



BayiQ Technical Specifications

SPECIFICATIONS

Recognition Range	One camera can cover up to 6/7 bays at range of 20m, up to three cameras can be connected to the systems (20 Bays)
Sensor	ANPR and Overview: 5mp Video & up to 30fps
Motorised Lens	Auto/Manual Optical 4x 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
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 ENGINE 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 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
ANPR Engine Protocols	Supports JSON, UTM, BOF 2, web services, NPED, Secure File Exchange, Helix, FTP and ONVIF(m)
Communications	Integrated Wifi & LTE

PHYSICAL SPECIFICATIONS

Operating Voltage	Control box 110 to 230v AC, Cameras, POE 802.af Class 3
Network Connections	10/100 Base-T Physical
Power Consumption	15w Per Camera < 12.95W per camera
Dimensions	155 x 155 x 145mm (camera) 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 programmes available
Long Term Supply	Complete support for the life of the product
Training	Comprehensive product training programmes for customers

ENSURE FAIR ACCESS • MAXIMISE CHARGING REVENUE • IMPROVE DRIVER EXPERIENCE



BAYiQ

Smarter EV Bay Management



BAYiQ

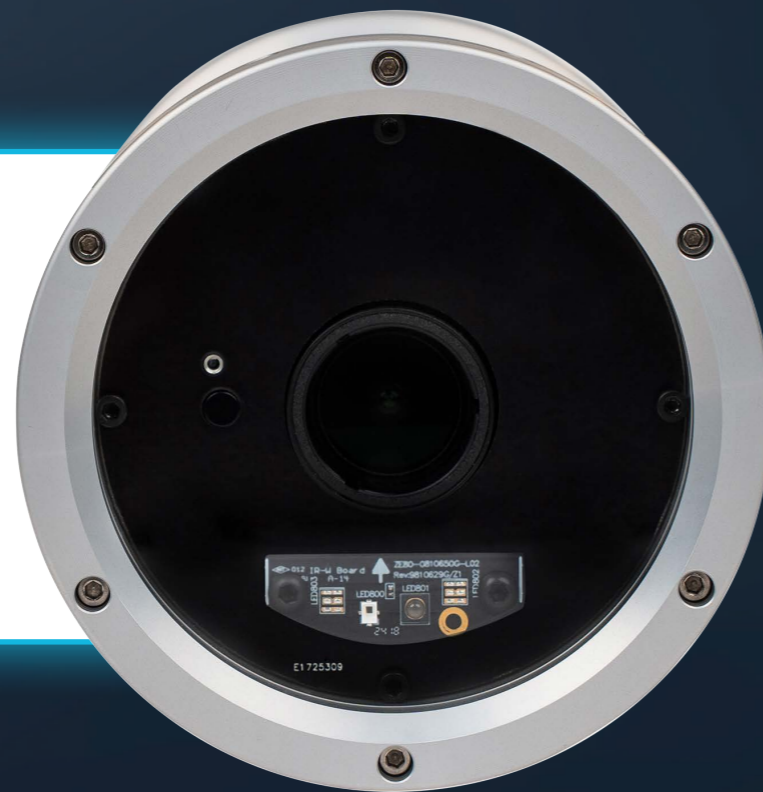
The Growing Challenge of EV Bay Misuse

As the number of EVs on the road continues to rise, charging infrastructure is struggling to keep up. Every EV bay is critical, but many are misused:

- Non-EV vehicles occupying EV bays, blocking drivers who need to charge.
- Overstaying EVs left long after charging is complete, turning bays into free parking spaces
- Underutilised infrastructure, where operators lose potential revenue because bays are not available for active charging.

BayiQ Solution

The BayiQ ANPR camera system is MAV Systems' next-generation solution for intelligent EV bay monitoring. Building on our proven IQ platform, the BayiQ combines advanced ANPR technology, intelligent analytics, and seamless connectivity to ensure that charging bays are used correctly, fairly, and efficiently.



How BayiQ Works

- High-accuracy licence plate recognition identifies every vehicle using EV bays.
- AI-powered rules detect if a vehicle is not an EV, or if it has overstayed beyond its charging requirement.
- Automated enforcement triggers allow operators to issue penalties, deterring misuse and encouraging fair use.
- Real-time analytics dashboards provide occupancy, usage trends, and comparative site data to support infrastructure planning.

Key Advantages for EV Bay Operators

Enforcement Made Easy

- Detect and act against non-EV vehicles occupying charging bays.
- Monitor and prevent overstays where EVs remain parked beyond charging completion.
- Integrate with penalty and enforcement systems for seamless management.

Maximise Bay Availability

- Detect and act against non-EV vehicles occupying charging bays.
- Monitor and prevent overstays where EVs remain parked beyond charging completion.
- Integrate with penalty and enforcement systems for seamless management.

Data-Driven Insights

- Analyse occupancy and availability across sites.
- Understand peak and quiet charging times.
- Review average charging session lengths.
- Compare usage across multiple sites to guide infrastructure investments.

Future-Ready Technology

- Works standalone or integrates with existing systems.
- Supports multiple bays with scalable coverage (up to 20 bays per system).
- API integration with third-party enforcement and parking solutions.
- Built-in 4G/LTE/WiFi (5G Optional) connectivity for flexible deployment.

Benefits Beyond Enforcement

- Improves customer satisfaction by keeping bays available.
- Supports sustainability goals by encouraging proper EV charging behaviour.
- Drives profitability by ensuring operators receive payment for charging usage.
- Low running costs thanks to simple browser-based setup and remote management.
- Wifi services offered to Bay users via the BayiQ internal communication package

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