



# P500 "IRIS" Series

## FIXED ALPR CAMERAS

### High Resolution, Motorized Lens, Dual OCR Camera for Versatile Applications

#### OVERVIEW:

The Neology™ IRIS multi-lane camera is a cost-effective and easy-to-deploy ALPR camera that expands license plate recognition capabilities by providing superior recognition accuracy.

The IRIS camera has simultaneous dual channel OCR (IR and color), a high-quality color overview in low light, and a video streaming functionality in one self-contained environmentally sealed enclosure.

Incorporating a remotely adjustable zoom lens with a wide field of view and long focal range, the IRIS camera is a versatile ALPR solution covering a variety of end user applications. The IRIS camera incorporates a quad core OCR processor providing extra fire-power for faster detection with highly accurate license plate recognition. The camera can detect and read license plates in both the infrared and color overview channels.

This enables the camera to detect and read license plates of variable retro-reflective quality, or that have been deliberately altered. With sufficient ambient lighting, the camera can detect and read entirely non retro-reflective license plates.

#### FEATURES:

- 2K and 2.5K high resolution
- Multi-lane coverage
- Wide range of focal distance
- Motorized lenses in both IR and color overview
- Dual channel OCR (IR and color)
- H264 high-resolution contextual color video streaming
- High-quality color overview in low light situation
- Powerful processing capability with quadcore CPU
- Flexible data storage
- Remotely adjustable zoom, focus, aperture and IR cut filter

#### BENEFITS:

- Cost effective
- Easy to deploy and redeploy
- Superior recognition accuracy in all conditions
- Detect and read license plates of variable retro-reflective quality
- One camera that covers most eventualities as deployed



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The camera is available in two sensor versions. The P520 model will cover one lane of traffic, while the P525 model will cover two adjacent lanes of traffic, based on a standard issue US license plate. The camera can capture distances from 13' to 130'. For the users of the Neology IRIS, this means that one single camera platform can cover most eventualities as deployed.

The IRIS additionally features user configurable H.264 streaming video. This minimizes the need to install a secondary CCTV camera at the same location, reducing overall site cost and installation complexity. It also facilitates ground-truthing and validation of camera performance on a site by site basis. The camera's significantly improved compression means less bandwidth usage for data transmission, including video.

The camera is available in several base options with a choice of IR wavelength, and is supplied with an installer configurable motorized zoom lens to expedite installation and commissioning. The IRIS cameras can also be easily redeployed to other locations, if required. The camera is available with integrated GPS, as well as an optional internal 4G modem and Wi-Fi functionality. On-board Wi-Fi allows configuration of the camera from the street, reducing lift truck and lane closure time.



The IRIS also supports all the existing Neology Technology fixed camera firmware options of ACS, VES-Lite, PIXI, JTMS and UTM, allowing existing BOSS customers to accept incoming ALPR data from the camera. For customers who are facing budget cuts and reductions, the IRIS camera provides a high performance, cost effective fixed and re-deployable ALPR camera solution.

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## SPECIFICATIONS (E & OE)

Dimensions (LxWxH)	13.9 x 10.7 x 7.0 inches (35.3 x 27.2 x 17.8 cm) including hood, excluding optional antennas 9.2 x 9.7 x 5.9 inches (23.3 x 24.7 x 14.9 cm) camera main body only, excluding hood and options
Weight	6.4kg (14.1lb) including hood, excluding brackets
Enclosure	IP67
<b>OPTICAL</b>	
IR resolution	5MP sensor; available in 2064 x 1184 pixels and 2464 x 1280 pixels
Color resolution	5MP sensor; available in 2064 x 1184 pixels and 2464 x 1280 pixels
Lens type	Configurable motorized zoom lenses, 12-50mm
IR camera lens options	Configurable motorized zoom lenses, 12-50mm
Horizontal coverage US	Up to 2 lanes (P525)
Camera working distance US	13 ft to 130 ft
Color in low light	Improved image quality under low light conditions
Integrated illuminator	Effective up to 40 m (131 ft) wavelengths: 740nm, 810nm, 850nm, 940nm factory fit options
Frame rate	50 fps (frames per second) on each channel, 100fps total
Camera inversion	Yes
External illuminator	Opto-isolated output to synchronize an external illuminator.
LEDs	Integrated pulsed illuminator, 28 high power LEDs.
OCR	Dual OCR (IR and Color) ANPR engine on board
<b>ELECTRONIC</b>	
Operating system	Embedded Linux
Video output	H264 encoded video available as RTP streams (RTSP URLs) Hardware MJPEG streaming of the video
CPU	Quadcore 800Mhz RAM 1 GB
Data storage	Two installer accessible SD card sockets available for an increase in data storage in line with customer requirements 32 GB SD cards are available for purchase with the camera, as a package.
<b>COMMUNICATION</b>	
GPS	Integrated GPS (option)
Ethernet communication	Gigabit Ethernet 10/100/1000; max 100m
Wireless communication	4G modem (Option), WiFi (option)
Protocols	UTMC, BOF, PIXI, ACS, JTMS, VES Lite
Integration	Optional integration with DSRC, radar, weigh-in-motion, or ticketing systems
Triggering mechanism	Auto triggering (off plate) plus opto-isolated input triggering, TCP triggering and serial port triggering
Cabling	1) Power & serial cable (includes trigger) 2) Ethernet cable (for wired comms) 3) Auxiliary Interface cable (optional)
Max Cable length	100m (shorter lengths available, contact factory)
Connection type	Binder
Operating temperature	-40°C to +60°C
Data security	<ul style="list-style-type: none"> <li>• Security hardened system</li> <li>• Digital signature</li> <li>• User/connection authentication and session key establishment</li> <li>• Encrypted communications &amp; encrypted Storage</li> <li>• Secure by default, Firewalling</li> </ul>
<b>OTHER</b>	
Power requirement	48VDC (nominal); 40 Watts (typically)
Safety	FCC, RoSH, CE
Design life	8 years
Backward compatibility	Interface adapter box available to ensure the new camera can be used with existing Neology Technology camera installations. A range of mounting hardware available (contact factory)

All specifications subject to change without notice

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