VA Cam

The VA Cam platform integrates camera-technology with a CPU and communication technology dedicated to running Vision Analytic (VA) software locally. The platform comes with a range of VA applications but is open for third-parties to install their own VA software. The VA Cam is made for areas with low-medium bandwidth (non-fibre) connectivity in which near real-time response demands are present. VA Cam is deployed in time-critical domains, including traffic enforcement, surveillance and tolling.

Features

Powerful edge device
Utilising the latest Intel CPUs to deliver server performance in a compact IP66 camera case, supporting CPU-hungry apps.

Highly configurable software
The integrated VA Workflow Manager & VA Filter software provides users with the ability to assign task priorities and reduce unnecessary processing where possible.

Versatile, modular hardware
The range of hardware components ensure a best-fit match for any application.

4G & Wi-Fi as standard
4G and Wi-Fi routers provide the user with the best possible bandwidth.

Advantages

Multifunctionality
The VA Workflow Manager provides the framework for VA plugins to run simultaneously, seamlessly.

Future proof
Need an upgrade? The modular hardware feature allows users to upgrade individual software and hardware components. Software updates can be done "over the air".
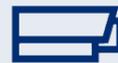
Standalone system
Rural area, no fibre connectivity? No problem. Combining powerful edge computing with 4G/Wi-Fi enables VA Cams to be installed without the need for installing fibre connections.

Cost-effective
Standardised industrial grade components provide the best quality at the best prices.

The VA Platform

Hardware
VA Cam hardware is streamlined to work with ARS T&TT back-office products. The cameras are also easily configured to work with any third-party back-office software applications.

Software
The VA Cam operates on an industrial grade version of Windows 10 IoT. ARS T&TT's VA software provider, Scapeye, offers a wide range of vision analytic software, and comprehensive back-office products are supplied by ARS T&TT.

Cloud Services
We offer a variety of cloud-based services on a 'pay as you go' basis. With our cloud services, scaling solutions to meet demand has never been easier.

ARS T&TT's VA Cam Applications

- Average speed enforcement (**NMi** certified)
- Environmental zone enforcement
- Access identification and enforcement
- Bus lane enforcement
- Red light enforcement
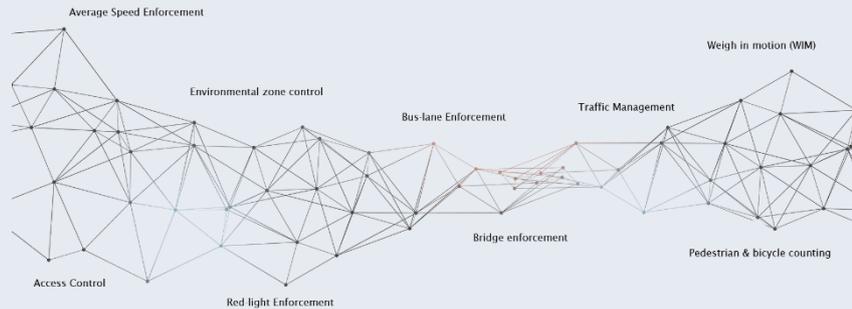- Overweight vehicle enforcement

Scapeye Vision Analytic Products

- Stopped vehicle detection
- Virtual loops
- Illegal lane change detection
- Automatic Number Plate Recognition
- Vehicle counting/classification
- Pedestrian/cyclists counting
- Queue detection

VA Cam configuration examples	A	B	C
Primary camera resolution	1936 (H) ×1216 (V)	1280 (H) × 960 (V)	1280 (H) x 720 (V)
Overview IP camera		Optional [2MP, colour]	
Max frame rate	50 FPS	35 FPS	25 FPS
Triggering	Virtual loop (Scapeye)	Free-flow	
Lens (primary)	25mm (C-Mount)	16mm (C-Mount)	18x motorized zoom
Detection speed	300km/h	250km/h	160km/h
IR flasher output (strobe)	1800W (external)	1200W (external)	250W (internal)
Processor	Intel i5 quadcore	Intel i3 quadcore	Intel Celeron
Storage capacity SSD	500 GB	250 GB	120 GB
Optimal ANPR range	6 m– 24 m		2m – 30 m
IP rating (weatherproof)		IP66	
SDK/API enabled		Both (standard)	
4G/GPS enabled		Both (standard)	
Remote access		Yes (HTTP)	
Operating temperature	-30°C : + 60 °C	-30°C : + 60 °C	-35°C : + 70 °C
Power supply		9-36V DC	
Timestamp accuracy	<1ms (dual-crystal)	GPS/NTP accuracy	

One Platform - Many Solutions

VA Cam eliminates the need to have multiple systems in place to meet the requirements of different applications. Whether you are running a smart city, cracking down on crime or combatting air pollution, the VA Cam is a universal tool to meet the growing demands of customers globally.

VA Values

At the core of VA Cam lays strong socioeconomic values. In a third of all road traffic fatalities globally, speeding was a contributing factor and costs a nation's economy between 2-4% GDP. Worldwide, air pollution is recognised as the single greatest cause of death claiming some 7 million lives per year. VA is at the forefront of combatting the adverse effects associated with our society's growing demand for transportation. VA promotes sustainability through increased road safety, reduced environmental impact and improved quality of life for all.

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