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sur

the missing piece of CCTV

THE FOOTAGE WHISPERER

"SEE WHAT THE CAMERA SAW"

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GAUTAM D. GORADIA



UTILITY VALUE OF
COM-SUR™ FOR
THE RETAIL SECTOR

WELCOME



AUDIT HOURS OF FOOTAGE IN MINUTES
FIND OUT HOW COM-SUR, THE BEST
'MOUSETRAP' WILL HELP

["Seeing is believing - See what the camera saw"](#)

CCTV surveillance is common in the retail sector, but footage is often only reviewed reactively. Our company realized this problem early-on and has developed the world's only CCTV video footage auditing software that encourages daily auditing (hours in minutes) of CCTV footage, filling the gap for a complete "workflow". The software works with existing cameras and VMS, regardless of type/brand, and provides a standardized approach for intelligent incident reporting. Our software also offers exceptional investigative capabilities.

'COM-SUR' – THE WORLD'S ONLY CCTV VIDEO
FOOTAGE AUDITING, SMART BACKUP, AND
STANDARDIZED INTELLIGENT INCIDENT
REPORTING SOFTWARE – THE MISSING PIECE
OF CCTV

COM-SUR is the world's only CCTV video footage auditing, smart backup, and standardized intelligent incident reporting software that serves as a complete workflow and force multiplier. It helps audit 24 hours of footage in minutes, reduces data size, creates standardized intelligent reports, and delivers business intelligence. COM-SUR helps unlock hidden information in CCTV footage and enables people to gain actionable intelligence, improve homeland security, prevent crime and losses, identify and mitigate threats and hazards, and improve operational efficiency. It empowers people to gain new jobs as CCTV video footage auditors and start new businesses of auditing video footage. Like MS Office, COM-SUR is an enabler that makes it easy to work with CCTV cameras in a standardized way, leading to better decision-making. It also offers exceptional investigative capabilities.

HOW COM-SUR SMARTLY REDUCES 'VIDEO'
STORAGE SIZE

COM-SUR employs an innovative approach to

smartly reduce the amount of video to be audited and consequently the storage size of videos. Regardless of the video's frame rate, COM-SUR captures a single screenshot of the consolidated 'moment' of 'that' one second, when the I, P, and B frames come together. This method significantly reduces data size without sacrificing vital information. It goes without saying that when multiple cameras are displayed in a grid view, say 4x4, the storage size is further reduced since all the cameras are captured as a single image. Since no suggestion is being made to replace the actual video with screenshots, COM-SUR acts as a wonderful supportive technology both to audit (review) just 86400 frames representing 24 hours and reducing the data size at the same time.

RETAIL SECTOR CHALLENGES

1. Customer service issues:

Friendly and helpful customer service is crucial in creating a positive experience. Retail establishments need to ensure that their staff provides excellent customer service, assist customers with their inquiries, and address any concerns or issues promptly. Further, retail establishments also need to ensure regular cleaning, proper sanitation, and prompt maintenance of facilities, restrooms, and common areas to create a pleasant and inviting atmosphere for shoppers.

2. Shrinkage and thefts:

Retail establishments constantly have to face the prospects of shrinkage and thefts which can be of various kinds such as taking cash from the register, too many invalid or voided transactions, shoplifting, or product slipping through the entrances or exits. Also, there is the possibility of theft occurring after business hours when no one is present.

3. Robbery and burglary:

The presence of cash registers, ATMs, and jewelry stores in retail establishments makes them susceptible to robberies and burglaries.

4. Crowd control issues:

Retail establishments can become overcrowded, particularly during busy shopping periods or during events, and this can create safety hazards for shoppers and employees. Further, there are concerns about children being vulnerable to kidnapping.

5. Vandalism and property damage:

Retail establishments may experience acts of vandalism, such as graffiti, defacement of property, or destruction of public facilities. These incidents not only result in financial losses but can also create an environment of disorder and impact the overall aesthetic appeal of the retail establishment.

6. Terrorism:

Retail establishments like malls and large shopping centers are susceptible to terrorism due to their symbolic value, high footfall, relative vulnerability, and potential economic impact. These factors make them attractive targets for terrorists seeking to cause mass casualties, generate fear, and disrupt society.

7. Public disturbances and disorderly conduct:

Retail establishments can experience incidents of public disturbances, unruly behavior, or disputes among visitors.

8. Safety hazards:

Retail establishments may have a variety of safety hazards, such as wet floors,

broken escalators, or uneven pavement.

9. Fire safety:

Retail establishments are susceptible to fire incidents due to the presence of multiple stores, electrical equipment, and high human traffic.

10. Parking lot security:

Parking lots are common areas for criminal activities, including vehicle theft, break-ins, and personal assaults.

11. Insider threats:

Retail establishments have to deal with insider threats from disgruntled employees or even unwitting staff who fail to follow proper security and safety measures.

12. Humongous growth of surveillance video:

The exponential growth of surveillance cameras has resulted in an unprecedented surge in surveillance video. Effectively managing this data has become a daunting challenge due to the massive storage capacity required, especially considering the prolonged retention periods necessary for security, incident investigation, or legal purposes. Furthermore, the prevalence of high-resolution video with increasing megapixels compounds the storage demands, making efficient data management an urgent priority for organizations grappling with the immense volume of surveillance footage.

COVID-19 PANDEMIC

The pandemic severely impacted the retail sector worldwide. Government restrictions/lockdowns led to a huge slowdown in the retail

business. Retailers of essential items continued their operations while retailers of items deemed non-essential such as luxury items, home appliances, had to temporarily shut operations, leading to huge losses. Several retailers had to move their store operations online. Also, there was a spurt in crimes and aggressive customer behaviour such as panic-buying. Guidelines were issued to prevent the spread of COVID-19, but outbreaks still occurred.

USE OF VIDEO SURVEILLANCE AT RETAIL ESTABLISHMENTS

Most retail establishments have video surveillance covering the following areas:

- Entry and exit points
- Sales floor
- Individual aisles for specific category of goods
- Point of sale areas
- Storage rooms and supply areas
- Common areas, such as food courts and play areas (applicable in case of malls and large shopping centers)
- Parking areas
- Other areas deemed important

Retail establishments generally need to review and analyze recorded CCTV video footage from time to time in order to track possible offenders as well as reconstruct the chain of events that lead to a particular incident/accident/customer dispute. In some cases, the recorded CCTV video footage is also used for the purposes of training /onboarding employees on the in-store

behavior of customers.

REMOTE VIDEO AUDITING

Retail establishments have begun to deploy third-party services of Remote Video Auditing (RVA) primarily for monitoring employee, customer, and supplier activities that impact customer satisfaction, operating efficiency, and profitability. This entails placement of cameras at relevant areas of the retail establishment's premises. Third-party video auditors go through recorded video feeds, looking for key performance indicators (KPIs), and accordingly report their audit findings to the management of the retail establishment for corrective and preventive action. It has been found that such video-based operational audits have helped many retail establishments increase return on investment (ROI) and boost sales, revenues, and profit by finding theft and fraud they didn't know existed/went unreported.

BODY WORN CAMERAS

In the wake of recent reported incidents of violence, abuse, and customer disputes, several retail establishments have equipped their staff with body worn cameras to record such happenings and bring them to the notice of the concerned authorities.

LIVE MONITORING – CHALLENGES

Several retail establishments have a dedicated control room with operators, set up for live monitoring of CCTV cameras. However, live monitoring comes with its own set of challenges of video blindness, poor attention span, boredom, operator bias, false alerts, and so on.

Moreover, these cameras continuously capture and record humungous amounts of video data. It therefore becomes a daunting task for the

operators to review and analyse this data whenever the need arises. Thus, it may be noted that benefits from video surveillance systems can accrue only when they are used optimally, suggestions for which are enumerated further on, in this document.

COMPLIANCE - GENERAL

Conformity or compliance in any organization means adherence to laws and/or rules and regulations, various standards, as well as data storage and security requirements as laid down by government bodies, governing bodies of the respective industry, or the management of the organization. When an organization complies with the requirements mandated by government and/or governing bodies, then it is termed as 'regulatory compliance' which enables the organization to run in a legal and safe manner.

COMPLIANCE - AUDITS

Several organizations carry out compliance audits on a regular basis to avoid the potential consequences of non-compliance. A compliance audit examines how well an organization adheres to compliance requirements. Some organizations use video surveillance to monitor compliance issues and audit recorded CCTV video footage from time to time for investigating and preventing compliance issues. Auditing CCTV provides actionable insights on the level of compliance within the organization.

AUTOMATED SOFTWARE – WHY THEY WILL NOT WORK IN ISOLATION

In the wake of the Christchurch shooting incident, several high-profile places of worship

considered deploying gun detection technology. However, there are concerns about its efficacy, since it may not be able to detect all types of weapons, or the perpetrator could still create damage before being detected.

Similarly, automated systems like video analytics, AI/ML can only detect what they have been programmed for. What about the rest? Again, these technologies are prone to triggering huge amounts of false alarms.

Also, since the permutation combinations of exceptions can be vast and varied, it becomes almost impossible to automate every kind of exception. Facial recognition technology also raises ethical and privacy concerns, and has been found to produce inaccurate results, especially for certain ethnic groups.

Therefore, experts suggest that while automated technologies will continue to grow, human intervention and intelligence will still be necessary to verify alerts and ensure their efficacy.

“CCTV IS NOT ENOUGH – WE MAKE IT WORK FOR YOU”

While it is not being suggested that optimal usage of video surveillance can cure all issues, several issues of the following kind can be addressed by doing just a little 'more' with respect to making the optimal use of video surveillance systems:

- Customer service issues
- Recces/suspicious movements /activities/shoplifting attempts
- Overcrowding
- Insider job/security lapses
- Unauthorized/unlawful activities/visitors
- Violence and vandalism
- Kidnapping/kidnapping attempts
- Customers wearing suspicious/seasonally inappropriate clothing, for example heavy coats to conceal items
- Sweet hearting (employees giving away merchandise to a 'sweetheart' customer (such as a friend, family member or fellow employee) without invoicing the same
- Accidents/Causes of potential accidents
- Potential causes of fire
- Housekeeping issues
- Fraud/loss/corruption/theft
- Unclaimed/unattended baggage/objects
- Human rights violations
- Staff negligence
- Inattentive staff (e.g. guard sleeping)
- Unruly customers/staff
- Issues with female staff or customers
- Compliance issues
- Health and safety issues

- Customer behavior/shopping preferences
- Cameras/recorder malfunctions

So, what is the 'more' that needs to be done?

1) AUDIT CCTV VIDEO FOOTAGE DAILY AS A STANDARD OPERATING PROCEDURE

'Auditing' means 'seeing' what the cameras 'saw'. Auditing of CCTV footage should be done daily (continuous investigation) to identify potential issues and threats. Auditing is a dedicated and systematic process that helps address challenges related to live monitoring and alert-based systems. Auditing helps in evaluating analyzing incidents to improve existing policies, procedures, and processes. Concerned personnel should be trained to become CCTV video footage auditors, and the audit teams should be rotated to avoid complacency/collusion. Daily auditing of CCTV footage can also help in adhering to the principles of Kaizen and TQM for business improvement.

2) DOCUMENT AUDIT FINDINGS/INCIDENTS

Audit findings/incidents should be documented in a standardized template to find the root cause to prevent future recurrences. Historical data of such findings/incidents can reveal patterns that can help take better informed corrective and preventive action. If the entire industry reports incidents in a standardized template, relevant authorities can derive business intelligence from the data and take action for the collective benefit of the retail sector.

3) ENSURE DISASTER RECOVERY OF CCTV VIDEO FOOTAGE – LIKE A 'BLACKBOX'

CCTV video footage must be stored at multiple locations in order to ensure that even if the recorder is stolen, destroyed or tampered with the data is never lost. Further, any backed-up data must easily be searchable and retrievable; else, it is going to be a nightmare finding the relevant video.

4) DISPLAY DYNAMIC INFORMATION AT RELEVANT PLACES

Document and display details of information that is dynamic in nature in relevant areas. For example:

1. List of officials on duty (who can be contacted in case of any emergency/grievance).
2. List of authorized security personnel deployed at the retail establishment.
3. List of habitual offenders/suspects likely to visit the retail establishment's premises (a 'Watch out' list).

5) USE A POWERFUL NEW SIGNAGE

"WE AUDIT CCTV VIDEO FOOTAGE EVERYDAY"

One size, one color, one powerful message. Across the nation.

DE-CENTRALIZED SURVEILLANCE + CENTRALIZED SURVEILLANCE = OPTIMAL RESULTS

Organizations with multiple locations struggle with centralized video surveillance due to

infrastructure cost, internet bandwidth, and operator limitations. De-centralized surveillance offers higher accountability at each location and better situational awareness, leading to more chances of discovering exceptions.

CONCLUSION

“You see, but you do not observe” is a quote by Sherlock Holmes in A Scandal in Bohemia (1891, written by Sir Arthur Conan Doyle). COM-SUR makes 'observation' far effortless and effectual leading to superior results.

"Cameras don't lie" - but how will you know unless you 'see' what the cameras 'saw'?
Audit CCTV - why suffer!

Get award-winning COM-SUR now. Don't wait for things to go wrong!

Finally, allow us to present three important mantras that change the landscape of video surveillance:

- 1. Auditing is fundamental – everything else is peripheral.**
- 2. Cameras have lenses – humans have eyes.**
- 3. Let's make cameras 'accountable'.**