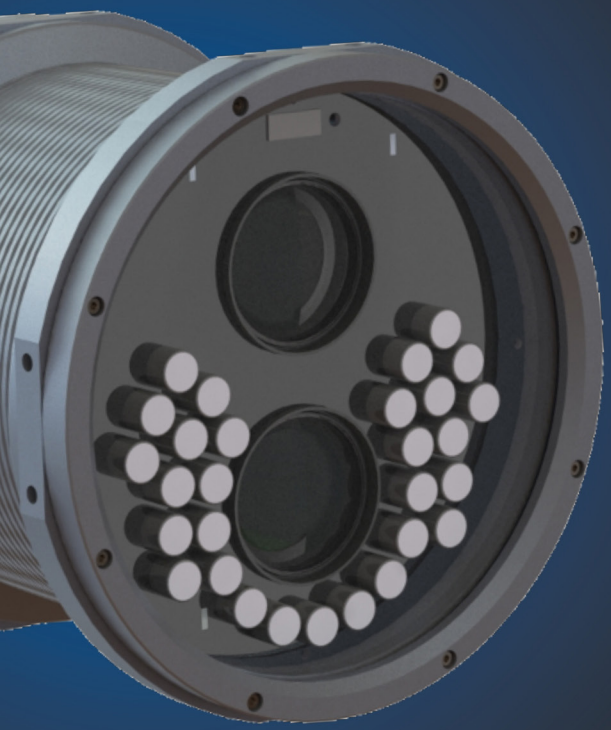
AiQ:Nano

High Speed, High Definition Intelligent ANPR Camera

AiQ:Nano represents a new phase for MAV ANPR cameras. Building on the proven IQ benchmark, the new AiQ offers an open platform computing environment for System Integrators to optionally add local processing and applications alongside the worldwide recognition capabilities of the pre-installed Vaxtor ANPR platform.

AiQ:Nano



High Performance

Font independent OCR engine accredited with greater than 99% accuracy by third parties

Global Multi-Country Support

More than 150 countries including Latin, Arabic and Thai alphabets; supports all plates from Gulf Cooperation Council simultaneously; recognition of all plates from the 50 US states

Extreme Performance

Excellent performance in low light, shadow, over/under exposed plates, damaged/dirty plates, bad weather and extreme angles whilst maintaining high accuracy reads

API Control

Full control and live feedback of ANPR, camera and IR settings

Vaxtor Back-Office

Built-in connectivity to provide vehicle make, model, colour, and class analytics

Export to Third Parties

Integrated with Milestone, Genetec, Network Optix, ExacqVision and more

Full API Support

Including generic HTTP XML/ JSON and TCP/IP output to ease third party integration

Extra Analytics

Options include: ADR recognition and licence plate colour (multiple regions)

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Intelligent ANPR

Designed for the Future

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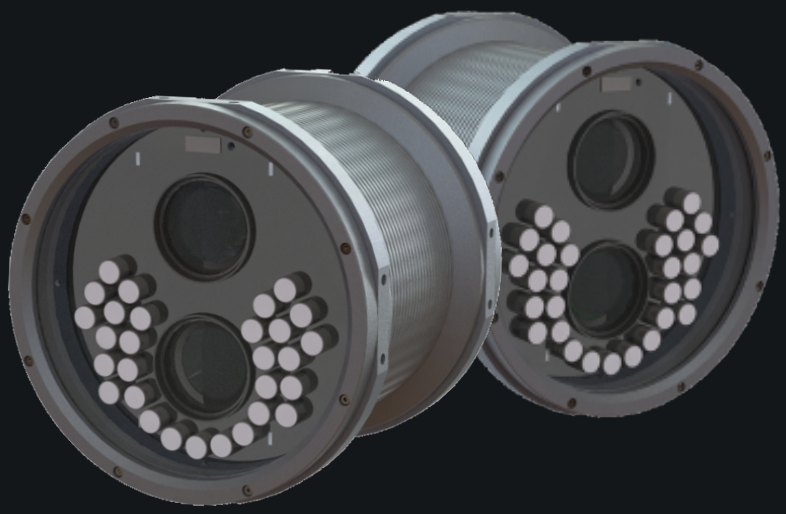
Proven building blocks remain in the AiQ including two 1080p full HD camera modules per unit for colour and IR images. This combination is proven to offer best 24/7 capture. Using fully motorised zoom block lenses ensures flexible installation and maxIRange™ pulsed IR lighting provides up to 40m range for high speed multi-lane capture.

Setting up the AiQ is simple through browser configuration and API interfaces. The native Vaxtor ANPR engine takes full advantage of raw camera sensor data for uncompressed resolution at pixel level. Quad core embedded processor with GPU support ensures real time recognition at high speeds with enough spare power for additional tasks.

- Vaxtor Embedded ANPR Engine
- All-in-One Intelligent Camera
- Full HD ANPR and Overview
- Dual Motorised Zoom Lenses
- Full 2 lane coverage
- maxIRange™ IR Illumination



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MAV AiQ:Nano Specification

High Speed, High Definition Intelligent ANPR Camera

Specifications

Recognition Range	Capture up to 7.5m width of traffic lanes from 5m to 40m range based on 850nm IR on EU retro-reflective plates
Sensors	ANPR and Overview: 1/1.8" 1920(H) x 1080(V) 16:9 global shutter, 30 fps
Motorised Lens	Auto/Manual Optical 12x / Digital 12x lens (DC Iris), IR Corrected Iris F-value: F1.5(W)~1.9(T) Focal Length: f=7.0mm~84mm - Angle of View Horizontal: 51.1°(W)~5.0°(T), Vertical 30.0°(W)~3.2°(T)
IR illumination	Pulsed LED array with lenses (850nm standard. White light, 740nm or 940nm optional)
Optical Filters	IR: Bandpass matched to LEDs OV: Day/Night IR Cut Filter (auto/manual)
Camera Control	Integrated web server provides full camera and illuminator setup pages and live preview from any connected browser (no plug-ins required)

ANPR Functionality

ANPR Processor	Quad core embedded processor with GPU support
ANPR Software / Presets	Vaxtor ANPR license and settings upload via web-based configuration pages for simple remote management
Operating System	Linux based solution pre-installed with VAXTOR engine and capability to accept third-party applications for local processing and use by System Integrators for full ITS, Average Speed, Low Emission Zone and other enforcement solutions.
ANPR Features	Image cropping options for Overview image, advanced de-skew and yaw correction, character spacing validation, country of origin matching and direction of travel reporting
Vehicle Speed	Up to 250Km/h = 155mph (Figures based on gantry mount reading front European plates)

Physical Specifications

Operating Voltage	PoE+ (803.2at type 2) or 10-15VDC suitable for battery power
Network Connections	10/100 Base-T physical
Power Consumption	Nominally 20W
Dimensions	155 x 155 x 145mm (cylindrical) excluding connectors, mount and sunshield
Weight	2.5kg excluding mount and sunshield
Enclosure	IP68 hermetically sealed. Hard anodized aluminium with mount options
Temperature / Humidity	-40°C to 60°C operating with relative humidity 0%RH to 100%RH (hermetically sealed)

Service

Customer Service	Friendly, helpful service for product ordering and repair returns
Technical Support	Comprehensive pre and post-sale technical support for full life of the product
Warranty	12 month warranty, extended warranties and factory repair/replacement options available
Long Term Supply	Complete support for the life of the product
Training	Comprehensive product training programmes for customers

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