

V220

Portable ALPR Camera

Intelligent ALPR Solutions.



Key Features

- » Infrared “monochrome” ALPR camera
- » Day/night color camera for overview imaging
- » Powerful zoom capability
- » Compact and lightweight design
- » Sequential shuttering for extended dynamic range
- » User-friendly controls and set-up

Applications

- » Mobile ALPR (covert and overt)
- » Fixed site ALPR
- » Access Control
- » Civil Enforcement
- » Car Park Management
- » Road Tolling
- » Journey Time Analysis

A high performance Automated License Plate Recognition camera for day/night vehicle-based applications

The V220 is a compact mobile camera designed primarily for vehicle-based ALPR operations. The camera can be installed on top of a law enforcement vehicle or other surveillance vehicle or it can be discreetly mounted inside for covert applications.

The V220 camera uses two high-performance 10x optical zoom modules with a day/night function for extra high-quality overview imaging, even in poor lighting conditions and a dedicated infrared camera for high quality license plate capture. The camera utilizes a Super HAD CCD II sensor for extremely high sensitivity, providing the best results in all weather and lighting conditions.

Zoom Capability and Wide Field of View. One of the unique functions of the V220 camera is the powerful and versatile zoom capability. The 10x optical zoom camera modules in the V220 give the user great flexibility to adapt a camera for their specific site requirements. No more relensing or guess work – just a simple and intuitive Graphical User Interface (GUI) which can be loaded onto any standard PC connected to the camera. With zoomable color and monochrome camera modules the V220 camera can easily achieve a 50 foot capture distance. Any requirement beyond 50 feet, please use the high performance C3 camera from our product range.

Day/Night function. A principal feature of the V220 camera is the day/night function. The high performance color camera module with the latest Super HAD CCD II sensor has the ability to switch over to night mode in poor light and at night. The day/night camera module provides optimal sensitivity for both day and night time ALPR operations resulting in a significant improvement in the image quality under limited lighting conditions. In low light conditions the infrared filter is automatically removed for increased sensitivity enabling the color module to operate in Black and White mode as low as 0.01lx. The monochrome ALPR camera module incorporates a band pass filter which eliminates the unwanted infrared encountered in very bright sunlight and from the glare of oncoming vehicle headlights.

The V220 mobile camera provides a very formidable solution for ALPR operations around the clock.

NDI Recognition Systems

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Camera Specifications

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:	1/3 Type SUPER HAD CCD II
Horizontal Resolution:	PAL: 530 TV lines (WIDE end)
Lens:	10 x Zoom F= 5.1mm (WIDE) to 51 mm (TELE), F1.8 to F2.1 Variable zoom speed
Angle of View (H):	52° (wide end) to 5.4° (tele end)
Sync System:	Internal
S/N Ratio:	50 dB
Back Light Compensation:	ON/OFF
Electronic Shutter Speed:	1/50, to 1/10000 (1/1000 to 1/10000 for IR camera)
Gain:	Auto/Manual (-3 to 28 dB. 2dB steps)
Aperture Control:	16 steps (F1.8 to F22)
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 15 V (DC Only)
Power Consumption:	8 W (typical)
Dimensions:	Camera: H-59.4mm X W-145mm X D-129mm
Weight:	1.450 KG
Environmental:	Sealing: IP68
Storage Temperature/Humidity:	-20° to +60°C
Operating Temperature/Humidity:	0° to +50°C
Accreditations and Approvals:	NPIA Spec 5, FCC, CE



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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