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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  
PARKING LOTS

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 parking lots world over, 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 image 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 images, 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.

#### CHALLENGES FACED BY PARKING LOTS

##### 1. Unauthorized access and trespassing:

Parking lots can be prone to unauthorized access and trespassing, with individuals entering restricted areas or attempting to gain entry to vehicles unlawfully.

##### 2. Theft and vehicle break-ins:

Parking lots are vulnerable to theft and vehicle break-ins. Criminals may target unattended vehicles, stealing valuable items or causing damage.

##### 3. Vandalism and property damage:

Parking lots can be susceptible to vandalism, including graffiti, intentional vehicle damage, or destruction of property. The open nature of parking lots and limited surveillance may provide opportunities for individuals to engage in such acts.

##### 4. Assaults and personal safety:

Inadequate lighting, isolated or poorly

monitored areas, and insufficient security measures can make parking lots a target for assaults and personal safety incidents. Individuals may become victims of robberies, physical assaults, or harassment.

##### 5. Vehicle accidents and traffic management:

Parking lots can experience vehicle accidents, especially during busy periods or due to negligent driving.

##### 6. Parking lot congestion:

Insufficient parking spaces, poor layout, and lack of organized parking management can lead to congestion and frustrations for drivers. This can result in conflicts among drivers, illegal parking, and difficulties in finding available parking spots.

##### 7. Enforcement and compliance:

Parking lots face the challenge of enforcement and compliance with parking regulations. This involves monitoring and addressing parking violations such as unauthorized parking or overstaying time limits. Challenges in enforcement include limited resources, difficulties in identifying violators, and managing access controls or parking permits.

##### 8. Emergency response and evacuation:

In the event of emergencies such as fires, natural disasters, or security incidents, parking lots need to have effective emergency response plans and evacuation procedures. Lack of clear exit routes, limited emergency communication systems, and inadequate training can impede timely and safe evacuation.

##### 9. Maintenance issues:

Parking lots require regular maintenance to address issues such as potholes, malfunctioning

lighting, broken barriers, and faulty surveillance systems. Neglected maintenance can impact the overall security and functionality of the parking facility.

10. Insider threats:

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

11. 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.

USE OF VIDEO SURVEILLANCE AT PARKING LOTS

Most parking lots have video surveillance covering the following areas:

- Entry and exit points
- Payment kiosks and ticketing areas
- Parking spaces
- Pedestrian walkways and elevators
- Stairwells and ramps
- High-risk areas

Further, parking lot officials analyse recorded CCTV video footage from time to time for investigating incidents and/or accidents, and other issues in order to corroborate evidence as well as assist Police/other Law Enforcement Agencies.

Also, parking lots use other forms of video surveillance as follows:

1. License Plate Recognition (LPR) cameras:

License Plate Recognition (LPR) cameras are specifically designed to capture and recognize license plate numbers. These cameras can be used at entry and exit points to automatically record and identify the license plates of vehicles entering or leaving the parking lot. LPR technology can help with parking enforcement, access control, and identifying vehicles involved in security incidents or violations.

2. Thermal cameras:

Thermal cameras use heat signatures to detect and capture images. They are used in parking lots to identify unusual heat patterns or detect the presence of individuals or objects in low-light or adverse weather conditions. Thermal cameras can enhance security by alerting operators to potential threats or detecting unauthorized access or activities.

LIVE MONITORING – CHALLENGES

Some parking lots have a dedicated control room with operators, set up for live monitoring of CCTV and other 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 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.

### AI - HOW TO MAKE IT MORE EFFECTIVE

The solution to making AI more effective lies in continuous learning from real-world incidents through post-event auditing. COM-SUR provides exactly this capability, enabling AI models to evolve based on audit findings and incidents that go beyond real-time detection. By auditing daily footage, capturing exceptions, and feeding this data back into AI models, the accuracy of AI systems can be significantly improved, helping to reduce false alarms and enhance detection capabilities.

Auditing ensures that AI learns from what might have been missed in real-time, allowing it to adapt to the unique requirements of different environments. Whether it's improving facial recognition accuracy or refining anomaly detection, this continuous feedback loop makes AI smarter and more reliable over time.

However, it's essential to recognize that AI, like any automated technology, can only perform tasks it's programmed for. It cannot account for every possible scenario or exception, leaving certain areas outside its programmed scope. This is why human intelligence and intervention will always play a vital role in verifying and refining AI outcomes.

### "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:

- Parking issues
  - Maintenance issues
  - Accidents/Causes of potential accidents
  - Potential causes of fires
  - Housekeeping issues
  - Violence
  - Vandalism
  - Compliance issues
  - Recces/suspicious movements/activities
  - Staff negligence
  - Inattentive staff (e.g. guard sleeping)
  - Insider job/security lapses
  - Unauthorized/unlawful activities/visitors
  - Fraud/loss/corruption/theft
  - Intrusions, especially by animals
  - Unruly staff/security guards/customers
  - Unclaimed/unattended objects
  - Issues with female staff or customers
  - 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 stakeholders of parking lots report incidents in a standardized template, relevant authorities can derive business intelligence from the data and take action for the collective benefit of all parking lots worldwide.

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 authorized staff.
2. List of authorized security personnel deployed at the parking lot.
3. List of habitual offenders/suspects likely to visit the parking lot (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.

NEW SKILL – 'CCTV VIDEO FOOTAGE AUDITOR'

In a groundbreaking move, the Ministry of Skill Development of India has established National Occupational Standards for the crucial skill of CCTV Video Footage Auditing. The Ministry of

Education has also introduced a course to teach this skill to students in grades 11 and 12. This initiative will not only create new job opportunities and business ventures for those seeking a fresh career path but also for retirees from both the armed forces and the private sector. Additionally, this skill will help activate the millions of CCTV cameras currently underutilized, bringing them out of 'sleep mode' and enhancing their effectiveness.

AI WHERE YOU NEED IT, HI ALL THE TIME – THE AUGMENTED INTELLIGENCE MANTRA

The true power of COM-SUR lies in its ability to seamlessly integrate AI and Human Intelligence (HI) into a cohesive, Augmented Intelligence system. With COM-SUR, AI can be leveraged when needed to enhance analysis and generate insights, while HI remains at the core of the system's operation, ensuring that the technology is always accessible, intuitive, and responsive to human needs. This balance between AI and HI is what defines Augmented Intelligence, making COM-SUR a revolutionary tool that elevates the entire surveillance industry.

CONCLUSION

"You see, but you do not observe"—a famous quote by Sherlock Holmes in A Scandal in Bohemia (1891, by Sir Arthur Conan Doyle)—perfectly illustrates the need for human insight in surveillance. While computers can 'see,' it is human observation that truly interprets and acts on what is seen. COM-SUR simplifies and enhances this critical process, leading to more effective and insightful results.

"Cameras don't lie"—but how will you know unless you 'see' what the cameras 'saw'? Don't wait for things to go wrong. Start auditing your CCTV footage with award-winning COM-SUR today.

In closing, we present three guiding principles that will revolutionize video surveillance:

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