JENOPTIK

VECTOR

Traffic technology solutions to improve roads, journeys and communities

VECTOR sees everything.

Cutting edge design allows number plates to be captured and read across two lanes in the most challenging conditions.

VECTOR combines decades of ANPR experience into a single, highly capable and compact integrated unit. Two high resolution cameras provide ANPR and scene overview images, including day/night mode allowing capture on a completely dark road. Images can be transferred via a wide range of communications media, or stored on local high capacity memory. A GPS clock, compass, accelerometer and two light sensors will allow VECTOR to dynamically adapt to a changing operational environment, supporting even the most challenging enforcement applications.

VECTOR auto-detects vehicles as they pass through the field of view, interrogating every frame image captured by the camera. Each vehicle number plate is tracked through the field of view, covering up to two lanes of traffic and flows in opposite directions. This provides an extremely robust way of locating number plates and provides a measure of vehicle speed.

VECTOR Applications
VECTOR provides a common platform for multiple ANPR applications:

- Police ANPR
- Civil Enforcement
- Tolling
- Journey Time Measurement
- Speed Enforcement
- Access Control
- Congestion Charging
- Security Cordons
- Parking Management

Integrated Intelligent ANPR Camera

Following each plate read an evidential record is created for the vehicles comprising data and images. Data includes the Vehicle Registration Number (VRN), read confidence, time, date and camera location. The images include a plate patch and one of more overview images. Data can be encrypted using the latest standards, stored locally, in case of communications failure, and send with the plate patch via data or wireless network. The corresponding evidential; record for vehicles of interest can then be transmitted if, and when required.

VECTOR - Ease of Use

Jenoptik have designed VECTOR to be as simple to install, configure and operate as possible. Combined with the cameras technical capability, this delivers powerful solutions that can be rapidly implemented.

Installation: The VECTOR can be mounted on a wide variety of fixtures, from traffic signals and street lighting columns to gantries and bridges. VECTOR can operate with a wide angular offset, allowing installation some distance away from the monitored lane. A range of mounting fixtures, including a 3 axis adjustable bracket allows the camera to be rapidly installed and prepared for operation. A single cable is used for power, data and video, with no requirement for an additional roadside cabinet.

Configuration: VECTOR can be simply configured through a simple to use Graphical User Interface (GUI), which leads an installer through the key stages needed to make a camera operational. There is no need to programme complex routines; the step-by-step GUI gets the camera working, fast.

Operation: Once VECTOR is powered up and capturing data, it will automatically monitor its performance and the environment around it. Adjustments will automatically be made if ambient lighting is too high or low, or if it is moving too much through vibration. When plate reads fall below a threshold value, an alert can be sent to the operator. Remote monitoring via WLAN, 3G or ADSL allows the camera to be viewed without the need for physical access. **In short VECTOR provides intelligent operation.**

VECTOR Specification

ANPR Monochrome Camera & Overview Day/ Night Mode Camera
Resolution: 1280H 1024V
Lens to Object (options): 15m, 21m, 30m
Field of View: Depends on lens, single & twin lane monitoring

VECTOR works in all weather and lighting conditions and is able to read most countries' plates at maximum vehicle speeds.

VECTOR can be configured to read characters in the formats issued by almost all countries, with software licenses available for countries with known number plate syntaxes, including more challenging number plates such as Arabic and Cyrillic.

VECTOR works in all weather and lighting conditions and is able to read plates at high vehicle speeds, so is suitable for use where vehicles are stationary or travelling on high speed roads.

VECTOR read rates have been tested in the most challenging ANPR applications and it has achieved the UK's NASP standard.

Day/Night Mode - When lighting levels drop below a set threshold, VECTOR can automatically switch to 'night' mode if required. This optimises the camera for low light conditions, allowing clear mono-chrome images to be captured. A wide range of illumination types can be used.

Graphical User Interface - The VECTOR ANPR GUI allows for rapid, effective configuration of the camera set-up. This intuitive interface guides both new and experienced users through the optimum setup configuration for the camera.

Main Features
Illumination: Controlled pulse infra-red LED, 850nm
Processor : Qseven processor board
Communications: Wired LAN 10/100 baseT Ethernet connection via primary camera connector, 4G*/3G/GPRS/GSM via internal wireless module to externally mounted camera antenna (*some variants') WLAN (WiFi) connection (optional)
Physical: 2.9kg (excluding mounting bracket) Dimensions with sunshield: H-125mm, W-168mm, L—192mm
Environmental: -30°C to +60°C operational temperature range (80% humidity above +20°C)
Electrical: 48 V DC to camera, 230V AC , range 90-264VAC to column box PSU, 25W typical power consumption.

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