PIPS TECHNOLOGY™
DETECTION INNOVATION

IRIS Multi-Lane ALPR Camera with Dual OCR

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

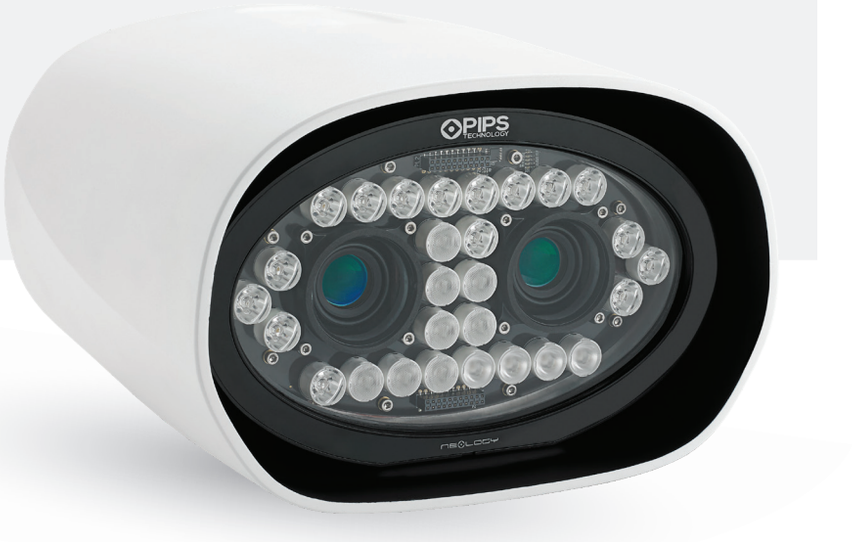
High resolution, motorized lens, dual OCR camera for versatile applications

OVERVIEW:

The PIPS Technology™ 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 PIPS IRIS camera has dual OCR (IR & color), a high-quality color overview in low light and 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 coreOCR 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.



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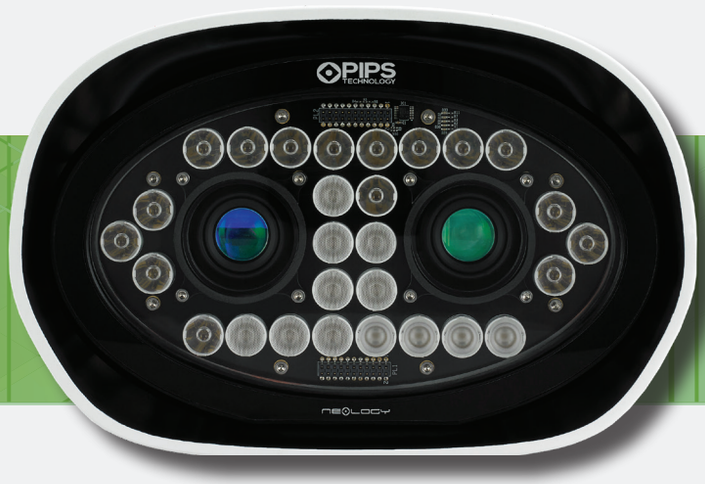
The camera is available in two sensor versions. The P520 model will cover one lane of traffic, while the P525 model will cover two adjacent lanes of traffic, based on a standard issue US license plate. The camera can capture distances from 13' to 130'. For the users of the PIPS IRIS, this means that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

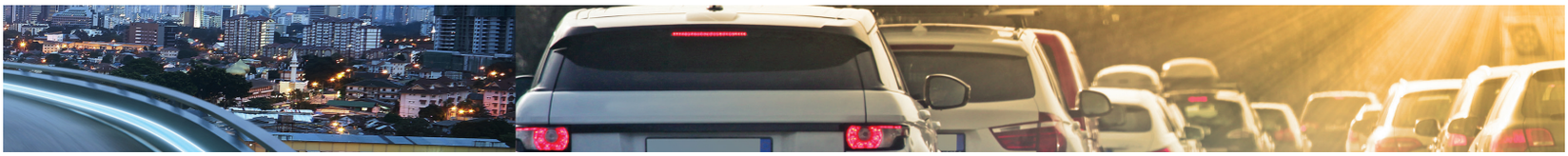
The IRIS additionally features user configurable H.264 streaming video. This minimizes the need to install a secondary CCTV camera at the same location, reducing overall site cost and installation complexity. It also facilitates ground-truthing and validation of camera performance on a site by site basis.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

The camera is available in several base options with either fixed lenses, or an operator configurable motorized zoom lens. With a motorized zoom lens, installation and commissioning of the camera is simplified and expedited. The IRIS cameras can be easily redeployed to other locations, if required. The camera is available with integrated GPS, as well as an optional internal 4G modem, Bluetooth and Wi-Fi functionality. Onboard Wi-Fi allows configuration of the camera from the street, reducing lift truck and lane closure time.



A mounting "adaptor kit" is available to replace existing P382, P392+ and P492 cameras without having to remove existing brackets and cabling, keeping installation and commissioning costs to a minimum.

The IRIS also supports all the existing PIPS Technology fixed camera firmware options of ACS, VES, PIXI, JTMS and UTMC, 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.



SPECIFICATIONS(E&OE):

Dimensions (LxWxH)	12.2 x 10.6 x 7 inches (31 x 27 x 17.7 cm) (9.1" or 23.3 cm H with antenna, including hood) 9.4 x 10 x 6 inches (24 x 25.6 x 15 cm) (8.1" or 20.6 cm H with antenna, excluding hood)
Weight	5.5kg (12.1lb) including hood, excluding brackets (TBC)
Enclosure	IP67
OPTICAL	
IR Resolution	5MP sensor; available in 2064 x 1200 pixels and 2464 x 1200 pixels
Colour Resolution	5MP sensor; available in 2064 x 1200 pixels and 2464 x 1200 pixels
Lens type	Configurable motorized zoom lenses or Fixed C mount
IR Camera Lens options	Wide array of C - Mount lenses (6mm, 8mm, 12mm, 16mm, 20mm, 23mm, 25mm, 30mm, 35mm, 38mm, 50mm)
Horizontal Coverage US	Up to 2 lanes
Max Focal Distance US	13 ft to 130 ft
Colour in Low Light	Improved image quality under low light conditions
Illumination	Effective up to 131 ft (40 m) Wavelengths: 750 nm, 850 nm, 940 nmIllumination adapts to zoom setting
Frame rate	50 fps
Camera Inversion	Yes
Illuminator	Yes (add-on). Opto-isolated output to synchronize with external illuminator
LEDS	24 high power LEDs. 100us max LED flash period, combined with 100us shutter. LED lenses selected to suit camera lens (e.g. 4-10mm lens implies wider LED beamwidths than 12-50mm lens)
OCR	Dual OCR (IR and Colour) ALPR engine on board
ELECTRONIC	
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	4GB built-in (Read only for OS). Two field accessible 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.
COMMUNICATION	
GPS	Integrated GPS
Ethernet Communication	Gigabit speed Cat 6 cable, supports up to 1Gb/s, up to 100 meters
Wireless Communication	4G Modem (in UK version), backward compatible with 3G, 2G and slower
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 but options of 5m, 20m, 50m available too Cables 1 & 2 sold as pairs, Cable 3 sold singly
Connection Type	Binder
Operating Temperature	-40°C to +60°C
Data Security	• Security Hardened System • Digital signature • User/Connection authentication and session key establishment • Evidential Integrity, Data Privacy • Encrypted Communications & Encrypted Storage • Secure by default, Firewalling
OTHER	
Power Requirement	Available in 24VDC (nominal) and 48VDC (nominal); 40 Watts (typically)
Safety	FCC, RoSH, CE
MTBF	5 years HWR MTBF (45,000 hours)
Backward compatibility	Interface adapter box provided to ensure the new camera can be used with existing PIPS Technology camera installations. Simple adapters ensure the new camera can easily be used on existing PIPS Technology camera installation bracketry.

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