



Traffic Analytics

Intelligent Neural Network Video Analysis & Smart City
Traffic Management Platform

WHAT IS KNOWN ABOUT 6SS?



AI & Neural Networks

Founded in 2013, 6SS is an American-established technology leader where highly qualified IT engineers develop industry-grade software solutions using state-of-the-art neural networks and artificial intelligence.



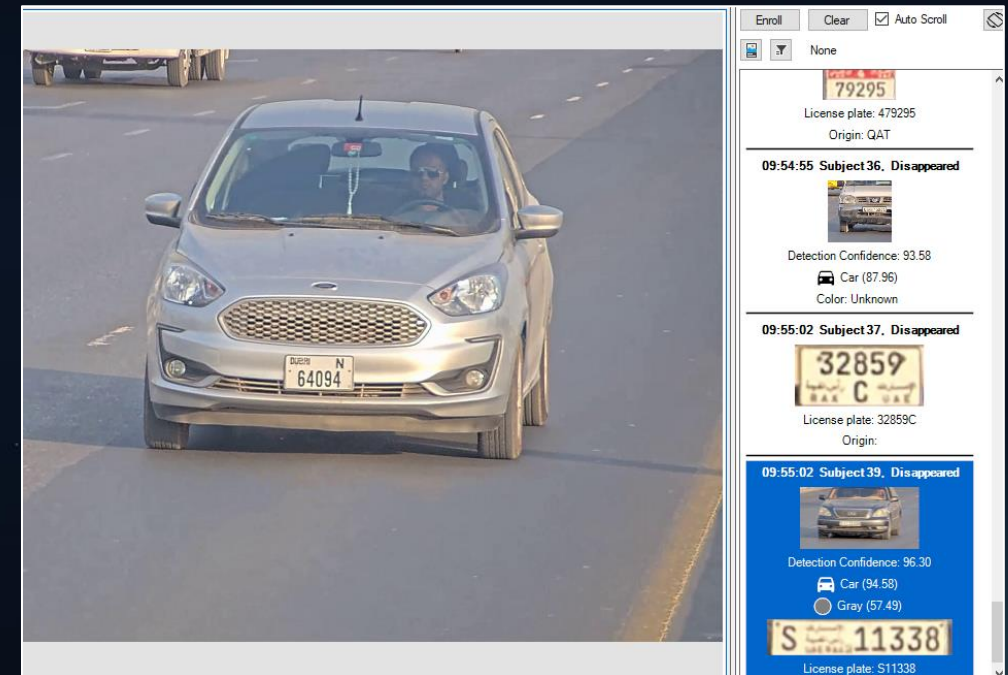
Advanced Portfolio

The 6SS product range spans License Plate and Face Recognition, Traffic Analytics, Smart Parking, Forensic Analysis, Object Detection, Intelligent Tracking Systems, and custom enterprise video integrations.

6SS TRAFFIC ANALYTICS

Deployable on highways, busy shipping ports, warehouses, retail centers, stadiums, or parking structures.

- ✓ **Classification:** Identify vehicle classes and count precise quantities dynamically.
- ✓ **Flow Mapping:** Track localized transit behavior patterns.
- ✓ **Optimization:** Pinpoint major congestion bottlenecks and maximize physical space utilization.



KEY SYSTEM FEATURES



Intensity & Rate

Determine exact flow metrics, density changes, transit rates, and speed values over specific road segments or lanes.



Class Recognition

Recognize and filter distinct traffic categories: pedestrians, bicycles, motorcycles, cars, buses, and freight trucks.



AI Optimization

State-of-the-art neural models are engineered to achieve high accuracy thresholds regardless of environmental interference.

DATA PROCESSING MODELS

Qualitative Processing

A resource-optimized, high-accuracy processing configuration designed to extract exhaustive detail from streams. Well-suited for dense municipal intersections and major highways with high server availability.

Productive Processing

A lightweight, high-performance configuration optimized to operate seamlessly on restricted server specs or local edge processors, maintaining vital traffic metrics without performance bottlenecks.

IN THE CONTEXT OF SMART CITY



1. Flow Optimization

Streamline road travel, organize pedestrian zones, and deploy dynamic traffic jam alerts.



3. Violations Tracking

Track wrong-way motorists, illegal sidewalk cycling, and bus-lane violations.



2. Bottleneck Solvers

Identify structural congestions and align municipal repairs with low-intensity hours.



4. Visitor Optimization

Leverage spatial analytics for commercial zoning and optimal digital screen placement.

1. TRAFFIC FLOW OPTIMIZATION

Leveraging city video feeds dynamically optimizes municipal transport layouts and resolves road-user layout issues:

- Plan targeted street widening and optimal pedestrian crosswalk placements.
- Coordinate truck freight timetables to prevent urban peak-hour gridlocks.
- Map sidewalk density to locate and schedule practical bicycle lanes.



PEDESTRIAN SAFETY

Empirical Sidewalk Insights

Track general pedestrian volume trends, locate hazardous street locations, and identify common sidewalk misuse patterns.

Acquiring granular pedestrian analytics allows municipal departments to confidently adapt city signage and road markings to protect citizens.



2. BOTTLENECKS PROBLEM SOLVING



City Road Networks

Trace slow-downs at major public transit drop-offs and schedule municipal infrastructure repairs relative to seasonal density curves to minimize passenger delay.



Industrial Impact

Trace the direct impact of commercial heavy transit on local neighborhood thoroughfares, establishing bypasses or load-limit rules during busy hours.

3. TRACKING OF VIOLATIONS



Wrong Direction Detection

Identify vehicles traveling against the lawful flow of traffic and automatically alert emergency response.



Crossing In Prohibited Areas

Track persistent jaywalking or hazardous highway pedestrian crossings to optimize crossing signals.



Sidewalk Safety Enforcement

Detect illegal usage of sidewalks by fast-moving scooters, delivery bicycles, or motorcars.



Dedicated Lane Infringements

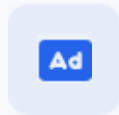
Control unauthorized vehicle entries into public bus lanes, carpools, or dedicated emergency routes.

4. ENCOURAGEMENT OF VISITORS



Space Planning

Map exact physical visitor distributions inside department stores, venues, and commercial layouts to maximize footprint effectiveness.



Smart Advertising

Quantify passenger flow densities past major displays to calculate real ad impressions and schedule dynamic digital signages.



Data Comparison

Observe historical flow statistics relative to seasonal variations, daily timeframes, and local municipal variables.

5. BUSINESS PROCESSES OPTIMIZATION

24/7
Dynamic Operations

Aligning Resources with Real-time Volumes

Scale labor resources dynamically based on customer flow peaks, transferring service personnel to the busiest sections as load shifts.

Maximize regional safety and property security with data-driven workflows.

Adjust transit, parking, and logistics routines dynamically relative to the flow computations of 6SS Traffic Analytics.

Any Questions?

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