

Complete in vehicle headless ANPR system

MAV Mobile provides a complete in vehicle headless ANPR system which is NPED Ready. Based on a new generation of vehicle certified mobile computer with 1-4 cameras, with options for daytime internal cameras and/or day/night external IR based cameras.



Multi Lane

3MP MAV SabrelP 4x Zoom with Strobe / Trigger output (Internal / External) Single Camera supports three lane reading from a single unit



Integrated ANPR Engine

AI Edge In-vehicle ANPR System Running FlexiAI Software (NPED Ready)



JSON, UTMC, BOF2 Web Services

simple integration into applications using open interface



Supports a wide range of Traffic and Parking system requirements



Powerful Pulsed IR

maxIRange™ for true day/night number plate recognition



Eco Power

9~36V DC-in with ignition control & OCP/OVP



Integrated Comms

In Vehicle Wifi Hotspot with LTE or 5G Connectivity & GPS



Environmental

The rugged, fanless design with IP67 rating, CE/FCC, UKCA, Emark certified



Extensive meta-data including vehicle Make, Model, Colour

MAV Mobile

FLEXIAI HIGH SPEED VEHICLE TARGETING FOR MULTILANE

Complete in vehicle
headless ANPR system



Designed for the Future

The full HD resolution cameras are designed to read number plates at 5-25M with a 10M width coverage. Built-in FlexiAi provides high speed vehicle targeting for multilane and high speed use. Built to support a range of parking and traffic applications, including the provision of vehicle make, model and colour data, this resilient solution offers multiple communication outputs. Designed to provide efficient communication with Backoffices and ANPRonline cloud service, this solution enables hotlist support and options for Secure Encrypted Local Hotlists, and Secure Online Hotlist Exchange (NPED Secure).

MAV's new cameras are connected by single cables which provide ANPRvideo, control protocol and power on a single MIPI connection, simplifying the installation process.

The mobile system provides its own Wi/FI hotspot for management and setup, Data SIM for communication to the cloud services and Back Offices and GPS location services.



MAV Mobile

FLEXAI HIGH SPEED VEHICLE TARGETING FOR MULTILANE

Technical Data

CAMERA SPECIFICATION

Recognition Range	Capture of up to 10m of traffic lanes from 5 to 25m
Connectivity	4-Channels of HD 1080p/60fps video over up to 100m cable (supports up to four cameras)
Cameras	MAV SabreHD 3MP with 4x Zoom or external RapierIP with additional IR, both supporting three lane recognition
IR illumination	LED arrays 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 whilst stationary

ANPR ENGINE FUNCTIONALITY

ANPR Processor	NVIDIA® Jetson Orin AGX for high performance ANPR capability
ANPR Software / Presets	MAV FlexAI - In-vehicle ANPR System
ANPR Engine Protocol	Supports JSON, UTMC, BOF2 WEB Services & NPED Secure File Exchange
ANPR Metadata	Multiple plate tracking with IDs, full availability of plate movement/size data through field of view
ANPR Storage	Onboard storage 250GB (optionally 500GB) for up to 1 million buffered reads & DVR Video or RTSP streams
ANPR Features	Image cropping options for Overview image, advanced de-skew and yaw correction, character spacing validation, country of origin matching, lane determination, direction of travel, plate tracking and geometry.

PHYSICAL SPECIFICATIONS

Operating Voltage	9~36V DC-in with ignition control & OCP/OVP. Optional UPS available for stable operation through ignition/voltage dips.
Memory	32GB standard
Connections	Dual WiFi, Dual LTE, GPS/GNSS, integrated Dual SIM Slots, 6x LAN RJ45 Ports with POE, 3D accelerometer/gyroscope/G-Sensor, USB, RS232.
Dimensions	214 x 168 x 83mm
Weight	2.5kg excluding mounts
Enclosure	IP67 rugged and fanless casing, MIL-STD-810G
Temperature / Humidity	-30°C to 70°C operating with relative humidity 0%RH to 100%RH (hermetically sealed)

SERVICE

Customer Service	Friendly, helpful service for product ordering and repair returns
Standards	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

Note: All lane width and multilane capability statements in this brochure are based on 850nm IR for standard UK license plates and UK infrastructure - some variation should be expected for smaller international plates or wider traffic lanes.