility.

Vintra delivers AI-powered video analytics solutions that transform any real-world video into actionable, tailored and trusted intelligence. Its enterprise-grade software solution makes existing security cameras – whether fixed or mobile – smarter and improves how organizations and governments automatically monitor and search video for critical security and safety events.

How can you use our Vintra solution in your healthcare facility? Here are some use cases below:

## **Patient and Personnel Safety**

A high-volume, high-stress environment such as a healthcare facility can create volatile situations. The federal government has reported that hospital workers are four times as likely to be assaulted on the job as compared to those in other private-sector jobs. This high-stress environment, concentration of diverse population groups and abundance of high-value assets create special challenges for the security professionals charged with providing a safe and secure environment for the property owner, employees and others.

With the ability to search real-time or pre-recorded video, the Vintra solution can quickly find a particular person of interest (POI), determine their path throughout the facility and pinpoint their current location, providing security staff with the information they need to keep an incident from turning into a threat.

## **Drug Access and Chain of Custody**

Pharmacies are another area in a hospital that require a high degree of security and accountability. Stocked with many valuable and life-saving drugs with high street values, pharmacies and their inventory can be a target of theft and manipulation. The pharmacy needs to balance flexibility and easy access with strict control of who is permitted access to the pharmacy and its contents.

The Vintra solution can help monitor and alert on access to these highly secure areas, ensuring that only authorized hospital staff have the necessary access.

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## Active Threat

An unfortunate reality in the healthcare sector is that of an active threat situation, be it a shooting incident on campus, an active shooter or another real-time threat to human safety. Security practitioners are at the forefront of these challenges and need to have a system and protocols in place that not only can protect their patients and staff, but swiftly analyze, alert and respond to these situations in the best way possible.

The Vintra solution, with its ability to re-ID an individual across all of your cameras, can quickly paint a picture of the individual's journey throughout your campus and uncover the current location of this active threat.

## Lost Patients

For those facilities that care for patients with mental illness, Alzheimer's disease or other cognitive conditions, the ability to ensure that all patients are safe in designated areas and easily located. For many healthcare facilities, a simple RFID wristband is not enough.

Vintra's AI-powered video analytics can help monitor patient movement, both within the facility and beyond. If, for example, a patient wanders outside of a building, our software that is already monitoring that key access point can alert on this transgression, comparing a facial recognition capture with the patient database to confirm identity. This, along with understanding that patient's path throughout the facility, can quickly help security personnel diagnose, respond and recover lost patients.

## Workplace Violence

Workplace violence is a recognized hazard in the healthcare industry and ranges from threats and verbal abuse to physical assaults and even homicide. In 2010, the Bureau of Labor Statistics (BLS) data reported healthcare and social assistance workers were the victims of approximately 11,370 assaults by persons; a greater than 13% increase over the number of such assaults reported in 2009. Almost 19% (i.e., 2,130) of these assaults occurred in nursing and residential care facilities alone.

Because many of these issues often stem from individuals with a history of violent behavior and can also often be traced to disgruntled ex-employee, security practitioners need to be on high alert for persons of interest.

With the Vintra solution, users can upload headshots of persons of interest and create alerts on that image, creating the ability to know if that individual is on campus before he or she enters the building.

## Protecting Valuable Resources

In every hospital, there are machines, pumps and other pieces of life-saving equipment that need to be carefully monitored and protected to ensure availability when needed. In many hospitals, these machines are stored in a centrally located, secure facility with access granted to select individuals.

Vintra solution allows healthcare security practitioners to protect valuable resources by setting up intrusion zones and generate an alert when medical resources such as Personal Protective Equipment (PPE) are being accessed.

## Person Down

Falls are a common and devastating complication of hospital care, particularly in elderly patients. Epidemiologic studies have found that falls occur at a rate of 3–5 per 1000 bed-days, and the Agency for Healthcare Research and Quality estimates that 700,000 to 1 million hospitalized patients fall each year. Patients in long-term care facilities are also at very high risk of falls. Approximately half of the 1.6 million nursing home residents in the United States fall each year, and a 2014 report by the Office of the Inspector General found that nearly 10% of adverse events experienced by Medicare skilled nursing facility residents were falls resulting in significant injury.

Vintra's AI-powered video analytics, with its class-leading technology, can quickly identify and alert on a person-down situation, notifying key personnel of the issue to help ensure that a potential life-saving response is quickly enacted.

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## Protecting Patient Information

A host of state and federal laws and regulations now require careful protection of private patient information. Data centers and record rooms should be treated much like a pharmacy – with limited entries, access control and cameras mounted to see who comes and goes. There are numerous regulatory and technology initiatives to convert hard copy patient information to data, making the convergence of physical and logical (data and network) security not only desirable, but a necessity.

Vintra's AI-powered video analytics can help you manage issues of unwanted access, ingress/egress and tailgating regarding these data centers and record rooms. For even greater security, Vintra's AI-powered video analytics can integrate with access control systems and compare these two valuable sets of data and provide additional details about these potential transgressions.

## Spent Waste

Medical waste, from used needles to contaminated items to other potentially infectious materials, represent a serious security risk for healthcare facilities -- and their care for and disposal of is monitored by state environmental and health departments. In adhering to these mandates, security practitioners need to ensure that the chain of custody is well-monitored and be able to report out on any abnormalities in the process of waste disposal.

The Vintra solution, with its ability to recognize faces and bodies, can easily track the chain of custody related to medical waste and send an alert if any handling, transporting or other misuse issues arise.