



COMTM SUR

the missing piece of CCTV

COM-SURTM EMPOWERS PEOPLE TO ACHIEVE
OPTIMAL OUTCOMES FROM SURVEILLANCE VIDEO,
LEADING TO A SAFER WORLD.



UTILITY VALUE OF
COM-SUR™ FOR
RAILWAYS

WELCOME



OVERVIEW

CCTV surveillance is common in railways 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 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.

CHALLENGES FACED BY RAILWAYS

1. Terrorism and other issues:

Railway facilities constantly face threats of terrorism, shootouts, and other issues such as thefts, robberies, vandalism, intrusions, instances of sexual and other forms of abuse, violence, bullying/intimidation, false allegations and/or claims, disputes, housekeeping issues, health and safety issues and so on. Perpetrators often conduct pre-operational surveillance of the target area, making it important to detect suspicious activity during this phase to prevent an incident.

2. Passenger and worker safety:

Ensuring passenger and worker safety is a top priority for railways. This includes preventing accidents, derailments, and collisions.

3. Infrastructure maintenance:

Maintaining and upgrading railway infrastructure is a significant challenge for many railways. This includes tracks, signals, bridges, and tunnels.

4. Overcrowding:

Many railways struggle with overcrowding, particularly in urban areas. This can lead to delays, reduced efficiency, and safety concerns.

5. Insider threats:

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

COVID-19 PANDEMIC

The pandemic severely impacted railways worldwide. Owing to restrictions/lockdowns, there was a sharp decline in passenger traffic which led to a decrease in revenue for many railways. Further, there was a disruption in the supply chain causing delays in the transport of goods. This affected railways that relied on freight traffic as it led to a significant decrease in revenue. Guidelines were issued to prevent the spread of COVID-19, but outbreaks still occurred.

USE OF VIDEO SURVEILLANCE AT RAILWAY FACILITIES

Most railway facilities have video surveillance covering the following areas:

- Station entry and exit points
- Stations and platforms
- Ticketing areas
- Trains and other railway vehicles
- Parking areas
- Maintenance facilities

- Perimeter fences

- Railway yards

Further, railway authorities generally review and analyse recorded CCTV footage to investigate incidents of theft, vandalism, or terrorist activities on trains or railway stations, as well as accidents or near misses in order to identify their causes to improve safety measures.

LIVE MONITORING – CHALLENGES

Several railway facilities 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:

- Accidents/Causes of potential accidents
- Health and safety issues
- Vandalism
- Recces/suspicious movements/activities
- Insider job/security lapses
- Bullying/violence/disputes
- False allegations and/or claims
- Sexual harassment and/or other kinds of abuse
- Unauthorized/unlawful activities/visitors
- Loss/fraud/theft

- Intrusions, especially by animals
- Railway guard sleeping on duty
- Unruly staff/visitors/outside workers/security guards
- Parking issues
- Unclaimed/unattended objects
- Housekeeping issues
- Issues with female staff or visitors
- 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 all railway facilities report incidents in a standardized template, relevant authorities can derive business intelligence from the data and take action for the collective benefit of all railways.

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 authorised officials at the railway facility.
2. List of authorized security personnel deployed at the railway facility.
3. List of habitual offenders/suspects likely to visit the railway facility's premises (a 'Watch out' list).

5) USE A POWERFUL NEW SIGNAGE

"WE CHECK 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.

THE SOLUTION - '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 a 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.

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!