GENIUS VISION DIGITAL

CaseStudy



ORGANISATION
KIMS HEALTH

LOCATION
KERALA

INDUSTRY
HEALTHCARE

APPLICATION
GVD TURNKEY VIDEO MANAGEMENT SOLUTION

KIMS Health-Kerala

THE BACKGROUND

Kerala Institute of Medical Sciences is one of the Asia's Leading multi-speciality hospital networks focused on providing quality healthcare services to patients through competent medical team and sophisticated technology.

Established in 2002 in Trivandrum with a single facility, they have expanded and reached various regions with 22+ Hospitals and Medical Centres.

KIMS Trivandrum has Main and North Block building as existing set-up, into the recent expansion towards constructing the East Block building. Genius Vision Digital has played a vital role in designing the IP video surveillance solution and offering our VMS platform to central access of entire KIMS Trivandrum Hospital.

CHALLENGES

- Restricting accessibility to private areas.
- Deterring tampering of records, or misuse/ theft of hospital supplies/ resources.
- Monitoring staff and visitor behavior.
- Tracking footfalls.
- Delay in Investigation of Critical Event
- Existing solution having issue with scalability of the HW & video storage which increasing HW failure risk.

KIMSHEALTH™

22+ Hospitals & Medical Centres

900+ Doctors

2000+ Nurses

4+ Location in India



1800+ Beds

Additional Needs:

- A strong reliable system, with Open architecture for Integration of existing cameras.
- Good processors with high storage capacity for future scalability.
- VMS platform considering scalability and central operations from the command centre.

CHALLENGES

KIMS Healthcare with its growing operations in Healthcare services has been facing challenges regarding maintenance of legacy Surveillance systems and could also not be scaled to meet the growing requirements.

Hospitals and Patient care being an ultra-sensitive environment calls for lowest margins of error for its patients. In case of an emergency or unprecedented event KIMS must rely on the stored video footage. It was increasingly becoming difficult to manage video storage as they were using multiple sources for data transfer. This further lead to data being stored at different locations occasionally leading to video loss, data corruption and unavailability at the time of investigation.

Adding to further complexity there are expensive medicines and equipment which should be stored safely and incidents of burglary needed to be avoided. There were also a few blind spots where there was no surveillance coverage.

A further growth in KIMS operations required new generation features such as Automatic Number Plate Recognition for, flexible access control capabilities and reduction in operational costs with a host of further video analytics features which were not possible with the legacy systems.

In a nutshell KIMS wanted a centrally monitored video management solution which is open platform and works across various camera brands, has months of video storage capabilities, intelligent video analytics and is reliable for Zero video loss and has minimalistic hardware failure.

SOLUTION

KIMS gets a Turnkey Video Management Hardware and Software solution that brings all their Surveillance in a Central Location and with standardization and advanced technology helps them build a scalable and reliable system

Turnkey Solution and Enterprise Class Storage

The KIMS team is monomaniacally focused about security of their staff and patients. That's why having GVD turnkey Video Management solution which is an optimized combination of hardware and software helped them with ready evidence investigation at their fingertips and addressing a host of other challenges.

Mr. Sunil Kumar (Head-IT) from KIMS said

"We have multiple brands of surveillance equipment. This would simply waste hours searching for the right video footage in case we wanted to investigate any event. There were also challenges in managing multiple brands of hardware and software. No one would take clear ownership if there were issues happening and servicing the equipment was a big concern. The other side was training of our operators to operate multiple brands. All of this was adding to total cost of operations."

With GVD's all in one Turnkey Network Video Recorder M6 Series and Video Management Solution E4200, multiple stakeholders get access to video security footage anytime from anywhere. It is just so easy to interact with one company for both hardware and software – there is no trouble as it used to happen before GVD with multiple brands as we would lose a lot of operational efficiency and time with no one taking complete responsibility.

I am glad to share we now have 100% video recording retrieval rates over the last two years and there haven't been any issues in storing and retrieving massive amount of archived data.
The storage has increased from previous 45 days to 90 days, and it can be scaled up with the new recorders capable of having on board storage capability of up to 6 months. This has been possible due to higher levels of inbuilt hot swappable storage capacity in GVD Enterprise NVR's and simple expansion through DAS (Direct attached Storage) boxes.

We are so relieved to having not taking any back ups in multiple external disks, transferring, and archiving complexities we used to have earlier.

Building Future Resilience and Scalability

As KIMS continues to expand its operations beyond 22 cities where they are providing quality healthcare, they plan to phase out all old technologies and work towards a unified command and control with centralized monitoring of all facilities in one place.
This will help the organization achieve never before levels of efficiencies in managing operations and reducing several costs and minimizing human error.

GVD's all in one VMS has the capability of handling up to 100,000 cameras and the architecture simply allows to start small with periodic upgrades as and when required. It works like a simple "PAY AS YOU GO" model. This has been hugely appreciated by KIMS management as with minimum investments they get Enterprise security and flexibility.

KIMS have also been wanting to work on improving operational efficiency and intelligence by using functions such as ANPR(Automatic Number Plate Recognition) and Video Analytics such as Human Intrusion Detection, Loitering, People counter which can now become a reality with GVD's advanced Artificial Intelligence Engine. Upgradation to all these functions is a cakewalk as

many of these functions are a standard part of the hardware offering thereby saving money and many custom scenarios can be trained in the AI Platform to give them accuracies of beyond 95% in such scenarios.

Familiarity – Ease of Use

The backbone architecture of GVD's Enterprise Turnkey solution for Video Management is Windows 10 IoT which is a super easy to use familiar interface with organized tiles and tabs for each and every function in the system.

D4200, Operator Workstations and Videowall Unit makes it easy to use and operate when it comes to daily usage from multiple stakeholders such as operator, supervisor, other security and operations stakeholders.

Security functions such as building an investigation case with multiple alarm videos, screenshots, GIS location, notes get consolidated in a single pdf document with hyperlinks can be sent to any investigation authority within minutes, unlike previous times when KIMS security team had to take local access of the recorders in various sites and scan hours of footage to get the real incident.

Mr. Kumar from KIMS said
We have 400 cameras and soon will be bringing another 600 cameras on GVD's Video management solution. It is easy to now create various groups of cameras in a building and multiple locations, so is to search for any camera or view with advanced Device Management Function. We want to keep a continuous monitoring of labs, pharmacy store and entrances from all the sites. The Device Management helps us create a specific group of these and the multi-site view of these regions is just a click away.

Trusted Support and Post Sales Service

GVD Team have been instrumental and proactive in handholding the System Integration Team and KIMS with complete designing of the solution, optimizing KIMS expenditure and building a retrofit solution to match their needs.
GVD Team has also value added in terms of building an open architecture future upgrade solution as the recorders work with 90+ leading camera manufacturing brands.
No Cost Systemic Upgrades and Industry leading cost effective AMC's have also been a part of the overall proposal with Enterprise Support, KIMS and System Integration team training thereby equipping them to independently work on the upkeep of the system.

"With experience its crystal clear that it was worth every penny spent going for a standardized turnkey platform from GVD.
This not only solved our previous security and operations concerns but has now better equipped us to handle any emergencies and building intelligence without any hassles on maintenance of growing numbers of systems across the globe on top of it said "Mr. Kumar"

Please visit www.geniusvision.in to learn more

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