



MORE LIGHT

VECTOR SR

Non-invasive digital red light and spot speed enforcement.

Non-invasive red light and spot speed enforcement

Overview

VECTOR SR is a **Home Office Type Approved**, fully self-contained traffic enforcement system, capable of multiple applications:

- Red light enforcement
- Speed-on-green
- Standalone spot speed
- Level crossing enforcement (ongoing development)

Technical benefits

Non-invasive radar detection

- No in-road loops or piezos to maintain
- No conspicuous road markings

Optical traffic signal monitoring (red light)

- No physical connection to traffic signals
- Type approved for any signal head type

Spot speed accuracy

- Tracking radar reports speed at +/- 2% accuracy

Multi-lane coverage

- Up to three lanes continuous lanes

Fully integrated and self-contained

- Number plate IR illumination
- Wireless and wired LAN connectivity

Video and photo evidential files

- High resolution overview pictures of violations
- 10 second video clip

Low lifetime costs

- Minimal road maintenance
- Low on-going costs

Flexibility with install

- Can utilise existing street furniture
- Passively safe column option
- Tilt down column for ease of maintenance
- Compact and lightweight at less than 8kg
- Low power, typically 30W consumption

Full turn-key setup

- No customer staff involved

Vandal resistance

- Elevated mounting impedes vandalism
- No cantilever arms

Red light enforcement

VECTOR SR operates in a “non-invasive” way, removing the need for loops or strips in the junction’s road surface. The camera monitors the signal heads meaning there is no need to physically connect the traffic lights with the enforcement system. This is the only solution of this type to have gained

approval and works equally well with all signal head types; whether they utilise traditional incandescent or modern LED bulbs.

Spot speed capability

VECTOR SR uses non-contact radar detection for spot speed enforcement. An intelligent virtual grid for secondary speed verification means the traditional ‘tiger teeth’ road markings are not needed on the road surface.

Rich ITS data gathering

Based around the proven VECTOR ANPR camera platform, VECTOR SR can unobtrusively gather rich ITS data for all passing vehicles, both for civil and security/policing applications (depending upon the relevant approvals):

- Immediate use for traffic information, journey time or police alerts etc.
- Statistical gathering, origin/destination, traffic volumes, usage patterns etc.

VECTOR SR is capable of capturing enforcement images in all operational environments, detecting violations 24/7 and in all weathers.

IR illumination

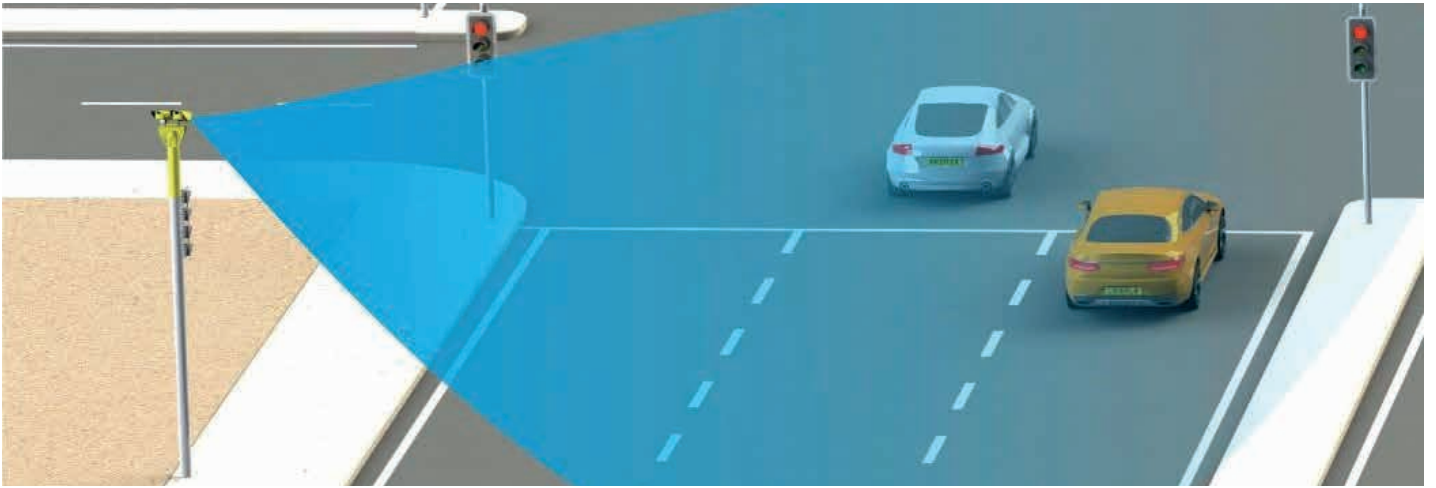
At dark sites, the unique, patented VECTOR IR (infra-red) lamp units can be used to unobtrusively flood the scene with non-dazzling illumination.

- Continuous non-human visible illumination
- No distracting flash
- No light pollution on dark roads
- Synchronous pulsed illumination to camera for low power consumption
- Provides illumination for optional offence clips
- Can be located on camera columns to minimise infrastructure requirements
- Compact and lightweight at less than 3kg each
- Low power, typically 20W consumption each
- Elevated mounting impedes vandalism

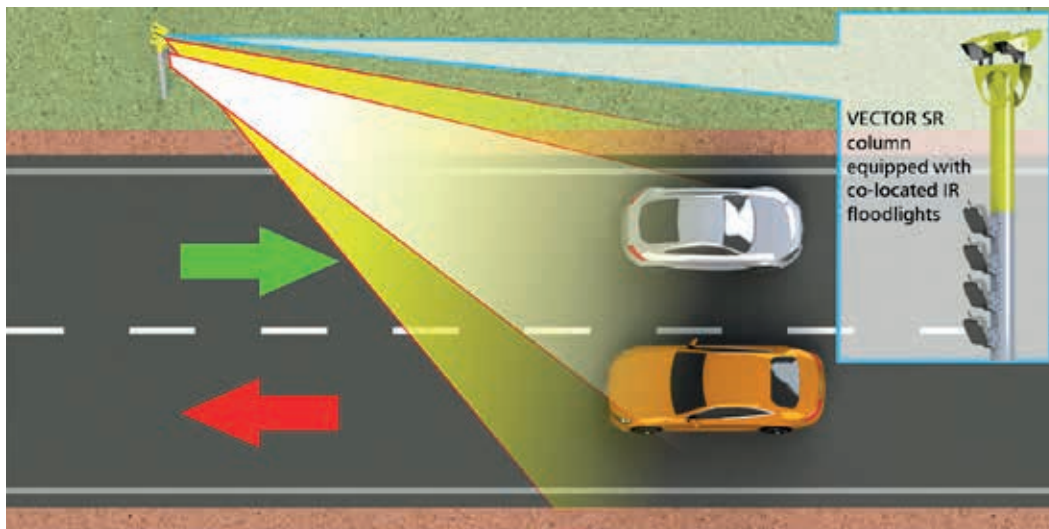


Image quality examples

VECTOR SR



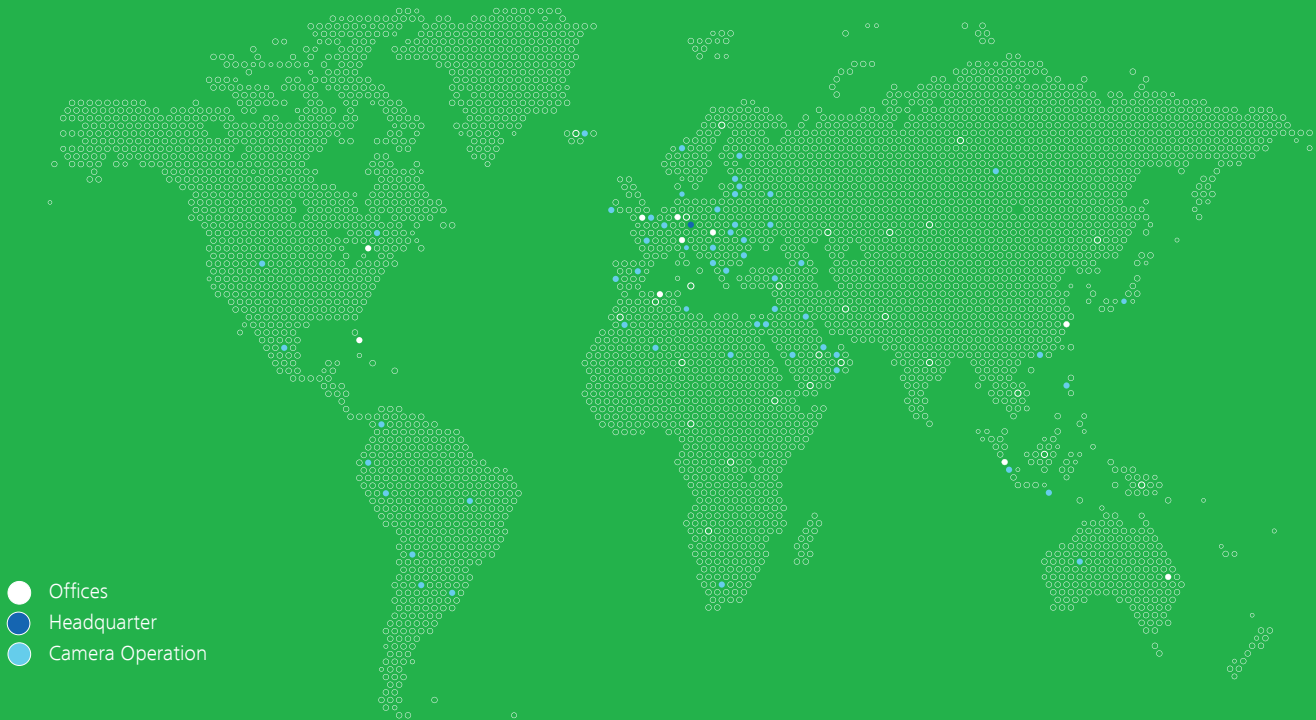
IR illumination - bi-directional monitoring



Technical information

| Feature | Details |
|-------------------------|--|
| Cameras | Intelligent ANPR camera with 3.2MP mono (ANPR) & 3.2MP colour (context) image sensors, remote control motorised zoom and focus lenses. Up to 128GB on-board storage |
| Radar detection | 3D radar sensor for stop line detection, spot speed and speed-on-green |
| Lane coverage | Up to three standard width lanes (3.75m lane width) |
| Speed measurement range | 20kph to 300kph (12.5mph to 186mph) |
| Illumination | Controlled pulse infra red LEDs (850nm). Optional scene lighting with VECTOR IR floodlight |
| Evidence gathering | ANPR plate reads, still image & video clips, basic vehicle classification, all with GPS time stamping |
| Communication | Fully integrated: WWAN (3G & 4G), WiFi & wired LAN |
| Installation | 25-35m from stop line, 4-6m installed height, up to 12.8m lane offset from furthest lane centreline |
| Physical | Camera: 370mm (L) x 230mm (W) x 125mm (H), 3.5kg, supplied with three-axis bracket Radar: 370mm (L) x 230mm (W) x 140mm (H), 2.5kg, supplied with two-axis mounting bracket |
| Environmental | IP67, -30°C to + 60°C operating temperature range, -30°C to + 70°C storage temperature range |
| Power | 48VDC or 90-240VAC supplied via column box, providing 48VDC to camera unit. 25W typical power consumption |

Jenoptik Light & Safety reserves the right to make changes to the specification and improvements to the product and/or programs herein at any time.



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Jenoptik Light & Safety is based in Monheim near Düsseldorf, Germany and is present around the world. We are your expert partner, with end-to-end technologies for Traffic Law Enforcement and Civil Security. With a presence in more than 80 countries, supported by a strong partner network, we have delivered over 30,000 systems worldwide. Jenoptik's Light & Safety division is a world-leading supplier, with products and services constantly evolving to help make roads, journeys and communities safer around the globe.



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