



# COM<sup>TM</sup> SUR

the missing piece of CCTV

COM-SUR<sup>TM</sup> EMPOWERS PEOPLE TO ACHIEVE  
OPTIMAL OUTCOMES FROM SURVEILLANCE VIDEO,  
LEADING TO A SAFER WORLD.



UTILITY VALUE OF  
COM-SUR™ FOR  
THE MANUFACTURING  
SECTOR

WELCOME



OVERVIEW

CCTV is commonly used in the manufacturing sector 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.

MANUFACTURING SECTOR CHALLENGES

1. Theft and sabotage:

Manufacturing facilities may be targeted for theft of raw materials, finished products, or valuable equipment. Further, they face threats by disgruntled employees or outside actors who may attempt to sabotage manufacturing processes or equipment.

2. Unauthorized access:

Manufacturing facilities need to ensure that only authorized personnel are allowed inside the premises, and that visitors do not have access to restricted areas.

3. Product tampering and quality issues:

Manufacturing facilities need to ensure that their products are not tampered with, either intentionally or accidentally, during the production process. Also, manufacturing facilities need to monitor for quality control issues or product defects.

#### 4. Theft of intellectual property:

Manufacturing facilities need to protect their intellectual property, such as patents, trademarks, and trade secrets, from theft or infringement.

#### 5. Worker safety:

Manufacturing facilities would have many hazards, such as heavy equipment, elevated work areas, and hazardous materials.

#### 6. Fire issue:

Manufacturing facilities can be at high risk of fires due to the presence of flammable materials and welding activities.

#### 7. Compliance issues:

Manufacturing facilities must comply with various regulations and safety standards.

#### 8. Insider threats:

Manufacturing facilities 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 the manufacturing sector worldwide. Owing to restrictions/lockdowns, several manufacturing facilities experienced disruptions to their supply chain, making it difficult for manufacturers to procure raw materials and components for manufacturing. Also, there was a reduced demand for products considered non-essential leading to decreased production levels and

losses. On the other side, there was an increased demand for products such as personal protective equipment (PPE) and medical supplies. Guidelines were issued to prevent the spread of COVID-19, but outbreaks still occurred.

#### USE OF VIDEO SURVEILLANCE AT MANUFACTURING FACILITIES

Most manufacturing facilities have video surveillance covering the following areas:

- Entrance and exit points
- Loading docks and shipping areas
- Production lines
- Storage areas
- Laboratories and research facilities
- Server rooms and other critical infrastructure areas

#### REMOTE VIDEO MONITORING

Some manufacturing facilities use remote video monitoring services to keep an eye on their facilities and equipment 24/7. Remote monitoring can help to identify potential security threats or equipment malfunctions in real-time.

#### REMOTE VIDEO AUDITING

Remote video auditing (RVA) is being increasingly used in the manufacturing sector for a variety of purposes, including quality control, compliance monitoring, and process improvement. RVA involves the use of remote video technology to conduct audits or

inspections of manufacturing processes and facilities, often by third-party auditors. The video footage is transmitted in real-time to the auditor's location, where it can be analyzed and evaluated against predetermined quality standards or regulatory requirements. This allows for faster, more efficient audits that can be conducted remotely, reducing the need for on-site inspections and saving time and costs.

### LIVE MONITORING – CHALLENGES

Several manufacturing 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 CCTV 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.

### 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 SURVEILLANCE IS NOT ENOUGH – WE MAKE IT WORK FOR YOU”

While it is not being suggested that optimal use 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:

- Quality control issues
- Operational issues
- Accidents/Causes of potential accidents
- Potential causes of fires
- Compliance issues
- Health and safety issues
- Loss/fraud/theft
- Recces/suspicious movements/activities
- Insider job/security lapses
- Violence/disputes
- Unauthorized/unlawful activities/visitors
- Intrusions, especially by animals
- Unruly workers/security guards

- Unclaimed/unattended objects
- Issues with female workers
- 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 video 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 manufacturing facilities report incidents in a standardized template, relevant authorities can derive business intelligence from the data and take action for the collective benefit of the manufacturing 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/storage device 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 daily workers.
2. List of authorized security personnel deployed at the manufacturing facility.
3. List of habitual offenders/suspects likely to visit the manufacturing facility (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!