

C320

ANPR / ALPR Camera

Serious about ANPR. Serious about Service.



Key Features

- » Compact and lightweight design
- » High reliability and read accuracy
- » High resolution optical zoom
- » Versatile configuration and illumination options
- » High environmental specification for operation in all climates
- » Compatible with CCTV equipment

Read plates day and night, even in the most demanding conditions

The C320 Automated Number / License Plate Recognition (ANPR / ALPR) camera is designed for versatile operation and deployment as a fixed ANPR / ALPR camera. The C320 is available with a wide range of camera and infrared (IR) illumination options offering unmatched flexibility in any fixed site ANPR / ALPR application.

The C320's use of dual high-resolution optical zoom cameras (both for infrared plate capture and color contextual imaging) allow it to be rapidly optimized to suit the differing plate and environmental conditions that exist within a fixed camera ANPR / ALPR network. The zoom function and other camera settings are easily managed via bi-directional communication protocol and an intuitive



Graphical User Interface (GUI) allowing for easy set-up and maintenance. The C320 employs a number of features, such as improved processing gain and narrow band IR filtering, to mitigate traditional ANPR / ALPR issues with bright sunlight and headlight blooming at night.

Globally, number / license plates have widely differing characteristics. The C320 is available with a variety of different IR wavelength illuminators to optimize performance for the region; NDI will advise on the proper wavelength for your deployment. Additionally, the C320's zoom functionality enables the camera's field of view to be optimized to local plate sizes. The C320 has a range of up to 150 feet (when configured with dual illuminators, and subject to wavelength). Regardless of geography or deployment location, the C320 is prepared for the challenge.

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C3 Series Image Capture System Configurations

Camera Models:	ND-C320D (Dual), ND-C320S (Single), ND-C320LR (Long Range)
Single Lens Configuration:	Single illuminator • Single monochrome ANPR / ALPR camera
Dual Lens Configuration:	Single illuminator • Single monochrome ANPR / ALPR camera • Single color ANPR / ALPR camera
Long Range Configuration:	Two illuminators • Single monochrome ANPR / ALPR camera

Camera Specifications

Monochrome Camera Model

Lens:	18X Zoom f=4.1 mm (wide) to 3.8 mm (tele), F1.4 to F3.0
Signal System:	EIA/CCIR
Image Sensor:	Exview HAD CCD
Angle of View (H):	48 degree (wide end) to 2.7 degree (tele end)
S/N Ratio:	More than 50 dB
Electronic Shutter:	EIA1/500 to 1/10,000s, 8 steps CCIR 1/600 to 1/10,000s, 8 steps
Gain:	-3 to 28 dB, 16 dB steps
Video Output:	VBS: 1.0 Vp-p (Sync. negative)
IR Illuminator:	810nm, 850nm, 870nm, 940nm

Color Camera Module

Lens:	18X Zoom f=4.1 mm (wide) to 73.8 mm (tele), F1.4 to F3.0
Signal System:	PAL
Image Sensor:	Exview HAD CCD
Angle of View (H):	48 degree (wide end) to 2.8 degree (tele end)
S/N Ratio:	More than 50 dB
Electronic Shutter:	1/60 to 1/10,000s, 11 steps 1/50 to 1/10,000s, 11 steps
Gain:	Auto / Manual (-3 to 28 dB, 16 dB steps)
Video Output:	VBS: 1.0 Vp-p (Sync. negative)
Minimum Illumination:	0.7lux (F1.4, 1/50 or 1/60, 50IRE) typical
Integrated Light Sensor:	Measures the visible light level

General Information

Communications:	Bi-directional RS 232 communications with PCs. Allows the settings to be downloaded from the camera. Camera settings can be stored off-site and sent to the camera. This eases maintenance and allows a central database to store and retrieve camera settings.
Options:	Illuminator Wavelength: 810nm, 850nm, 870nm, 940nm Standard: PAL Supply: Universal AC/DC, DC Only
Connections:	RS232, power and video, all galvanically isolated.
Mounting Bracket:	Full 3 axis gimballed mount.
Sun Shield:	Available as an option. The use of the sun shield is recommended in environments where the camera is exposed to prolonged periods of solar heating.
Operating Voltage:	9 to 30 V DC - (DC variant only)
Power:	12V AC or 12-30V DC (Universal variant only)
Consumption:	8 W average, 50 W peak
Dimensions (H x W x D):	Camera: 3.54" (90mm) x 7.08" (180mm) x 7.68" (195mm) With Sun Shield: 4.33" (110mm) x 8.28" (210mm) x 9.45" (240mm) Bracket: 3.15" (80mm) height
Weight:	Camera: 4.85 lb (2.2 kg) With Sun Shield: 5.29 lbs (2.4 kg) With Bracket: 5.51 lbs (2.5 kg)
Environmental:	Sealing: IP 68 Wind Loading (mounted on C3 series bracket) - 160 Kph / 45m/s
Temperature:	Storage -4° F to +140° F (-20° C to +60° C) Operational +14° F to +131° F (-10° C to +55° C)
Accreditations:	CE, FCC

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