V2 series Mobile ALPR Camera

Securing Communities - Saving Lives.

Effortless Controls

Camera controls can be manipulated through a simple Graphical User Interface (GUI) on a connected computer.

A high-performance infrared image capture system designed for vehicle based operations

Due to its small and unobtrusive size, the V2 series Automated License Plate Recognition (ALPR) camera can be easily mounted on the top of a vehicle or installed elsewhere for covert applications. In its dual configuration, the V2 Series camera uses two high- performance 10x optical zoom camera modules, one for ALPR infrared capture plate and one for high quality overview imaging.

The optical zoom capability gives users great flexibility to adapt the camera for their specific operational requirements, e.g. parking lot coverage to high-speed motorway operations. In addition, this capability allows the V2 series camera to overcome the worldwide variation in license plate size. Smaller license plates need a narrower field of view. In order to accommodate different character colors globally a number of illuminator wavelength options can be specified at the time of order — 810, 870 or 940nm are available.

The V2 series camera incorporates advanced sequential shuttering synchronized to a high-power infrared flash. Depending on the camera wavelength, capture distances can be extended to 65 feet, if required.
This contributes to the V2 series camera's outstanding performance on retro reflective license plates – it overcomes the problem of high variation in the retro reflective properties of each individual license plate. Older license plates are often more oxidized and require higher levels of infrared exposure, while newer plates need less illumination. The constantly varying shutter speed means that no matter how fast the plate passes through the field of view, a sharp image can always be obtained for the recognition engine to process. In mobile operations there can be massive variation in capture speed as the ALPR vehicle may be static — or traveling at high speed.

The monochrome ALPR camera module within the V2 series camera incorporates a band pass filter. This element enables the elimination of unwanted infrared encountered in very bright sunlight and from the glare of oncoming vehicle headlights.

In terms of operator control this is achieved through a simple GUI interface. Images taken by the camera are sent along a video cable to the computer terminal and displayed in the front of the vehicle.

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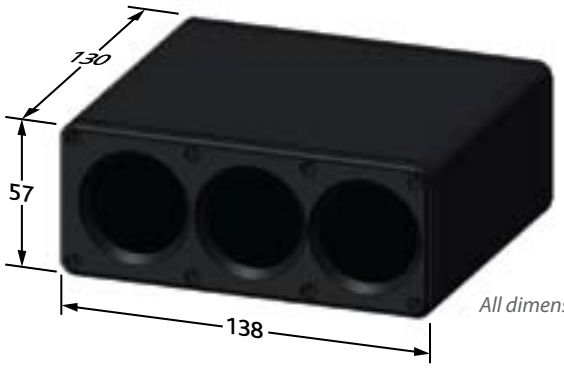
Camera Specifications

Models:	ND-V220D, ND-V230DM (Mobile), ND-V230DF (Fixed)
Dual Configuration:	Single illuminator Single monochrome ALPR camera Single color camera for overview imaging
Single Configuration:	Single illuminator Single monochrome ALPR camera
Options:	Illuminator wavelength: 810nm (most visible), 870nm (barely visible), 940nm (invisible)
Image Sensor:	1/4 Type EX-view HAD CCD
Horizontal Resolution:	NTSC: 470 TV lines PAL: 460 TV lines
Lens:	10 x Zoom F= 4.2mm (WIDE) to 42 mm (TELE), F1.8 to F2.9 Variable zoom speed
Angle of View (H):	46 degree (WIDE end) to 4.6 degree (TELE end)
Sync System:	Internal
S/N Ratio:	50 dB or more
Back Light Compensation:	ON/OFF
Electronic Shutter Speed:	1/50, to 1/10000 (1/60 to 1/10000 for IR camera)
Gain:	Auto/Manual (-3 to 28 dB. 2dB steps)
Aperture Control:	16 steps
Preset:	6 positions
Video Output:	VBS: 1.0 Vp-p (sync negative)
IR Illuminator Options:	810nm, 870nm, 940nm
Communications:	Bi directional RS 232 communications. Allows settings to be downloaded to the camera and uploaded to the computer.
Cable:	RS232, power and video
Operating Voltage:	9 to 16 V (DC Only)
Power Consumption:	8 W (Average)
Dimensions:	Camera: H-57mm X W–138mm X D-130mm Camera height with bracket: 78mm
Weight:	1.4 KG
Environmental:	Sealing: IP68
Storage Temperature/Humidity:	-20° to +60°C /20 to 95%
Operating Temperature/Humidity:	-20° to +50°C /20 to 80%



All dimensions are in mm.

Due to a policy of continued product development, NDI Recognition Systems reserves the right to alter or amend any published specifications without notice.

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