









A large red hexagonal graphic with rounded corners, containing the text 'SECURNA Smart Surveillance update' in white. The background of the slide is a dark, industrial setting with a camera mounted on a metal structure, and several semi-transparent hexagons of various shades of red and grey are scattered across the right side.

SECURNA
Smart
Surveillance
update

August, 2018



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About us



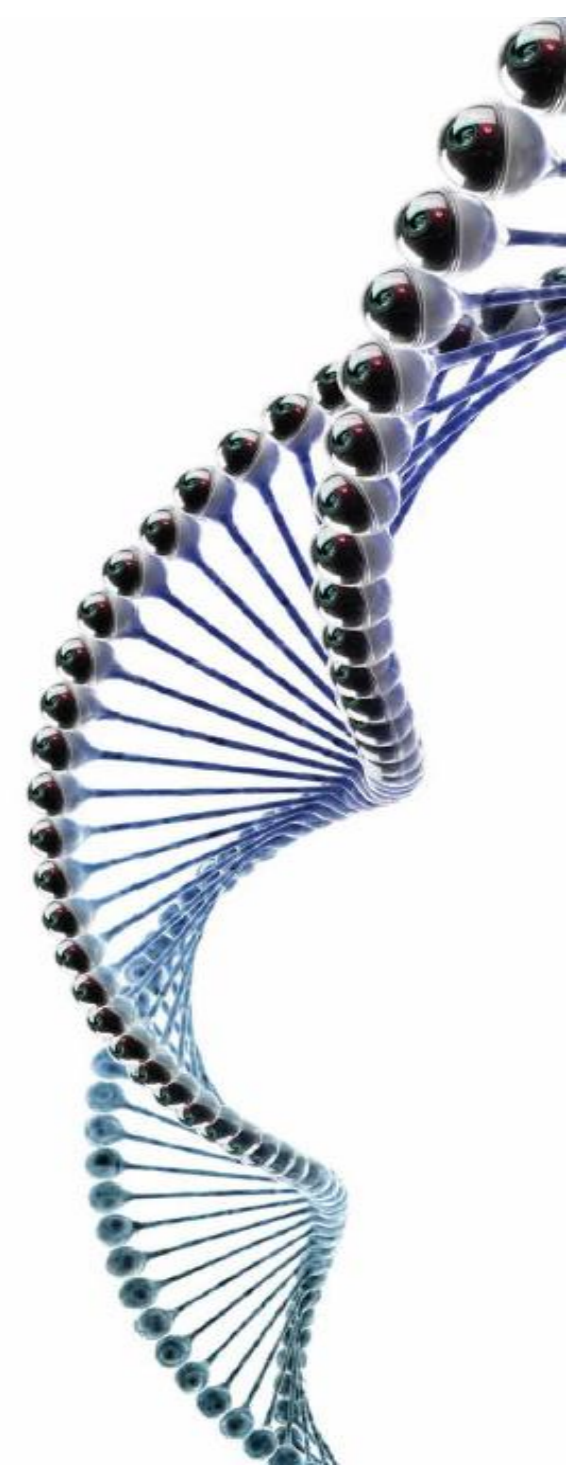
CHANGING THE DNA OF SURVEILLANCE

Lookman has been in the business of bringing you peace of mind, for over 35 years. Established by Dr. Saifuddin Bharmal, a pioneer in the Indian surveillance industry, Lookman has grown to become one of the leading surveillance solution providers in India.

In the year 2004, we launched Secura, our own range of cutting-edge surveillance products. We distribute Secura surveillance systems through a widespread network of dealers across India.

Over the years, we have earned a reputation for offering world-class products backed by top-notch technical support and after-sales service.

What brings us greater pride is our diverse portfolio of clients, ranging from high-profile government and public sector departments to numerous private sector clients and homeowners. When it comes to security, Lookman is the name that the country looks up to.



Our Acheivements

Industry leaders in smart city segment in India

- Largest State deployment
- Largest Single order City deployment
- Largest ANPR and RLVD project

Award winning software suites

- Best accuracy for Indian Plates
- Most innovative solution for E-Challan

Pioneers

- Longest presence in CCTV field in India
- First A.I based large scale deployment for CCTV



RECENT PROJECTS

Completed:

- Ahmedabad Smart city (6500 IP cameras)
- Rajasthan 7 cities surveillance (2200 IP cameras)
- Tamil Nadu police (308 police stations, 1848 IP cameras)
- Reserve Bank of India (6 locations, 800+ IP cameras)
- Mumbai city police (25 police stations)
- Street surveillance for New Delhi Municipal Corporation (1500+ IP cameras)

Recently awarded:

- Rajasthan 20 cities rate contract (20000+ IP cameras)
- Karnataka State Police (770+ Police stations, 3000+ IP cameras)
- Rajasthan state rate contract (650 Body worn cameras)

▶ Areas of coverage

Improvements in
Edge hardware
For surveillance

Decision on
Edge vs
Centralised
computing

Rapid
response
integration
with Mobile
Surveillance

Impacting
Traffic
Behaviour
through
enforcement

Assertions

FAST

D e p l o y m e n t

RELIABLE

H i g h
U p t i m e

COVERAGE

M a x i m i z e d

SCALE

W i t h
E a s e

DETAILS

F o r
I d e n t i f i c a t i o n

SEARCH

S i m p l i f i e d

Updates

- New category of Cost effective zoom cameras with Pan-Tilt head for ease of installation and versatility in operations.
- Context based Auto-tracking system for minimizing number of cameras deployment in larger scenes. Both Standalone and integrated.
- Specialised weather proofing technology for long term clean visibility and durability of cameras. Nano technology for Anti-Static and Hydrophillic covers.
- Addressing limitations in Face recognition and associated stigma by creating a seamless, no stop checkpoint system.

Motorised bullet with pan tilt head



- Rotates and Tilts remotely, enabling faster installation and flexible control of larger areas
- Ultra Low light sensitivity makes it perfect for night time and low light scenes
- 100m IR range makes it apt for street surveillance, giving a large radius of coverage
- Optical zoom for better details and coverage
- Built in white light LED
- 2 way audio support
- POE – power over ethernet simplifies deployment with single cable
- Robust IP67 housing and design for All weather performance
- Advanced H.265 encoding to save more than half of storage and bandwidth costs

Panaromic PTZ camera



- Fixed multiple image sensors covering 180 ° / 360 ° Panoramic view of the scene
- Ultra Low light sensitivity makes it perfect for night time and low light scenes
- 800m Laser IR range makes it apt for Wide area surveillance, giving a large radius of coverage
- 44X Optical zoom for better details and coverage
- Built in white light LED
- 2 way audio support
- Auto tracking of movements by Zoom with panorama as context
- Robust IP66 housing and design for All weather performance
- Advanced H.265 encoding to save more than half of storage and bandwidth costs

Context based Autotracking



Solution

- Identify Key Ingress and Egress points of the City like Airports, Stations, Hotels, Diplomatic residence corridors, Roadway entry to the City
- Set up Face recognition checkpoints, with only 1 or 2 supervising officers, merely to address exceptions and give comfort to veiled / masked citizens via a private segment in the checkpoint passage
- Connect system to centralised database for rapid matching and alert escalation upon detecting blacklisted person
- Blacklist alert database connected to relevant vigilance forces

Face and Appearance Capture in edge



- A.I on edge tasked to only capture
- Bandwidth transmission minimised to mere cropped images of 20~100 Kilo bytes
- Structured attribute analysis of Appearance and of the face in the central processing centre
- Enables maximisation of resources at centre by diverting them from dedicated video decoding to a queueable image processing system

Assertions

TRACK

A s s e t s

MANAGE

E v i d e n c e

OBTAIN

F i e l d
C o n t e x t

ENCRYPT

F o r
S e c u r i t y

COMMUNICATE

S e a m l e s s l y

RESPOND

I m m e d i a t e l y

▶ Mobility Surveillance for Rapid response

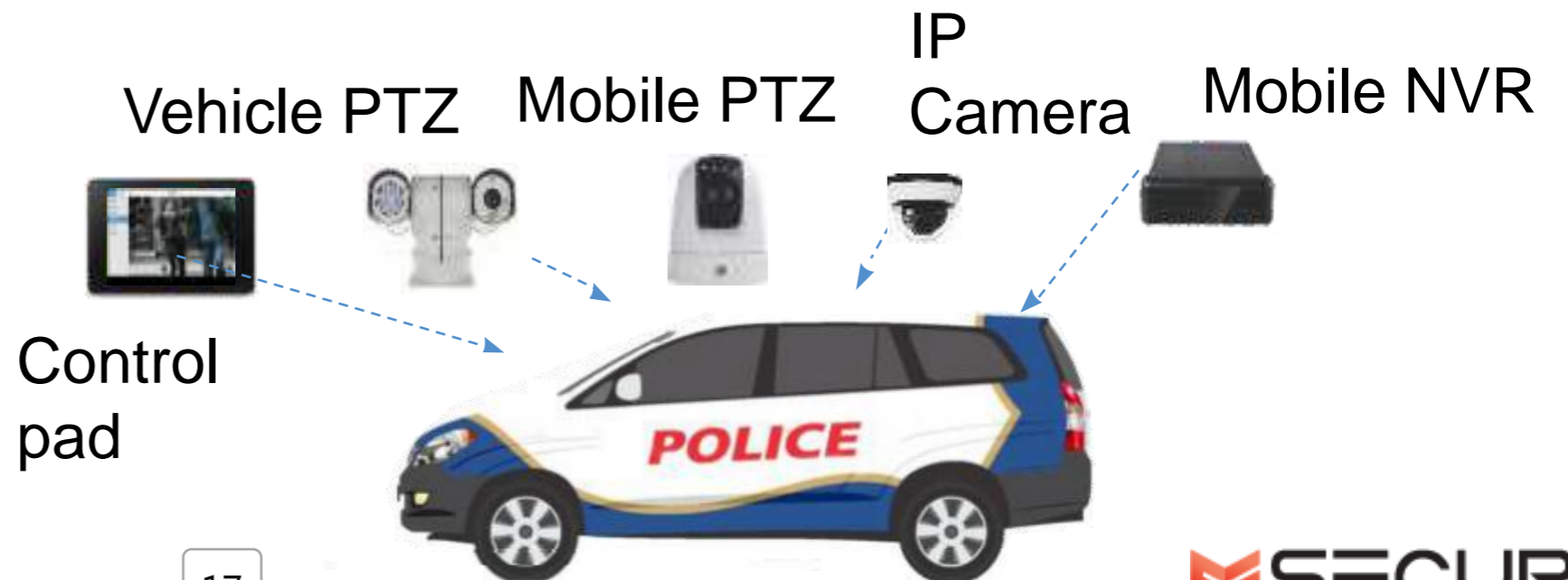
Updates

- Moving towards an Integrated solution where surveillance equipment are used for aggregating Data of other sub systems
- Vigilance personnel equipped with Body Worn Cameras that not only support local recording and connection to command centre
- Command centre and Video management system synchronised over E-Map to aid immediate despatch system
- Integrating other technologies like IP based Push to talk to create a distance insensitive communication system for the forces.

Vehicle Surveillance



- Robust hardware designed for vehicle mounting
- 4G enabled MNVRs for remote viewing at command centre
- Built in GPS module
- Apt for despatch control, verification and evidence management



Bodyworn Surveillance



- Body worn Camera, with 4G plus Wi-Fi and GPS
- Directly interfaces with VMS and Face Recognition System
- Can Receive Alerts on detecting blacklisted person via IP PTT service
- 2-Way Audio communication with command center
- Device to Device communication (Voice, Text and images)
- Device to Group of device communication (Voice, Text and images)



Assertions

APPREHEND

S u s p e c t s

MINIMIZE

T r a f f i c
V i o l a t i o n s

CREATE

S y s t e m i c
T r a n s p a r e n c y

FIND

M i s s i n g
V e h i c l e s

IMPROVE

R o a d S a f e t y

ANALYZE

E x c e p t i o n s

Updates

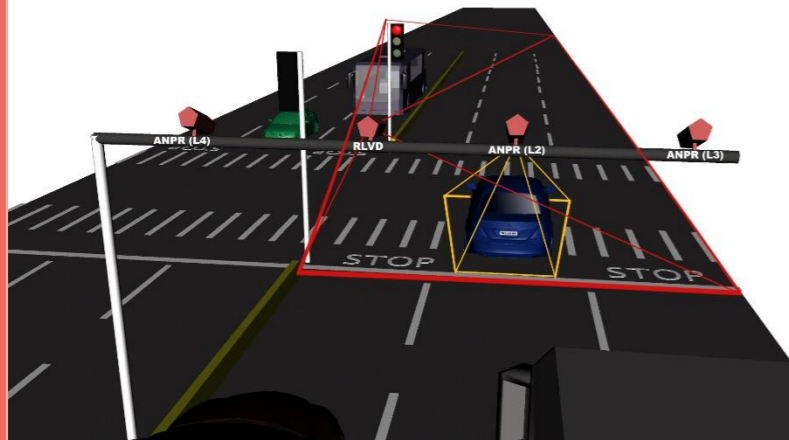
- Demand from police for finding a solution to automate the challaning process for transparency
- Relying on A.I for validation
- Threshold of indifference for value of fines
- Demand for Big data performance
- Connectivity to mobile response systems for despatch control

ANPR



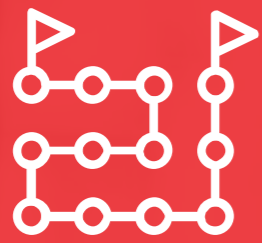
- Number plates on vehicles are captured through video analysis
- The captured plate image is then translated to text with OCR (optical character recognition) technology
- Industry leading Accuracy on both standard and non standard License Plates
- Blacklisted (Wanted, Stolen, Banned) vehicles will trigger immediate alert to appropriate authorities
- It becomes possible to chart the possible routes in a Map and aid investigative forces

RLVD



- Monitors the actual Signal using a context camera instead of relying on sensors
- Red light enables the violation triggers
- Vehicles detected in the violation region are captured along with context images
- Violation file is sent to E-Challan application to prepare a fine automatically for approval before issuance





Project Road Map



▶ Project Road Map

01 ▶

Roll out localized
Surveillance and Traffic
monitoring and establish
Traffic control center

02 ▶

Earn revenue from Traffic
monitoring and establish
Network for remote
viewing

03 ▶

Set up Surveillance
Command Center and
Check point system

Thank You

