Intelligent Video Transportation

Optimizing On-Road Traffic Management

- WebAccess/IVS
- Intelligent City Traffic Management
- TrafficAccess VDS
- TrafficAccess IDS

ADVANTECH

Enabling an Intelligent Planet
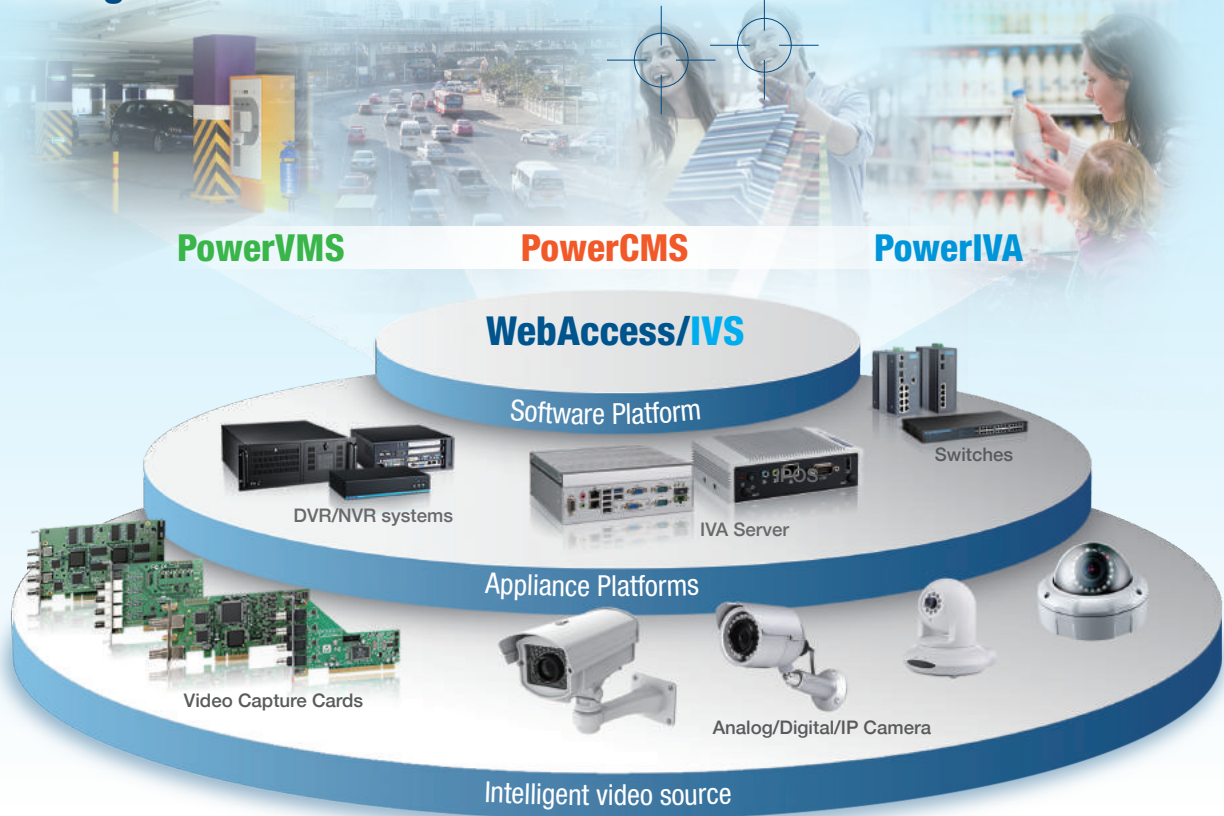
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Intelligent Video Software Platform

ParkingAccess **TrafficAccess** **FaceAccess** **RetailAccess**

PowerVMS **PowerCMS** **PowerIVA**

WebAccess/IVS

Software Platform

Switches

DVR/NVR systems

IVA Server

Appliance Platforms

Video Capture Cards

Analog/Digital/IP Camera

Intelligent video source

Intelligent Video Analytics (IVA)

Motion Detection
Monitoring the amount of motion and alert when something changes

Forbidden Zone
Alarms when intrusions occur in one ore more predefined forbidden zones

Camera Tamper
Trigger alarms when the camera lens are covered, sprayed, defocused, or the camera is repositioned

Optical Self Diagnostic
Trigger alarm when optical misalignment, debris collects on the lens

Object Counting
Counting of individuals and / or vehicles. For separated moving objects

Dwell Time & Loitering
Ensure environment safety for tracking anyone suspicious

Crowd Detection
Crowd density status of people in specific region can be detected as over capacity indicator

Parking Vacancy
Detect the defined parking space is occupied or not by scene analysis

Face Detection
Applied to retail, finance, and hospitality usage. Identify by age and gender

People Counting
Calculates people passing through certain area. Counting by faces

Facial Recognition
Scan crowds and automatically identify people by their faces that help match faces in a crowd with names on a watch list

License Plate Recognition
Detects and recognizes vehicle license plates upon motion or I/O trigger. Automatically locate and match vehicle plates against wanted lists

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WebAccess/IVS

Flexible Event Action Plan

- *Flexible event action plans including alarm signal, snapshot, email/SMS notification, PTZ control, video record, file, execution and more.*
- *Event sources include motion/ sensor detection, camera signal loss, log status, backup/recording status, system status, etc.*

Quick Search for Event Logs

- *Quick search for event logs including login status, remote connection status, system events, camera status, motion/sensor detection, and more.*
- *Users can print out or save the event logs into excel or HTML files.*

Multiple Backup Mode

- *Backup recorded data to hard disk, Disk Array and USB without stopping video recording.*
- *Flexible selection of backup time, camera and storage location.*
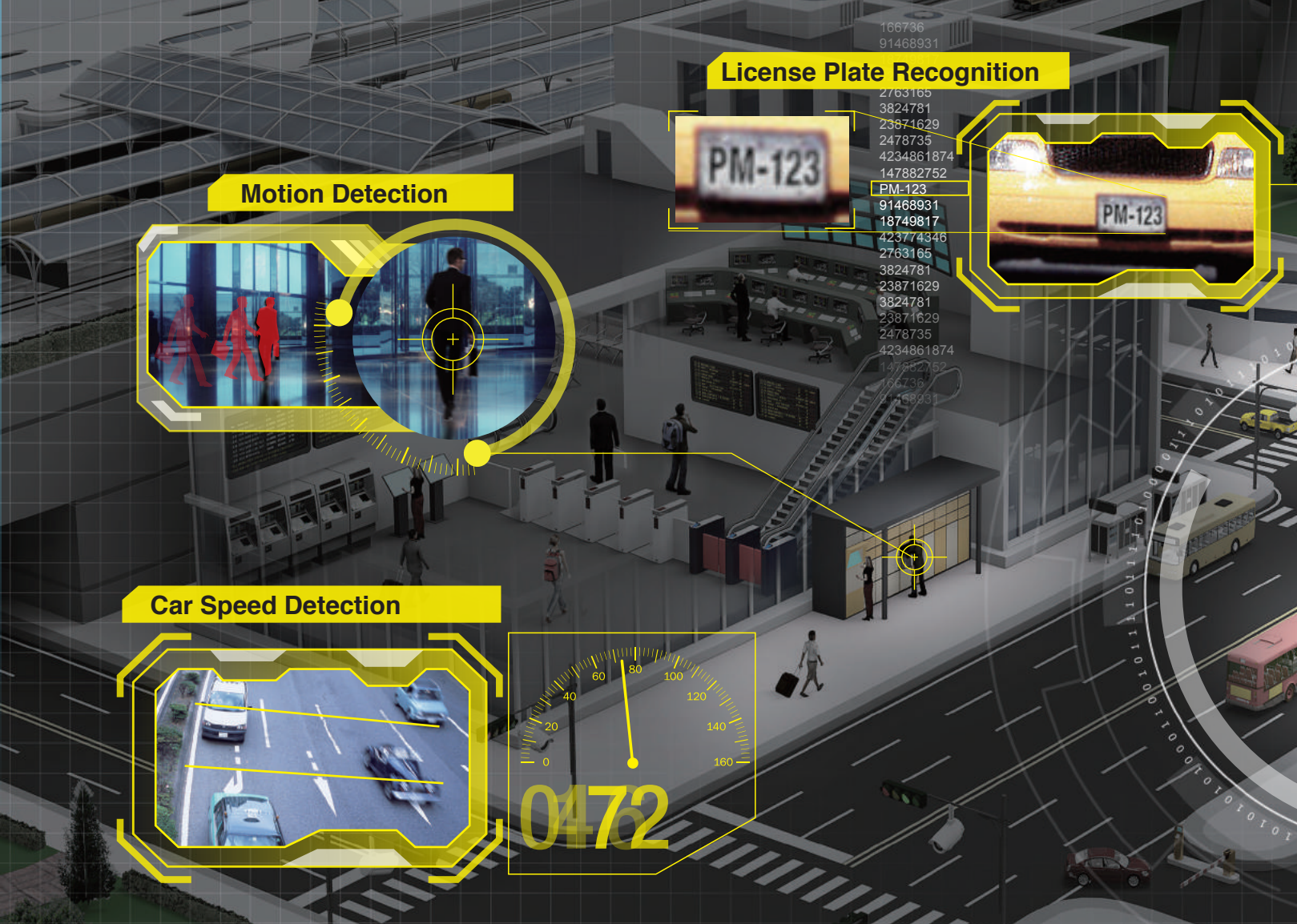- *Automatically calculate storage space required for backing up recorded data.*

Flexible and Diverse Recording Modes

- *Supports diverse recording modes and schedules for each individual camera*

Powerful IE Browser Monitoring
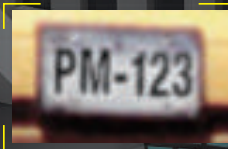
- *Monitor historical recorded video data and remote control for live view video, set up, and client system status monitoring through IE browser.*

License Plate Recognition

PM-123

Motion Detection

Car Speed Detection

0472

Electronic Toll Collection

In the evolution from manual to electronic toll collection (ETC), IVA technology plays a key role to automatically analyze the video, decreasing workforce requirements as well as assuring traffic flow on highway.

ARK-RI2150L

- Intel Core i7 (Ivy)
- 64GB mSATA
- RFID Receiver Module (Option)
- 4CH 1080p/120FPS
- WebAccess+IVS with LPR IVA*
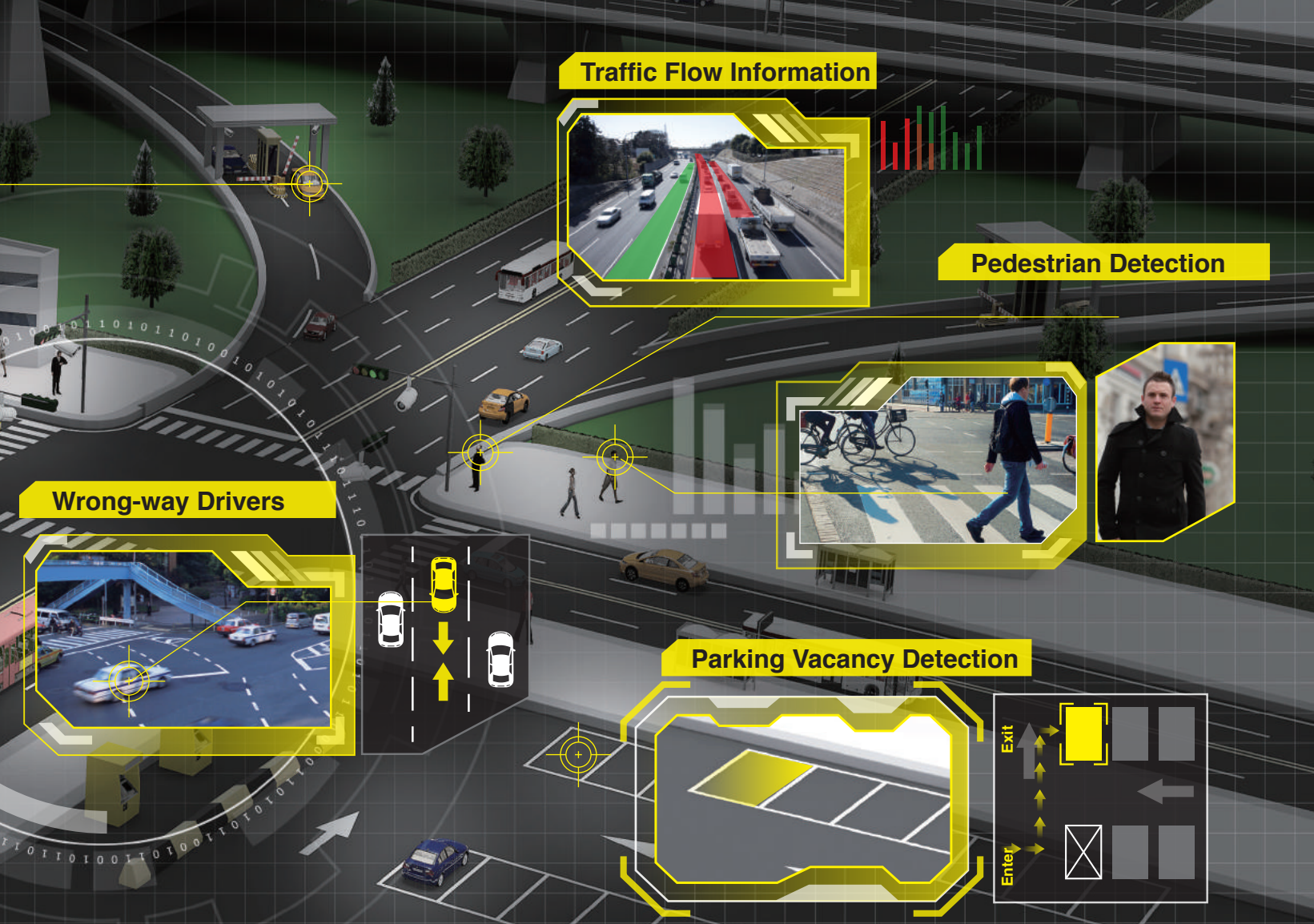- RFID Receiver SDK

Traffic Information System

In Real-time Traffic Information Display System, Advantech's new video platform with Intelligent Video Analytic Technology enables real-time response and brings the system from purely data collection and delivery to a whole new level.
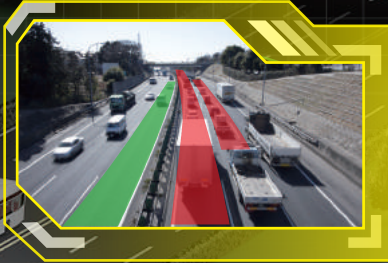
ITA-3630VD

- Intel Core i5 (Ivy)
- 32GB mSATA
- 4CH 1080p/120FPS
- 1CH with 4 Lands Detection
- Traffic Flow
- Vehicle Classification
- Car Speed Detection
- Occupancy

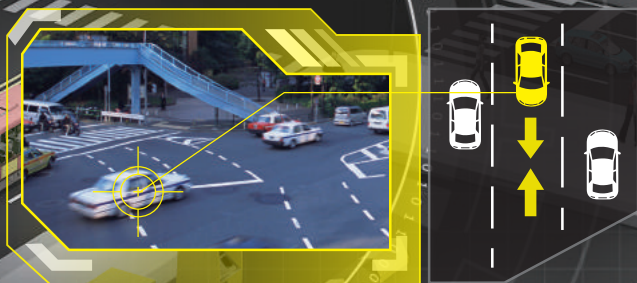* LPR IVA currently supports China, Malaysia, Taiwan only
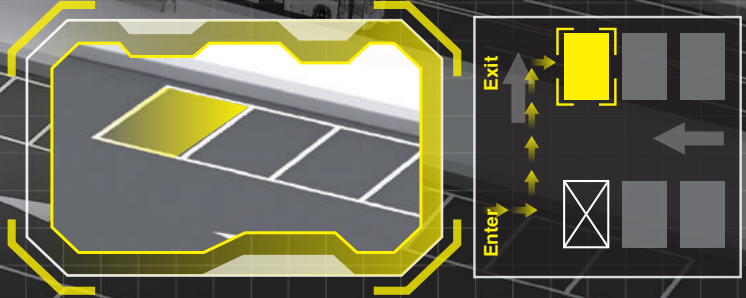
Traffic Flow Information

Pedestrian Detection

Wrong-way Drivers

Parking Vacancy Detection

Exit

Enter

Traffic Management Surveillance System

Traffic management surveillance System with intelligent video solutions improves the traffic monitoring system by automating video analysis and security alerts.

Intelligent Parking

An intelligent parking management solution can automatically recognize vehicle license plates, detect parking vacancy, assign available parking slot, and can also enable Intelligent vehicle search function to assist users efficiently.

ARK-5420ID

- Intel Core i5 (Ivy)
- 32 GB mSATA
- BNC/SDI Capture Card
- 8 CH 720P/240FPS
- Pedestrian Detection
- Fallen Objects
- Wrong-way Drivers
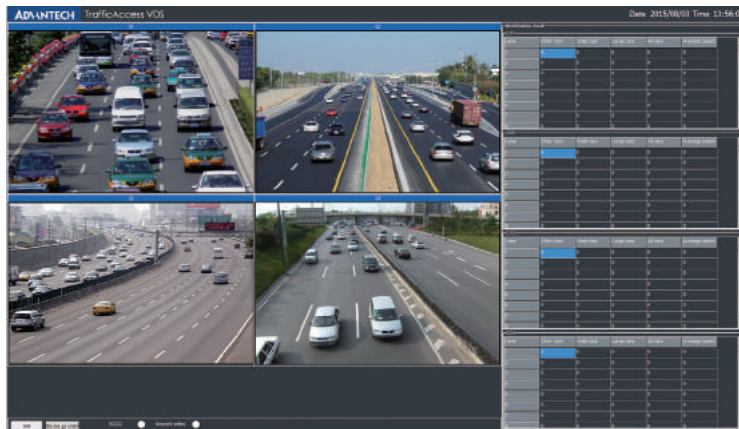- Traffic Congestion

ACP-4000VS

- Intel Core i7 (Ivy)
- 32GB SSD 3TB 3.5" HDD
- 16 CH 1080P/160FPS
- WebAccess+IVS
- LPR IVA*
- Parking Vacancy Detection IVA

TrafficAccess VDS (Vehicle Detection System)

Contemporary management of urban traffic is becoming increasingly complex as traffic congestion continues to rise worldwide. In order to measure traffic in real time and provide useful road statistics, obtaining reliable data is essential. TrafficAccess VDS is an intelligent video analysis system for collecting traffic information, such as vehicle counts, classifications, occupancy, and average speed, by using specific vehicle detection technology.

Typical applications include:
- *Real time traffic data collection*
- *Loop emulation applications*
- *Traffic studies and monitoring*
- *Level of traffic assessment*

Available Models

ARK-1123HVD
1CH IP CAM / 4 Lands

ITA-3630VD
4CH IP CAM / 16 Lands

Input Resolution	D1, 1280x 720, 1920x1080
Maximum Detection Lane per Camera	4 (Height of camera position > 6 Meters)
IVA Function SPEC	Traffic flow ≈ 95% Vehicle classifications≈ 85%±10% Average speed ≈ 85%±10% Occupancy ≈ 90%±5%
Connection Protocol	RS-232/RS-485/GPIO/TCPIP

TrafficAccess IDS (Incident Detection System)

As the world's population grows, traffic congestion and accidents continue to rise. TrafficAccess IDS is a video-based incident detection system that uses existing cameras to identify incidents and accidents on roadways and rapidly notify traffic control centers.

The TrafficAccess IDS system emits a notification alarm (audio and visual) immediately after an incident has occurred (within seconds), even before the consequences of an incident can be observed using traditional monitoring methods.

Available Models

ARK-2121SID
4CH IVA

ARK-5420ID
8CH IVA

Input Resolution	D1, 1280x 720, 1920x1080
IVA Functions SPEC	Pedestrian Detection Fallen objects Wrong-way drivers Fire and smoke Vehicles changing lane Stopped vehicles
Event Trigger I/O	Level 0 – 10 Trigger out: GPIO, TCP/IP
Connection Protocol	RS-232/RS-485/GPIO/TCPIP

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