JENOPTIK

VECTOR-Z

Traffic technology solutions to improve roads, journeys and communities

VECTOR-Z Applications

VECTOR-Z further builds on the capabilities of the proven VECTOR platform, in applications such as:

- Re-locatable ANPR
- Civil Enforcement
- Tolling
- Journey Time Measurement
- Access Control
- Security Cordons
- Parking Management

VECTOR–Z sees even more.

High resolution and superior motorised zoom lenses result in our most powerful and flexible ANPR camera ever.

VECTOR-Z offers a more flexible, enhanced version of the VECTOR ANPR camera, through the addition of two motorised zoom lenses, remote control focus and high resolution sensors. This means that the camera benefits from the reliable VECTOR platform and number plate reading software, whilst allowing it to be deployed more flexibly and rapidly. The motorised lenses allow different operating distances and fields of view to be quickly set up and focussed, whilst the high resolution ensures excellent images over a wide field of view.

VECTOR-Z auto-detects vehicles as they pass through the field of view, interrogating every image captured by the camera. Vehicle number plates are tracked through the field of view, covering two full width lanes of traffic and even traffic travelling in opposite directions simultaneously.

Integrated Intelligent ANPR Camera

For each number plate capture, a record is created for the vehicle comprising of data and images. Data includes the Vehicle Registration Number (VRN), read confidence, time, date, country identifier and camera location..

The images include a plate patch and one of more overview or scene images. Images can be compressed and sent in small file sizes to reduce data usage, particularly when using mobile or cellular communications.

Data can be encrypted using the latest standards, stored locally, in case of communications failure, and/or sent with the plate patch via a wide range of communications media. The corresponding overview image for vehicles of interest can then be transmitted on demand.

VECTOR-Z Ease of Use

Jenoptik have designed VECTOR-Z 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-Z can be mounted on a wide variety of fixtures, from traffic signals and street lighting columns to gantries and bridges. VECTOR-Z 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-Z 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-Z 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 –Z provides intelligent operation.

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

VECTOR-Z 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. The IR filter can be automatically removed in countries or applications where non-retro reflective plates are used.

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

VECTOR Specification

ANPR Monochrome Camera & Overview Day/Night Mode Camera
Resolution: 1600H 1024V
Lens to Object (options): 10m- 30m variable motorised zoom
Field of View: Full two lane coverage
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
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.

Graphical User Interface – The VECTOR-Z 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.

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