TMA Smart Camera Solutions

◇ Overview

Deployment	Edge	On-Premise	Cloud
Applications	Manufacturing	Security & Safety	Retail	Smart Building
Hardware	Camera	Edge computer	Server	Mobile/ Tablet

◇ Functions

Face Recognition	Gender Recognition	Age Prediction
Children Detection	People Detection	Trespassing & Vandalism Detection
Behavior Analytics	Pet Detection	Gun Detection
Fighting Detection	Crowd Detection	Vehicle Detection
License Plate Recognition	Protective Personal Equipment Detection	Pest Detection
Pig Disease Detection	Disease in Rice Paddy Detection	Road Damage Detection

Sample Hardware

Camera

Edge Computer

Nvidia *Jetson Nano/TX2/Xavier*

ASUS
EBS-I10

ADLINK
EOS-JNX

ADLink
DLAP-211-Nano

SOPHGO
AI Micro Server

AMD-Xilinx
Avnet Ultra96

Intel
Axiomtek IPC950

AI server with GPUs

Nvidia *GeForce, Quadro, Tesla*

SOPHGO *GPU*

AI on Mobile

Technologies

Edge AI

- Tensorflow Lite
- Pytorch Mobile
- OpenVINO
- NVIDIA Jetson
- Edge Impulse
- Caffe 2
- MXNet

Model Type

- Object Detection
- Image Classification
- Image Segmentation
- Pose Estimation
- Image Captioning
- Style Transfer
- Super Resolution

Frameworks

- OpenCV
- Scikit-image
- Pillow
- Tensorflow
- Keras
- Pytorch

Cloud AI

- AWS Rekognition
- AWS
- Kinesis
- Azure Cognitive Service
- GCP AutoML Vision

◆ Solutions

Smart Camera for Security & Safety

Weapon detection	Daytime loitering detection	Crowd monitoring
Aggressive behavior detection	Vehicle detection	Road damage detection
Throwing detection	Door/window tampering & breaking detection	Fall detection
Trespassing & vandalism detection	Nighttime loitering detection	Children detection

Smart Camera for Manufacturing

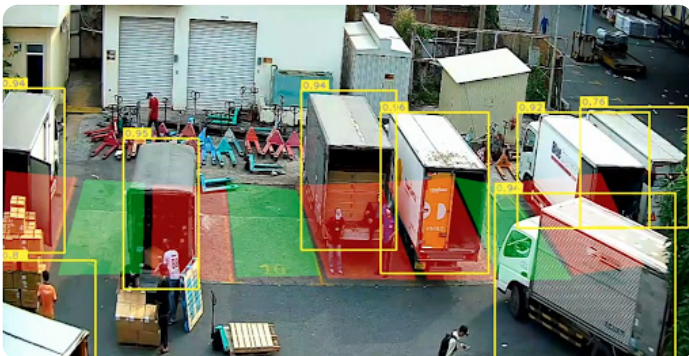|		
Access control	Attendance check	Personal protective equipment detection
Trespassing & vandalism detection	Behavior analytics	Analog device reader
Product quality control	Object counting	Vehicle monitoring
Parking lot detection		License plate recognition

Solutions

Smart Camera for Retail

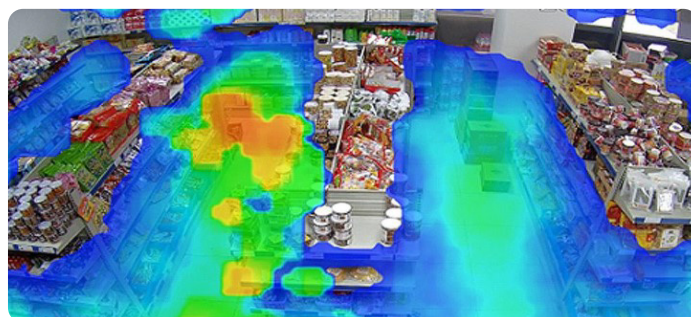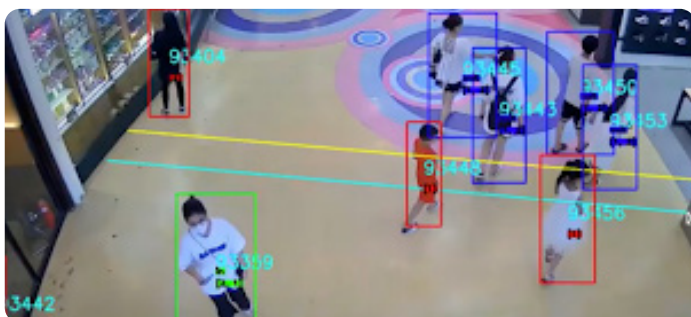| People detection & Traffic tracking	People counting	Age & gender detection	VIP & blacklist detection
People heatmap	Product & brand detection	Customer journey tracking	Queue management
Warehouse access control		Attendance check	

Smart Camera for Building

Resident recognition	Staff recognition	Guest recognition
Children detection	Trespassing & vandalism detection	Pet detection

Contacts

Vietnam: +84 28 3995 1060
+84 28 3995 1059

Australia: +61 411 276 342

North America: +1 844 224 4188

Europe: +33 7 44 77 49 24

Japan: +81 50 5490 9867

Email: sales@tmasolutions.com

Website: www.tmasolutions.com