

IQ:230X

Dual all-in-one Compact Zoom Camera

Incorporating full HD images, motorized 10x zoom, high speed ANPR recognition and *maxIRange™* pulsed IR lighting in one efficient unit, the MAV IQ:230X lane camera forms an integral part of the IQ range.



IQ:230X



Dual Lane

High resolution 720p images providing excellent recognition



Zoom Cameras

Fully controllable *truEZOOM™* for the perfect field of view



Night Images

Overview camera can be synchronised with internal IR



Powerful Pulsed IR

MaxIRange™ for true day/night number plate recognition



Integrated ANPR Engine

To provide high accuracy reads with meta data



Eco Power / PoE+

Low power consumption, optionally powered from 802.3at PoE+



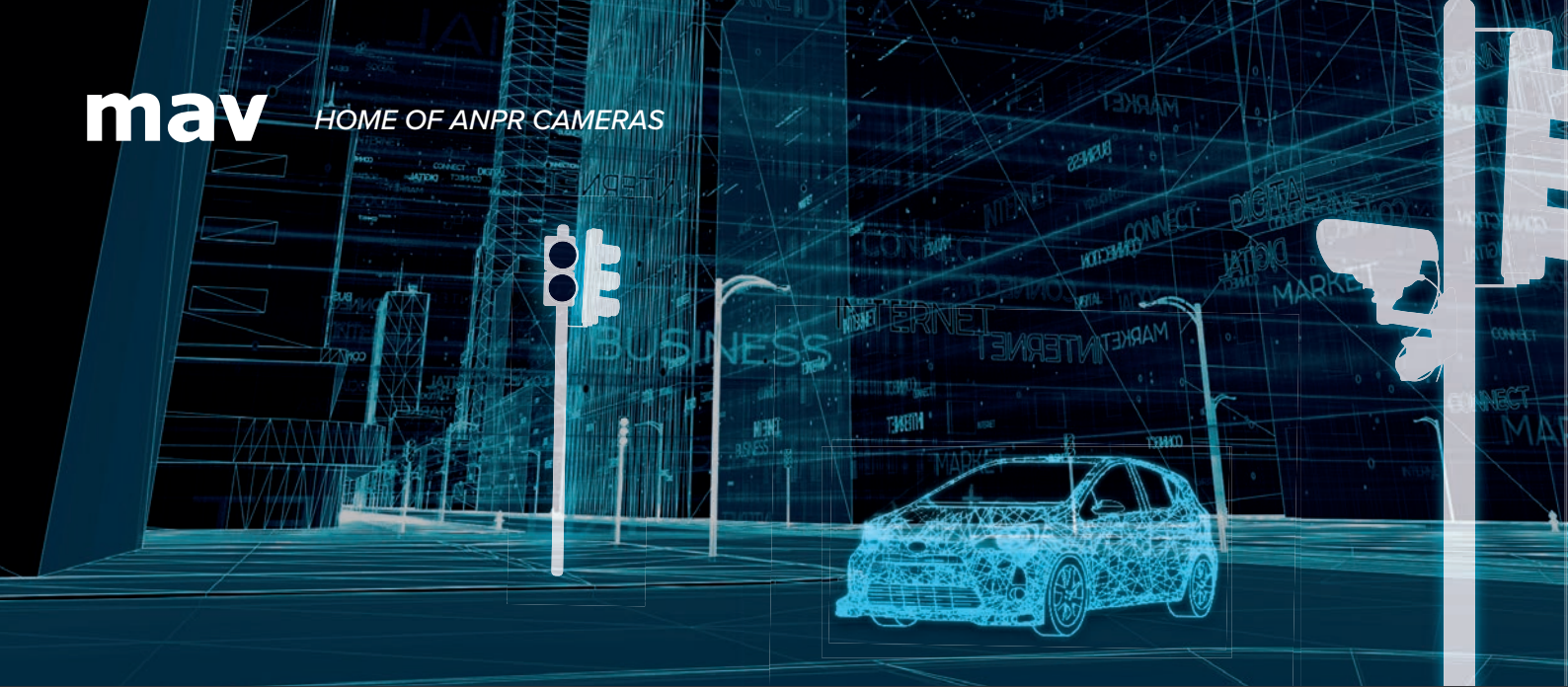
JSON Web Services

Simple integration into applications using open interface



Easy Installation

Full setup using web browser with live video



Intelligence and Full HD Dual Lane

The MAV IQ:230X Dual lane camera provides recognition up to 7m lane width for detection of plates and is simple to set up with truEZoom™ for perfect field of view at distances from 10m up to 30m.

The high definition global shutter ANPR camera module is synchronized to upgraded infrared (IR) pulsed LEDs to offer superior license plate recognition to match the increased capture resolution on offer.

By performing the ANPR recognition within the camera network traffic is massively reduced. Real time recognition is performed on raw high definition images at full frame rate and will work for all traffic speeds from high speed highway gantry systems to access control.

The IQ range incorporates high grade processing within the unit to give industry leading ANPR accuracy. Extensive metadata is provided for each plate read to offer application developers everything needed to determine plate characteristics, direction of travel and provide cropped overview and plate patch images. All this is available from the internal server using open standard JSON web services.



IQ:230X Specification

The Mav IQ:230X is a short range 10-30M compact camera.

Specifications

Recognition Range	Capture of up to 7m traffic lane(s) from 10m to 30m based on 850nm IR on EU retro-reflective plates
Motorised Zoom	10x optical zoom, lens equivalent f=5.1 to 51mm, HFoV 54° (Wide) to 4.96° (Tele), F1.6 to F19.
Shutter / Iris	1/50 to 1/10,000 / F1.6 (wide) to F3.6 (tele)
Image (ANPR and Overview)	Two HD cameras: 1280(H) x 720(V) effective pixels digitally connected to ANPR processor at 25 fps
IR illumination	Narrow or Wide Pulsed LED arrays with lenses (850nm standard. White light, 740nm optional)
Low Light	ANPR camera 0.0 Lux with illumination Colour Overview 0.05 Lux Colour / 0.03 Lux B/W
Optical Filters	IR: Bandpass matched to LEDs OV: Day/Night IR Cut Filter
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	Dual Core DSP with co-processor and two channel internal parallel video input
ANPR Software / Presets	ANPR license and configuration upload via web based configuration pages for simple remote management
ANPR Engine Protocol	JSON web services provide full access to overview and plate patch images and metadata as push or pull messages for easy integration into applications (O/S independent) and via web pages
ANPR Metadata	Multiple plate tracking with IDs, full availability of plate movement/size data through field of view
ANPR Features	Options for dual read colour and IR, Image cropping options for Overview image, advanced de-skew and yaw correction, character spacing validation, country of origin matching

Physical Specifications

Operating Voltage	PoE+ (803.2at type 2) or 12 volts DC
Network Connections	10/100 Base-T physical
Power Consumption	Nominally 14W
Size (WxHxD)	138 x 57 x 148 mm (W x H x D) - excluding brackets/sunshield/cable
Weight	1.5kg excluding mount and sunshield
Enclosure	IP68 hermetically sealed. Hard anodized aluminium with mount options
Temperature / Humidity	-30°C to 55°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
Quality Management	MAV operate a quality management system complying with ISO 9001:2000
Long Term Supply	Comprehensive product training programmes for customers