

JetCam Fox-i

Intelligent High Definition Infra Red ANPR Camera

CitySync, the leading manufacturer of Automatic Number Plate Recognition Systems, supplies highly accurate ANPR Engines, Application Software, Specialised Recognition Hardware and a comprehensive range of IR Cameras. These include High Definition cameras, low power mobile Police cameras and a range of Intelligent ANPR Cameras.

The JetCam Fox-i Intelligent ANPR camera is designed for use in applications where it is necessary to process the ANPR images at the point of capture. Alternatives include streaming all video back to a central control room or using a rugged roadside processor such as the Blackbird or Silverbird mounted in a waterproof roadside cabinet. Whilst the latter solution is very powerful, it can carry a high installation cost which can prove prohibitive for some applications.

Until now, ANPR providers have relied on powerful Intel™ based computers with bus-based video frame grabbers to attempt to achieve high recognition rates from fast moving vehicles. Leading engines such as the Jet™ ANPR Engine deliver exceptional results by aggregating several plate reads as a vehicle passes.

When faced with the challenge of producing compact intelligent cameras most manufacturers have resorted to using small low power digital signal processors (or equivalent) to process the images on board.

These dedicated processors suffer in two ways:

- They simply cannot provide the processing power required for the best multi-read ANPR engines
- Proprietary hardware does not lend itself to modification or the addition of customised on-board features

The JetCam Fox-i has been developed over several years to address these problems and is based around a new generation 1GHz processor running Embedded Windows™ with 512MB of DDR2 SDRAM and up to 64GB of flash memory.

The integral ANPR camera has a High Definition resolution of 1280 x 960 for deployment on wide or dual lanes, Toll Plazas or site entrances of over 5m in width. An optional day/night colour overview camera is available to capture not only the plate details but also a colour contextual image of the event.



The Fox-i is also available in an actively cooled housing for use in hot environments

The Fox-i is fully NAAS and BOF-2 compliant.

The resulting system uses minimal power and is fast enough to process at full frame rate as each car passes the camera at high speed, resulting in what we believe to be the most accurate intelligent ANPR camera on the market.

Once the plate has been read, the Fox-i transmits the plate text, with optional colour overview images via TCP/IP over a network connection – or via the on-board 3G modem.

The Fox-i camera can buffer up to 64 GBytes of event data internally for later transmission. This means that over 128 million plates (data only) – or over 1 million plates with full colour overviews can be stored in an encrypted format at the camera head if necessary. This buffering overcomes any breakdown in communication or network bandwidth problems.

Basic plate details are transmitted along with the camera ID and GPS location from the on-board receiver to an ANPR Server. When a hit occurs at the server, a request can automatically be sent to the Fox-i which immediately sends back the appropriate overview imagery.



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JetCam HD Deployment:

- Journey Time Monitoring
- Traffic Systems
- Congestion Charging
- Covert Operations
- Tolling
- Remote Deployment

Key Features:

- Runs JetBase Live and is JetStream Compatible
- Configurable Resolution – up to 1280 X 960
- Motion Detection for vehicles with no plates
- 1000/100 Base-T Connection
- H.A. Approved Bracket
- Over-Air S/W Updates
- Integral GPS Receiver
- 3G Modem
- WiFi Option

Technical Specification:

ANPR Range	6 – 25m
Sensor	Sony 1/3" progressive scan CCD
Pixels	1280 x 960
Pixel Size	3.75µm x 3.75µm
Frame Rate	30 fps
Lens Mount	C Mount (CS Option)
Processor	X86 compatible CPU 1GHz fanless
RAM	512MByte DDR2 400 RAM
CF Memory	Up to 64GB
Watchdog	Yes
Output	1000Base-T/100Base-TX
Interfaces	USB 2.0 x 2, RS232C x 1
Digital I/O	8 Channels
Illumination	Multi LEDs with separate lenses
Power Requirements	15V 2.5Amp (PSU included 85-265Vac in 15Vdc output)
Storage Temperature	-30 to +60° C
Operating Temperature	-5 to +45° C
Brackets	Various mounts available
Weight	4.5 Kg
Dimensions	86 x 179 x 320mm (H x W x D)
Brackets	U Bracket standard, various mounts available

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Specifications subject to change without notice

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