DEEP LEARNING EMPOWERED VIDEO ANALYTICS FOR GREATER ROBUSTNESS & ACCURACY

> **XINTELLIGENCE**

> **XTRANSPORT**

XJERA LABS
videos to insights

An award winning Video Analytics solution, **XJERA LAB's Video Analytics** is the security surveillance backbone behind many key government and commercial enterprises.

OUR SOLUTIONS

	People		Object	Vehicle	
Features	• Crowd Count • Queue Count • Face Recognition • Face Emotion Analysis	• Intruder Alert • Tailgating Detection • Loitering Detection • People Attributes	• Abandoned Bag Detection • Stains & Dents Detection • Fire Detection • Camera Tampering • Foreign Objects & Debris Detection	• Vehicle Flow & Direction Detection • Traffic Jam Detection • License Plate Recognition	• Illegal Parking • Vehicle Classification • Vehicle Attributes
Attributes	• Gender • Age • Hair Length • Headgear	• With/Without Glasses • Clothing Type • Aggressive Behaviour	• Bag Type (haversack, tote & luggage, etc) • Incipient Fire	• Vehicle Make • Vehicle Model • Vehicle Colour • Vehicle Speed • Vehicle Type (car, bus, truck, minivan, bicycle, motorcycle & personal mobility devices, etc)	
Benefits	• Reduce vandalism • Decrease acts of violence • Reduce overcrowding • Minimize operating costs	• Improve overall customer experience • Identify buyer personas	• Reduce theft & loss • Safeguard critical assets • On-demand equipment maintenance • Remote monitoring • Increase productivity • Reduce false fire alarms	• Improve infrastructure planning • Minimize malicious threats • Reduce traffic jam • Reduce traffic incidents • Reduce carbon emissions	

XIntelligence and **XTransport**, are developed using **XJERA LABS**' Advanced Artificial Intelligence technology. They operate in diverse environments and challenging weather conditions, particularly crucial for public safety, security and critical installations. This capability is one unique to **XJERA LABS**, making us stand out as one of the key video analytics providers in Asia.

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XINTELLIGENCE

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ENHANCE YOUR
SITUATIONAL AWARENESS

Rather than confining to the office and staring at hours of video footage, your security team can be deployed to perform other tasks; at the same time, still be kept updated of incidents through remote monitoring.

XIntelligence is an integrated video analytics solution that uses heterogeneous deep neutral networks, combined with real-time analytical framework. The results; active and automated face recognition, identification, classification, count, search and tracking of multiple people/objects, making **XIntelligence** an essential video analytics solution for deployment in high density areas.

Valuable data can be delivered via different communication modes, translating those data into actionable insights that aids swift response to incidents, thus enhancing overall safety and security.
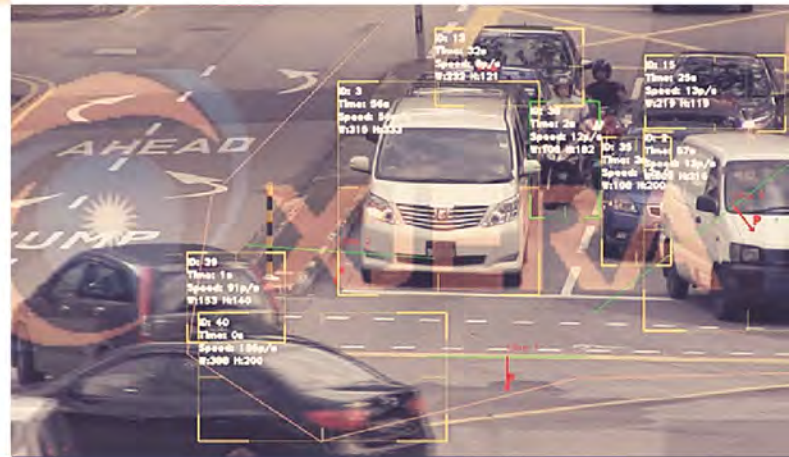
Performance of 70ms in response time with over 90% accuracy (based on testing with NVIDIA advanced GPU)

The results gathered from vehicle counting, tracking and classification can be used to analyse a variety of traffic conditions, such as traffic congestion, queue time and traffic incidents.

XJERA LABS' XTransport Video Analytics is an advanced intelligent analytics solution that can accurately provide real-time key information, such as vehicle type, license plate number, travel speed and direction of vehicle flow. **XTransport** can be used to describe a vehicle's attributes, eg. vehicle make and model.

Using a revolutionary deep learning framework developed by **XJERA LABS**, **XTransport** is a robust solution which can perform under challenging environments, such as, reflections, shadows, shaky cameras, night conditions and low-resolution videos, yet still achieving a consistent performance above 90%*.

ABOUT US

Established in 2013, **XJERA LABS** is a Singapore based emerging market leader of Artificial Intelligence and video analytic solutions in Singapore and Asia.

Our video analytics solutions provide real-time, accurate and actionable insights for round-the-clock monitoring and detection.

We have received recognition by numerous government agencies in Singapore. This includes Infocomm Media Development Authority (IMDA) , where we won first place in the Infocomm Development Authority (IDA) Inaugural Video Analytics Challenge 2015. In 2017, we came in first during Singapore Changi Airport Video Analytics Challenge.

This, as well as winning other iconic projects, has marked **XJERA LABS** as a highly accredited company in the smart city domain.

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www.xjeralabs.com

SG:D
ACCREDITED