

Serious about ANPR. Serious about Service.



Key Features:

- » Compact and unobtrusive
- » High performance
- » Easy to install and integrate
- » Excellent low light performance
- » Certified to all relevant UK standards



The V1 series camera mounted in front of the rear-view mirror of a vehicle.

A miniature colour camera for mounting inside vehicles

The V1 camera is a miniature colour camera designed to be mounted inside a mobile surveillance or ANPR vehicle. It is NPIA certified and complies with all current UK MOT regulations and UK VOSA standards. AES Spec 5 Issue 10 certification and conformance ensures that V1 camera is suitable for use with UHF Tetra systems without interference.



The camera is attached to the vehicle via a low profile stainless steel and aluminium bracket; the camera casing is manufactured from 6082-T6 aerospace grade aluminium for an extremely tough and durable finish. The result is a lightweight camera ideally suited for mobile surveillance and ANPR operations. The small size of the V1 camera means it does not obstruct any part of the driver's vision; it is designed to sit directly in front of the rear-view mirror - a key safety feature that meets UK MOT and VOSA requirements. Larger cameras have proven unsafe and effectively block the driver's full field of view. Due to this unobtrusive design, the V1 camera is the ideal choice for an in-vehicle surveillance and ANPR camera.

The V1 series camera has a 10x zoom capability. This feature means the V1 camera's field of view can be rapidly optimised to suit different ANPR capture requirements. The high resolution CCD allows a much 'sharper' picture to be processed. Combining the high quality of the V1 camera with NDI-RS Talon ANPR software results in outstanding accuracy and read rates - typically achieved when using more expensive externally mounted infrared cameras. The camera has an outstanding low light capability and during extensive trials vehicle headlights provided sufficient lighting and scene illumination for night time ANPR operations.

The camera can be controlled by the operator through a standard RS232 command control protocol or a software GUI interface available via a Mobile Data Terminal (MDT) touch screen. The camera is manually adjusted by the operator to meet variable ANPR requirements for each vehicle. The V1 camera is easy to install and maintain due to its bespoke design and flexibility. The camera's connector is compatible with existing systems for easy upgrade. The camera can work with most type approved speed enforcement systems - please contact NDI Recognition Systems for a list of compatible approved systems.

NDI Recognition Systems

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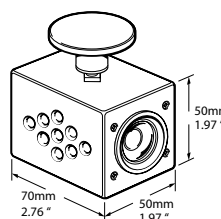
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Camera Specifications

Camera Model:	ND-V110C Colour Camera
Image Sensor:	1/4 Type EX-view HAD CCD
Picture Elements:	FCB-IX11AP: Approx. 440K Pixels (752(H) x 582 (V))
Horizontal Resolution:	PAL: 460 TV lines (WIDE end)
Lens:	10 x Zoom F= 4.2mm(WIDE) to 42 mm; (TELE), F1.8 to F2.9 Variable zoom speed Optical WIDE/Optical TELE 1.8 s Optical WIDE/Digital TELE 3.5 s Digital WIDE/Digital TELE 1.7 s
Digital Zoom:	4 x (40 x with optical zoom)
Angle of view (H):	46 degree (WIDE end) to 4.6 degree (TELE end)
Min. working distance:	10 mm (WIDE end), 1000 mm (TELE end)
Sync System:	Internal
Min. Illumination:	1.5 lux (F1.8, 1/50s (PAL))
Recommended illumination:	100 to 100,000 lux
S/N ratio:	50 dB or more
Back light compensation:	ON/OFF
Electronic Shutter Speed:	1/1 to 1/10,000 s (22 steps)
White balance:	AUTO, ATW, Indoor, Outdoor, One Push WB, Manual WB
Gain:	Auto/Manual (-3 to 28 dB. 2dB steps)
Iris control:	16 steps
Focus:	Auto (H,L), On-Push AF, Manual, Infinity Interval AF, Zoom Trigger AF
Preset:	6 positions
Serial Interface:	Sony VISCA protocol (TTL/RS-232C signal level) 9.6Kbps, 19.2 Kbps, 38.4 Kbps Stop bit, 1/2 bit (switchable) VBS: 1.0 Vp-p (sync negative)
Video Output:	
Storage Temperature/Humidity:	-20° to 60°C /20 to 95%
Operating temperature/humidity:	0° to 50°C /20 to 80%
Power requirements/Power Consumption:	9 to 14 V DC/1.6 W (2.0 W with active motors)
Weight:	300g
Dimensions:	70mm x 50mm x 50mm (height with bracket 82mm) 2.76" x 1.97" x 1.97" (height with bracket 3.23")
Accreditations and Approvals:	AES Spec 5 Issue 10 from the NPIA Automotive Directive 2004/104/EC (E-Marked)



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