



For all your **ANPR** needs

From small systems to **City wide**
schemes and major highways projects

Global **leaders** in ANPR innovation

Off-the-shelf and **bespoke**
ANPR Solutions

Our ANPR **experts** are here to help you

Solutions for **Homeland
Security, Traffic Systems,
Parking and Security**

Established 1999, now part of ISS a
NASDAQ listed company

CitySync ANPR you can trust

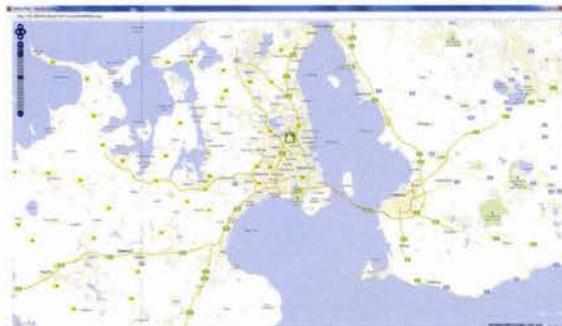


Jet-BOF

Jet-BOF Alarm List

ID	Name	Latitude	Longitude	Area Type	Area Width	Configure
1	SATVTS	51.45	0.12	Highway	Auto-track	
2	SATVCS	51.45	0.12	Highway	Auto-track	
3	SATVTS	51.45	0.12	Highway	Auto-track	
4	SATVTS	51.45	0.12	Highway	Auto-track	
5	SATVTS	51.45	0.12	Highway	Auto-track	
6	SATVTS	51.45	0.12	Highway	Auto-track	
7	SATVTS	51.45	0.12	Highway	Auto-track	
8	SATVTS	51.45	0.12	Highway	Auto-track	
9	SATVTS	51.45	0.12	Highway	Auto-track	
10	SATVTS	51.45	0.12	Highway	Auto-track	
11	SATVTS	51.45	0.12	Highway	Auto-track	
12	SATVTS	51.45	0.12	Highway	Auto-track	
13	SATVTS	51.45	0.12	Highway	Auto-track	
14	SATVTS	51.45	0.12	Highway	Auto-track	
15	SATVTS	51.45	0.12	Highway	Auto-track	
16	SATVTS	51.45	0.12	Highway	Auto-track	
17	SATVTS	51.45	0.12	Highway	Auto-track	
18	SATVTS	51.45	0.12	Highway	Auto-track	
19	SATVTS	51.45	0.12	Highway	Auto-track	
20	SATVTS	51.45	0.12	Highway	Auto-track	
21	SATVTS	51.45	0.12	Highway	Auto-track	
22	SATVTS	51.45	0.12	Highway	Auto-track	
23	SATVTS	51.45	0.12	Highway	Auto-track	
24	SATVTS	51.45	0.12	Highway	Auto-track	
25	SATVTS	51.45	0.12	Highway	Auto-track	
26	SATVTS	51.45	0.12	Highway	Auto-track	
27	SATVTS	51.45	0.12	Highway	Auto-track	
28	SATVTS	51.45	0.12	Highway	Auto-track	
29	SATVTS	51.45	0.12	Highway	Auto-track	
30	SATVTS	51.45	0.12	Highway	Auto-track	
31	SATVTS	51.45	0.12	Highway	Auto-track	
32	SATVTS	51.45	0.12	Highway	Auto-track	
33	SATVTS	51.45	0.12	Highway	Auto-track	
34	SATVTS	51.45	0.12	Highway	Auto-track	
35	SATVTS	51.45	0.12	Highway	Auto-track	
36	SATVTS	51.45	0.12	Highway	Auto-track	
37	SATVTS	51.45	0.12	Highway	Auto-track	
38	SATVTS	51.45	0.12	Highway	Auto-track	
39	SATVTS	51.45	0.12	Highway	Auto-track	
40	SATVTS	51.45	0.12	Highway	Auto-track	
41	SATVTS	51.45	0.12	Highway	Auto-track	
42	SATVTS	51.45	0.12	Highway	Auto-track	
43	SATVTS	51.45	0.12	Highway	Auto-track	
44	SATVTS	51.45	0.12	Highway	Auto-track	
45	SATVTS	51.45	0.12	Highway	Auto-track	
46	SATVTS	51.45	0.12	Highway	Auto-track	
47	SATVTS	51.45	0.12	Highway	Auto-track	
48	SATVTS	51.45	0.12	Highway	Auto-track	
49	SATVTS	51.45	0.12	Highway	Auto-track	
50	SATVTS	51.45	0.12	Highway	Auto-track	

Jet-BOF Camera Status Dashboard



Complete Police Back Office Suite

The Jet-BOF is a world-leading fully functional, web-based back office system providing storage, matching and reporting of ANPR data. The Jet-BOF is web services certified and *NAAS compliant.

The Jet-BOF is available in 3 versions:

- Jet-BOF Light
- Jet-BOF Professional
- Jet-BOF Enterprise

Jet-BOF is a powerful and fully scalable solution designed to manage large and complex fixed site, in-car and mobile ANPR systems for high-end users such as police, customs and local authorities, as well as smaller force requirements.

Improvements to the software result from the interaction with the end-user to meet the ongoing and changing requirements of the police.

Jet-BOF Light

- A standalone entry level system with web services connectivity
- Up to 100,000 daily read rate
- Up to of 5 simultaneous users and 20 connections
- Basic search and mapping is included
- Data storage up to 30 days

- Non-expandable (can be upgraded to Professional or Enterprise)

Jet-BOF Professional

- For small to medium sized infrastructures
- Up to 500,000 daily read rate
- 10 simultaneous users; can be expanded up to 50
- 50 connections with expansion to 100
- Data storage up to 12 months
- 2 x Analytical modules can be added e.g. convoy analysis and clone plate
- Provides BOF to BOF and **NADC connectivity

Jet-BOF Enterprise

- State-of-the-art analytical toolset
- BOF to BOF and NADC interface (Vehicle Registration Mark search)
- Full graphical based camera management positioning and diagnostics
- 6 million+ reads a day with unlimited connection
- 25 simultaneous users can be expanded to 250
- Integration with 3rd Party data sets (mobile phone GIS overlays)
- Configurable storage

*NAAS – National Association of Chief Police Officers (ACPO) ANPR Standards

**NADC – National ANPR Data Centre

Jet-BOF Light



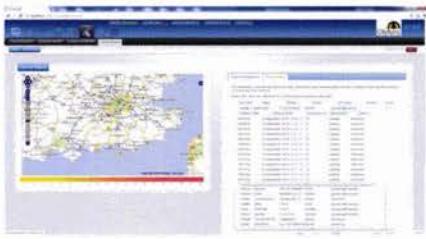
Jet-BOF Basic Search



Jet-BOF Professional



Jet-BOF Convoy Analysis



Jet-BOF Enterprise



Jet-BOF Intercept Report



Features & Benefits

- Web-based solution, providing greater flexibility
- Full analytical capability, allowing post incident analysis and reporting, live and retrospective
- BOF to BOF
- NADC interface
- 6 million+ reads per day
- Web services certified & NAAS compliant allowing you to connect back to NADC
- Numerous database platforms including SQL, MySQL and Open Source
- Supports 3rd party data sets including mobile phones etc.

Technical Specification

Operating System

Windows 7, Vista, Server 2008

Security

128bit SSL

Web Server

Utilises IIS Server with .NET Technology

Database

Microsoft SQL Server 2005/2008

For more detailed technical information and demonstration of the Jet-BOF, please contact the special projects team on +44 (0) 1707 275169.



Specifications subject to change without notice



Blackbird Micro PC™

Ultra-Low Power ANPR Processor Unit



The Blackbird Micro PC™ is a silent, miniature, low power processor unit which runs the CitySync Jet™ ANPR Engine in situations where size or discretion is important.

The small unit measures only 101mm x 115mm x 27mm and is housed in a rugged aluminium case making it suitable for mounting inside street furniture, vehicles or in restricted places. The power consumption of only 8 Watts means that the unit can operate on batteries for many days at a time. The pocket-sized PC is fanless and the SSD version completely silent.

Small and green does not mean that the unit isn't powerful. The Blackbird Micro™ is based around an Intel Atom™ processor with up to 2GB RAM and integral hard disk making it capable of reading plates from an ANPR camera with colour overview and comparing them with Hotlists in real time. Results can be instantly transmitted to a central server – or the system can simply store all the plate reads until needed.

Most compact or embedded systems have problems communicating with the outside world due to bespoke operating systems requiring special drivers for comms equipment. Not so with the Blackbird Micro. Not only does it run Windows™ allowing a huge selection of devices to be directly connected, such as 3G modems or external relays, but it has several communication options including Wi-Fi, USB, Serial and twin GigE LAN Ports.

Touch-screen Monitor

A 7" touch-screen monitor is available which complements the Blackbird Micro PC perfectly due to its size and low power consumption using just 2W at standard brightness. The monitor can be powered from the PC.

Features & Benefits

Small & Silent

Ideal for covert usage

Low Power

Can be run for days on batteries

Powerful

Can run CitySync ANPR software

Rugged

Industrial-grade components

High Storage

HDD can store up to 30 million vehicles

Multi-Connectivity

On-board Wi-Fi and GigE LAN

Accurate

Fast processing ensures NAAS Compliance

Versatile

Runs Linux or Windows™ O/S for user Apps



Mechanical and Environmental

Case

100% aluminum

Dimensions

101mm x 115mm x 27mm

Weight

370 grams - including hard disk

Operating Temp

0 - 45°C with hard disk

0 - 70°C with SSD

Power

DC 12V (9-15V tolerant)

Power Consumption

6W at low CPU load

8W at full CPU load

<1W at standby

Adapter

AC 100V-240V, 50-60Hz

** Options

Technical Specification

HARDWARE

CPU

Intel Atom Z5xx 1.1GHz – 2GHz **

Chipset

Intel US15W SCH

Memory

1GB – 2GB DDR2 RAM **

Graphics

Intel GMA500 with graphics acceleration

STORAGE

HDD

160GB SATA HDD - Upgradeable **

Mini SDF socket

On-board 4GB Flash Disk **

I/O

Display

DVI / HDMI connector

Audio

S/PDIF 5.1 via COAX line-out, line-in, mic

LAN

2 x Gigabit Ethernet

WLAN

802.11g **

USB

4 x USB 2.0 ports

Serial

RS232 full UART

SOFTWARE

BIOS

Phoenix BIOS

Bootable from HDD, USB thumb drive,

ISB, CDROM, USB hard disk or over network

O/S

Windows XP, Windows 7, Ubuntu Linux



Specifications subject to change without notice



Blackbird

Rugged ANPR Remote Processor Unit

The Jet Blackbird ANPR Remote Processor Unit is a powerful and compact PC platform running a professional Microsoft operating system. It is ideally suited to remote ANPR usage where a small, robust unit is required capable of withstanding the rigours of an industrial environment.

The 19" unit may be housed in roadside cabinets or CCTV column bases and connects directly to up to four ANPR cameras and their overviews monitoring moving traffic at barrier systems. Where overviews are not required, you can install up to 8 ANPR cameras, or two ANPR and two colour overview cameras. The Blackbird runs the powerful Jet Automatic Number Plate Recognition software which means that ANPR cameras no longer need be connected to a central processing location using expensive fibre connections. Instead, camera images can be processed at source and the ANPR data (text and / or images) can be transmitted to base as required using much less bandwidth than real-time video.

Data can be transmitted to servers using WLAN, GPRS or WiFi options.

Two 3U Blackbirds can be fitted back to back in place of a standard 4U rackmount PC. This is an excellent feature when rack space is at a premium.



Features & Benefits

Powerful yet Compact

The Blackbird has been designed to fit into a highly compact form factor whilst not compromising on power or performance.

Robust All Metal Construction

Manufactured from 1.2mm steel the Blackbird is designed for demanding environments.

Anti-Vibration Disk Mountings

The extra rugged hard disk drive is fitted with highly tuned anti-vibration rubber dampers to provide protection from shock such as can be caused by trucks travelling passed at high speed.

Multi Port Connectivity

The Blackbird comes equipped with five USB Ports, Parallel, Serial and GigE Ethernet Ports to suit a variety of infrastructures.

I/O

A 16 channel I/O module is available to allow monitoring of equipment (e.g. anti-tamper) and the control of external devices such as traffic signals, LED signs and sirens.

Deployment

Roadside

- CCTV column bases
- Highways Cabinets

Remote

- Barrier Locations
- Unattended Sites

Rack - 19"

- CCTV Control Rooms
- Security Stations

Technical Specification

	Quad Core	Dual Core
CPU	Intel Core 2 Quad 2.66GHz CPU	Intel Core 2 Duo 3GHz
Memory	4GB DDR2 667MHz	2GB DDR2 667MHz

Hard Disk

Sata 500GB Anti-vibration mounts

Expansion Slots

1xPCI Express
1xPCI-X slot
2xPCI slots

Video Input

Up to 12 Analogue inputs via expansion slots

Keyboard

PS2 Port

Mouse

PS2 Port

USB

5 x high speed USB 2.0

Serial

1 Serial RS 232 Port

LAN

2xIntel Gigabit Auto-sensing Ethernet Ports
(RJ45 Connector)

Power

400Watts 110/240v AC (Switch Select), 50-60Hz,
Fused

Inlet

(Over Power, Over Voltage, Short Circuit
Protection). Safety: UL1950, CSA C22.2 No. 950,
EN 60950 A1 & A2, IEC 950.

MTBF

>50,000 hours at 25° C

Dimensions

132 x 450 x 300mm (H x W x D)

Weight (Approx)

10 Kg

Construction

Body 1.2mm Steel

Operating Temperature

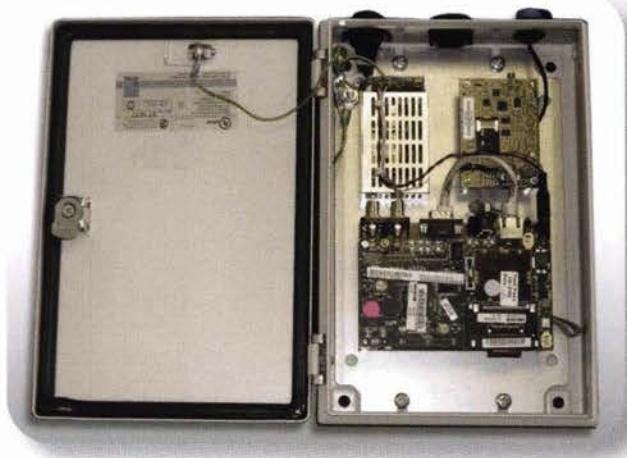
-5° to +45° C



Specifications subject to change without notice



Fox in a Box (FIAB)



The pole-mounted FIAB can be connected to CitySync PAL or GigE HD ANPR cameras.



Pole Mounted ANPR Processor

The CitySync Fox-in-a-Box (FIAB) is a discreet Pole-Mounted powerful ANPR Processor which resembles a typical outdoor power supply containment that blends in with most street furniture.

The simple but rugged casing contains a powerful fanless ANPR processing unit with inputs for both Fox Analogue ANPR cameras and the CitySync GigE High Definition Fox-HD ANPR camera.

The FIAB houses a stable power supply which also powers the ANPR cameras.

The unit contains GPS equipment with optional 3G and WiFi communication modules.

The FIAB runs the powerful Jet Automatic Number Plate Recognition software and the unit is capable of reading plates from passing vehicles travelling at high speeds over lane widths of up to 6m making it suitable for monitoring traffic in wide bus lanes or vehicles passing across wide road junctions.

By housing the ANPR processor on the same pole that the ANPR cameras are mounted, the cost of installing a traffic ANPR system is greatly reduced and this configuration removes the need for long video or GigE cable runs back to roadside cabinets with all their associated expense and installation challenges. ANPR cameras therefore no longer need be directly connected to a central processing location using expensive fibre connections. Instead,

camera images can be processed at source and the ANPR data (text and images or video) can be transmitted to base as required using much less bandwidth than traditional video methods.

The FIAB contains a rugged SSD (Solid State Hard Drive) allowing the processor to be mounted both horizontally or vertically without the risk of a disk failure. It can store data for substantial periods of time before being uploaded. This feature is essential in situations where communication technology such as 3G has network failures or network overloads.

Deployment

- **Motorway Gantry**
- **Urban traffic monitoring**
- **Town Centre deployment**
- **Bus Lane Enforcement**
- **Road Junction monitoring**
- **Covert Surveillance**

Features & Benefits

- ANPR processing at source increases accuracy and reduces bandwidth on networks
- Pole mounted processing removes the need for expensive roadside cabinets
- Discrete housing reduces risk of vandalism
- Single FIAB unit can accept both Analogue and High Definition ANPR camera inputs
- Solid State technology improves durability
- Fast Intel Processor for accurate ANPR reads
- GPS and multiple communication options

Technical Specification

Processor

Intel® Core™ 2 Duo Processor P8400 (3M Cache, 2.26 GHz, 1066 MHz FSB)

Memory

4GB DDR3 800/1066 MHz SDRAM

I/O

2 x GigE LAN ports 4 x USB2.0 ports

1 x DB15 VGA port

Connectivity

GigE LAN with optional 3G and WiFi

On Board Storage

32GByte SSD Drive

Power Requirements

Mains 24v ac

Typical Power Consumption

Dependent on options

Conformity

CE, FCC Class B

Storage Temperature

-20° to +80° C

Operating Temperature

-5° to +55° C

Relative Humidity

10% to 93% (Non-Condensing)

Dimensions

300 x 200 x 150mm (H x W x D)

Brackets

Various Mounts Available



Specifications subject to change without notice



JellyBean

The JellyBean is compact and aerodynamic



A second skin forms an integral heat shield



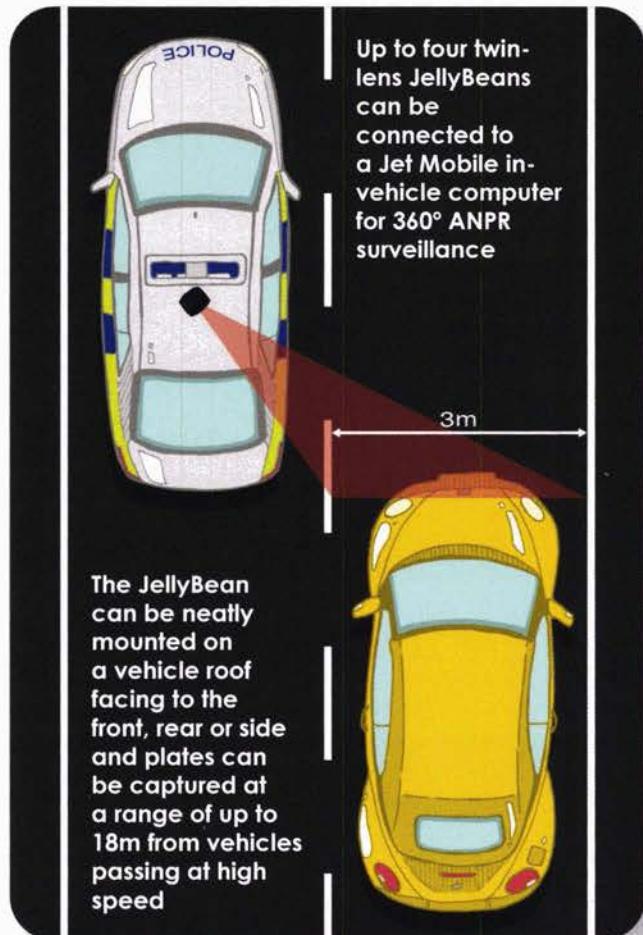
Twin Lens Vehicle Mount Infra Red ANPR Camera

The JellyBean is a low profile ANPR camera – designed for both Police mobile and fixed medium range use. It has a CitySync-designed elegant and compact housing containing both a monochrome infra red ANPR camera module and a colour overview module.

The high quality optics combine with the latest generation compact LED technology to produce a camera that is both light and powerful. When mounted on a vehicle roof, the low-profile aerodynamic shape minimises drag allowing Police vehicle to achieve higher speeds than with some cameras.

The JellyBean is available in black as standard – or an optional white finish if required. All cameras have twin composite PAL outputs from the two modules (IR and Colour Overview) which can be connected to PCs, MDTs or the Hippo IP Converter for direct connection to laptop computers.

JellyBeans can be supplied with normal lens differentials (e.g. 35mm for the ANPR and 25mm for the overview) – or identical lens sizes if required.



Features & Benefits

Design

Compact and aerodynamic minimises drag when used externally

Twin Camera Module

IR + Overview – giving contextual overview to Infra Red image

Lightweight and Powerful

Ideal for Pole mounted deployment

Discreet

Perfect for Town Centre monitoring

Deployment

- Police Car Exterior
- Roadside Use
- Barrier & Gate Use
- Compound Entrances
- Day/Night Use

Technical Specification

ANPR Range

5m, 7m, 10m, 15m and 20m

Sensor (ANPR)

1/3" Sony X-View, Colour CCD Sensor

Resolution (ANPR)

570 TVL

Sensor (Overview)

1/3" Super HAD Sensor

Resolution (Overview)

480 TVL

IR Wavelength

850nm

IR Illumination Angle

Pre-focused and aligned to suit detection range

Shutter

1/1000th - 1/50,000th second

ANPR Video

Composite 1Vp-p CVBS @ 75 Ohms

Overview Video

Composite 1Vp-p CVBS @ 75 Ohms

Illumination

Multi LEDs with separate lenses

Supply Voltage

12V AC

Power Consumption

<12W

Input Voltage

11 - 14V DC

Storage Temperature

-20° to +40° C

Operating Temperature

-15° to +80° C

Environmental

IP66

Brackets

Various mounts available

Weight

1.25 Kg

Dimensions

70 x 145 x 140mm (H x W x D)



Specifications subject to change without notice



JET RoadRunner Commander



Rapid Deployment Mobile ANPR System

The RoadRunner Commander is a robust mobile Automatic Number Plate Recognition System designed for vehicle or temporary fixed site use.

Rapidly deployed in minutes, the Commander will read plates from up to four lanes of fast moving traffic simultaneously. Designed to be used by field operators for information gathering and enforcement, the unit has full real-time database and multiple hot-list matching with alarm processing.

The casing is built to military standards and is completely sealed to prevent infiltration from rain or dust. The units are designed to survive 15G accelerations and 1 metre drops. In addition the standard RoadRunner can operate in temperatures of 0°C to 55°C. Higher temperature ranges available upon request.

The unit offers low power consumption and heat generation giving improved battery operating life whilst the 14.1" sunlight readable LCD allows the unit to be used outside of vehicles.

Communication with base is simple using the internal GPS/GPRS/GSM module or the optional 802.11b compliant wireless card.

Features & Benefits

- A self contained computer running CitySync ANPR Engine with 12V operation from vehicle, BNC plugs for up to 4 ANPR cameras, LAN / USB / Serial / Parallel Ports, Infra Red Connectivity giving flexibility.
- The RoadRunner is compact & portable with a rugged case, its IP54 rating means it is dust and rain proof with an illuminated rubber keyboard making it suitable for rapid deployment in the harshest environments.
- The RoadRunner runs on an internal 97 Whr battery, it has GPS / GSM / GPRS capability and a Wi-Fi option. It has an Infra red connectivity daylight readable screen, dual front speakers and specially designed user-interface.

Deployment

- Law Enforcement
- Customs / Immigration
- Border Control
- Civil Enforcement
- Military Deployment
- Traffic Surveys
- Covert Usage
- Temporary Commercial Applications

Mechanical Specification

Enclosure

Sealed magnesium alloy die-cast

Dimensions

135 x 310 x 275mm (H x W x D)

Weight

7.5Kg

IP Rating

IP54

Operating Temperature

0°C to 55°C others available upon request

Storage Temperature

-40°C to 70°C

Humidity

Up to 95% Relative Humidity, Non-condensing

Altitude

Approx 5000m

Cooling

Fanless, Internal heat pipes

Bag

Laptop type Carrying Bag

Technical Specification

DISPLAY

Integral 14.1" TFT XGA Colour
High Contrast, Sunlight readable LCD
Protective Window

COMPUTING PLATFORM

CPU - Intel Core Duo LV Processor 1.66GHz

Memory - 1GB DDR2 Ram, 2GB Optional

Storage - 80GB HDD with shock resistance
damper

Media - DVD/CD-RW Combo Drive

Graphics - Intel GMA 950 Graphics Controller

Ports - 1 x Serial, 1 x Parallel, 1 x VGA Monitor,
2 x USB 2.0, 1 x 1394B, 1 x RJ-45, 1 x RJ-11,
1 x Microphone, 1 x Line Out, 1 x IrDA, 1 x
Docking Port, 1 x DC in

PCMCIA - 2 x Type II or 1 x Type III PCMCIA slots

Communications - 10/100/1000 Base-T Ethernet,
56k, V92. Modem; Optional
Intel 802.11a/b/g Wireless
LAN

Expansion - 1 x PCI. 1 used by JG-Frame Grabber

OS - Windows XP Pro

PERIPHERALS

Keyboard - Water / Dust-proof Backlight Rubber

AUDIO SUB SYSTEM

Speakers - Dual front speakers

POWER

AC Adapter - Universal

Input Voltage - 100-240v, 50/60Hz AC

Cable - 10-20v DC Vehicle lighter socket cable

Battery - Removable & rechargeable main Li-Ion
battery pack (9600mAH) approximately
3 hours life

Charger - 12-32v external vehicle adapter
charger option

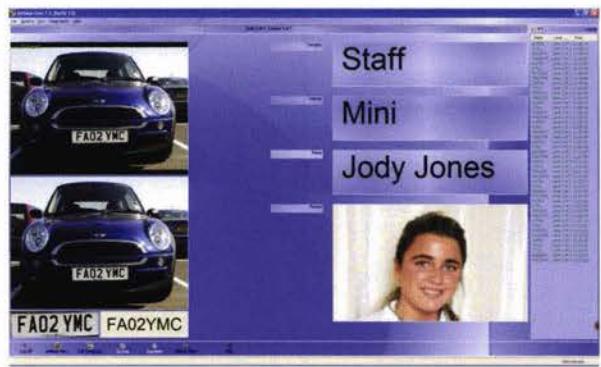


Specifications subject to change without notice



JetBase ANPR Application Software

JetBase Live



JetBase Review



JetBase is an advanced vehicle logging and image database management system that has wide appeal for commercial and government users for car parks, high security sites, etc.

The system is fully interactive and provides audible and visual alerts with 'action messages' for security staff. It is also ideal for Car Park Access Control and can automatically open barriers or control LED displays for known vehicles. The system works equally well with all types of traffic.

The program consists of two parts: JetBase Live and JetBase Review. JetBase Live is the heart of the ANPR system - it monitors traffic via ANPR cameras and logs any passing vehicles. It uses an in-built proprietary database with fully configurable fields. It looks up any registration numbers as the vehicle approaches and displays any information available - e.g. Driver Name, Image of Driver, Vehicle Make / Model and any specific instructions for the user - e.g. "Check Pass" etc.

The system can record multiple colour overview images of the car and driver from standard CCTV cameras as the plate is captured. This adds an extra layer of security to the system.

A database of users / employees may be generated in say Excel or Access and imported into JetBase.

JetBase Review allows fast easy searching based on full / part plates, time & date ranges etc. and will display log entries with any associated captured images. It also has the ability to analyse data in the form of graphs and charts.

Features & Benefits

Log vehicles with multiple images

Alert staff to vehicles of interest

Provide Car Park Access Control, open gates and barriers

Control unauthorised commuter parking

Increase gatehouse efficiency

Control traffic lights

Output messages to LED signs

Send emails, SMS messages to mobile phones

Car Park auditing / ticketing / management

Allow sophisticated database searching

Advanced traffic analysis

Communicate with remote sites over LAN / WAN

Accept an input from a Proximity Card

JetWatch monitors system health

Jet Personality stores personal/site specific settings

Rights based user accounts



Ports & Airports

For Police, Customs, Immigration & Commercial Applications.



Site Security

For Access Control & Interactive Alerts on-screen, via pagers etc.



Traffic Application

Journey Time Monitoring, Tolling, Surveys, Police etc.



Town Centre CCTV

For Traffic Analysis, Congestion Charging & Police applications.

Deployment

- Law Enforcement
- Journey Time Monitoring
- Traffic Surveys
- Car Park Access Control
- Car Park Management
- Ticketless e-Parking
- Airports
- Ports of Entry
- Industrial Estates
- Manufacturing Sites
- Petrol Filling Stations
- Hotels
- Hospitals
- Military Bases
- Retail Car Parks
- Town Centre CCTV
- Landfill / Waste Sites
- Weighbridges / Weigh-in-Motion
- Transport & Logistics
- Vehicle Compounds
- In-Vehicle Systems



Specifications subject to change without notice



JetCam Analogue ANPR Cameras

JetCam Cub



JetCam Fox



The JetCam Fox analogue range of ANPR cameras offer cost effective solutions for number plate capture 24 hours a day. The housings complement CitySync's modular design philosophy offering a wide range of solutions within two innovative designs.

The cameras are designed to work with the Infra Red retro reflective properties of number plates. The lighting and filtering technologies employed overcome issues associated with traditional CCTV cameras such as headlight glare.

The JetCam Cub offers the perfect solution for barrier and site entrances and is available in 5m, 7m, 10m and 15m options. In each case a 3m wide area will be viewed.

The JetCam Fox offers a wider choice of options including 5m, 7m, 10m, 15m, 20m, 30m and 40m capture ranges. It comes with an ANPR camera module for plate capture with optional day/night camera module for acquiring contextual images of the vehicle. The white light option is also available where non-reflective plates are required to be captured.

Image from CCTV Camera



Image from Fox Camera



Features & Benefits

Cost Effective

Low-cost day and night solution for ANPR

Integral infra red LED Illumination

Long life, low power consumption with high reliability for 24 hour number plate recognition

Compact Design

Discreet compact design with bracket included making it easy to install

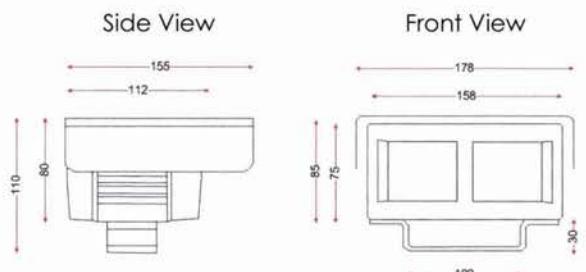
Factory Calibrated

Supplied calibrated and tested ensuring the product works straight out of the box

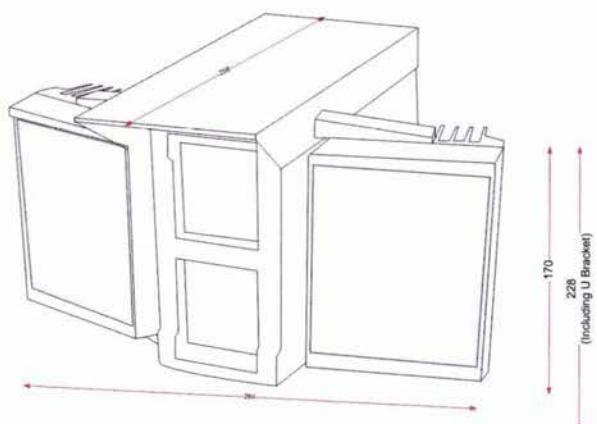
Deployment

- Car Parks
- Site Entrances
- Toll Booths
- Hotels
- Traffic Monitoring
- Industrial Estates

JC-CUB-10



JC-FOX-10 / JC-FOX-11



Technical Specification

ANPR Range

Cub 5m, 7m, 10m, 15m

Fox 20m, 30m, 40m

Sensor (ANPR)

1/3" CCD

Pixels

752 x 582

Resolution

570 TVL

Sensitivity

0.005lux @ F1.2 3200°K

Signal to Noise

>48dB (AGC off)

Video Output

1 Volt peak to peak (75Ω)

Supply Voltage

Cub

15V DC

Fox

15V DC

Power Consumption

Cub

20W

Fox

<40W

Operating Temperature

-15° to +55° C

Operating Humidity

20% to 90% RH

Storage Temperature

-20° to +60° C

Storage Humidity

Up to 98% RH

MTBF

>50,000 hours at 25° C

Illumination

Multi LEDs

Dimensions

Cub 80 x 162 x 108mm (H x W x D)

Fox 162 x 288 x 180mm (H x W x D)

Brackets

U Bracket standard

Various mounts available



Specifications subject to change without notice



JetCam Bollard ANPR Cameras

JetCam Bollard Front View



JetCam Bollard Rear View



The JetCam Bollard range of cameras offer optimum performance for access control systems 24 hours a day in varying lighting and weather conditions. The housing provides a mounting for the ANPR camera at approximately the same height as front car plates, reducing the issues with line of sight problems i.e. tailgating or queuing traffic.

The cameras are designed to work with the infra red retro reflective properties of number plates; the lighting and filtering technologies employed overcome issues associated with traditional CCTV cameras such as headlight glare.

Features & Benefits

Weatherproof Housing

Prevents infiltration of dust and rain

Camera Height

Same height as car plates reducing issues with line of sight

Slanted Housing Roof

Prevents people sitting on them

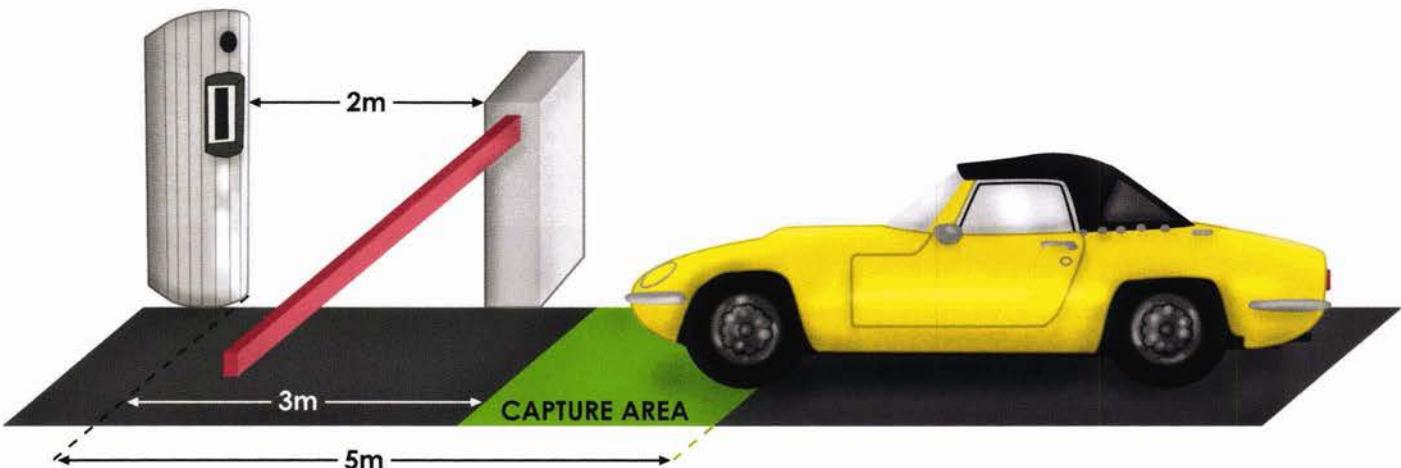
Large Access Door

For easy set up and maintenance

Epoxy Coating

Reduces discolouration of the housing

Typical Bollard Positioning



Deployment

- Car Parks
- Site Entrances
- Access Control

The bollard is in three main parts:

Housing

The weatherproof stainless steel housing is clear epoxy coated to reduce the discolouration of the housing itself. The rear of the unit has a removable door which locks into place. This gives easy access to the camera and power supply.

Camera

The camera unit comprises 1/3" camera, lens, infra red illuminators, power supply and externally rated housing. The unit is mounted vertically to ensure the best possible profile for the bollard. The camera's position can be optimised by rotating the bollard itself and adjusting the internal mounting bracket. An optional IP rated overview camera is also available.

Root Mount

The concrete plinth must be of minimum dimensions 350mm x 350mm. The recommended depth of concrete is 350mm with a maximum of 200mm above the road surface to allow for optimum camera/vehicle number plate alignment.

The cable ducting or conduit should be in the centre of the plinth to allow the cabling to enter the bollard base section through the centre hole. The mains cable is typically 20mm SWA and coaxial cable is typically RG11/CT125. It is recommended that the coaxial cables be terminated into RG59 at each end. A 5 Amp fused spur should be fitted inside the bollard and connected to the camera power supply unit using flexible mains cable.

Technical Specification

ANPR Range

Options:
3 - 5m range
5 - 7m range
7 - 10m range
11 - 15m range

Sensor

1/3" CCD

Pixels

752 x 582

Resolution

580TVL

Sensitivity

0.03 lux @ F1.2

Signal to Noise

>50dB (AGC off)

Gamma

0.45/1.0

Gain Control

AGC 28dB

Scan Mode

Internal

BLC

ON/OFF

Iris Controls

Electronic

Video Output

1 Volt peak to peak (75Ω)

Supply Voltage

15V DC

Power Consumption

20W

Operating Temperature

-10° to +50° C

Operating Humidity

20% to 80% RH

Storage Temperature

-10° to +70° C

Storage Humidity

Up to 90% RH

Illumination

Multi LEDs

Dimensions

768 x 253 x 228mm (H x W x D)



Specifications subject to change without notice



JetCam Fox HD



Two lanes of traffic can be monitored with one Fox HD camera.



High Definition Infra Red ANPR Camera

The JetCam Fox HD Dual GigE camera is designed for use in applications where high resolution ANPR images are required such as dual or wide traffic lanes. In these situations two analogue cameras often have a 'blind spot' between the lanes and three cameras are normally required for 7m wide fields of view. Such clusters of cameras can look unsightly and are expensive to install and maintain.

Standard analogue ANPR cameras cannot be used in situations where more vertical resolution is required such as in DSRC Tagging systems (Dedicated Short Range Communications). In such cases cameras are usually mounted high (6 – 7m) and are expected to read plates of vehicles within the normal DSRC range (7 – 12m). This increased vertical angle results in distorted plates which can only be read at high accuracy by using high resolution vertical imaging. The JetCam Fox HD camera delivers this.

The JetCam Fox HD has a horizontal resolution of nearly 1400 pixels easily covering 6 – 7m of road. The increased vertical resolution of over 1000 pixels is utilised by the Jet ANPR Engine which is able to capture several images as traffic passes resulting in increased recognition accuracy. The vertical resolution maybe linearly traded off against frame rate if required.

A new wide lane power-managed LED technology has been employed ensuring that the Infra Red illumination accurately matches the wider field of view. This increased performance means that the camera will capture plates at night against full headlights at a distance of approximately 40m.

The star feature of the JetCam Fox HD Camera is its intelligence. Communication with the camera is via a GigE digital interface which means that the camera can be controlled in real time from the Jet ANPR Engine which constantly monitors the brightness and condition of all recognised number plates. Jet then applies dynamic control to various settings such as high-quality digital gain and shutter speed – fine tuning the resulting image which is then fed to the ANPR computer. This dramatically improves ANPR recognition in very difficult and changeable lighting conditions.

But it doesn't end there. High Definition ANPR images require accurate vehicle identification and so the camera is equipped with a second colour HD camera available in several resolutions up to 1280 x 960 delivering one or more crisp overview images with every plate captured.

These can be viewed using JetBase where the operator can zoom into each image accurately identifying key features.

The JetCam Fox HD is available with various combinations of lenses for both cameras. The unit is compact measuring only 18cm in length powered from an external 24V (AC/DC) supply making it both flexible and safe to install and the camera can be attached to a pan & tilt unit.



Features & Benefits

- GigE Vision High Bandwidth Connection
- 100m CAT6 cable length
- No Frame Grabbers Required
- Progressive scan mode CCD
- Outstanding image quality on both cameras
- Constant depth of focus all over the sensor
- Long range ANPR reading
- Highways Agency approved bracket available

Deployment

- Congestion Charging
- DSRC Integration
- Dual Lanes of Traffic
- Bi-directional Traffic
- 6m+ Wide Roads
- Compound Entrances
- Motorway Bridges
- High Poles
- Steep Angles
- Small Plate Text
- Long Range
- Day/Night use

Technical Specification

ANPR Range

3m to 40m day time, 3m to 40m night time

Sensor Size

1392 x 1040 pixels

Sensor Type

Sony ICX 285 Progressive Scan CCD

Optical Size

2/3"

Pixel Size

6.45 µm x 6.45 µm

Max Frame Rate

17-34 fps

Gain

0dB to +31db

Gamma

Custom

Shutter

1/12th - 1/50000th sec

Exposure Control

Programmable via GigE

Video Output Type

Gigabit Ethernet GigE Vision compatible

Synchronisation

Via external trigger, or free run

Illumination

Multi LEDs with separate lenses

Supply Voltage

24V AC/DC

Power Consumption

30W

Lens Mount

C-Mount; CS-Mount (optional)

Housing Size (Approx)

170 x 285 x 260mm (H x W x D)

Weight (Approx)

4.5 Kg

Conformity

CE, FCC, GigE Vision

Storage Temperature

-20° to +60° C

Operating Temperature

-15° to +55° C

Brackets

Various mounts available

Cable Length

100m to repeater



Specifications subject to change without notice



JetCam Fox-i

Intelligent High Definition Infra Red ANPR Camera

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 4GB of flash memory as standard, additional memory available on request.

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



The integral ANPR camera has a High Definition resolution of 1280 x 960 for deployment on wide lanes, Toll Plazas or site entrances up to 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 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 4GB* of event data internally for later transmission. This means that over 1.6 million plates (data only) – or over 130,000 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.

*800MB used by Operating System & Software

Features & Benefits

- Runs JetBase Live and is JetStream Compatible, keeping in line with the rest of the CitySync range.
- Configurable Resolution – up to 1280 X 960, giving you a much larger capture area than a PAL resolution camera
- Motion Detection for vehicles with no plates, so you don't miss a thing
- 1000/100 Base-T Connection for effective data transmission
- Highways Agency Approved Bracket that can be used for all roads
- Over-Air Software Updates, reducing maintenance costs
- Integral GPS Receiver, to give accurate camera location and time synchronisation
- 3G Modem option for when a cable network isn't possible
- Lightweight and under 5kg suitable for Highways Agency

Deployment

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

Technical Specification

ANPR Range

6 - 25m

Sensor (ANPR)

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

512MByteDDR2 400 RAM

CF Memory

4GB as standard, additional memory available

Watchdog

Both Internal CPU and 3G

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

Supply Voltage

15V DC

Power Consumption

37.5W

Storage Temperature

-20° to +60° C

Operating Temperature

-15° to +55° C

Weight

4.3 Kg Separate PSU

4.8 Kg Integrated

Dimensions

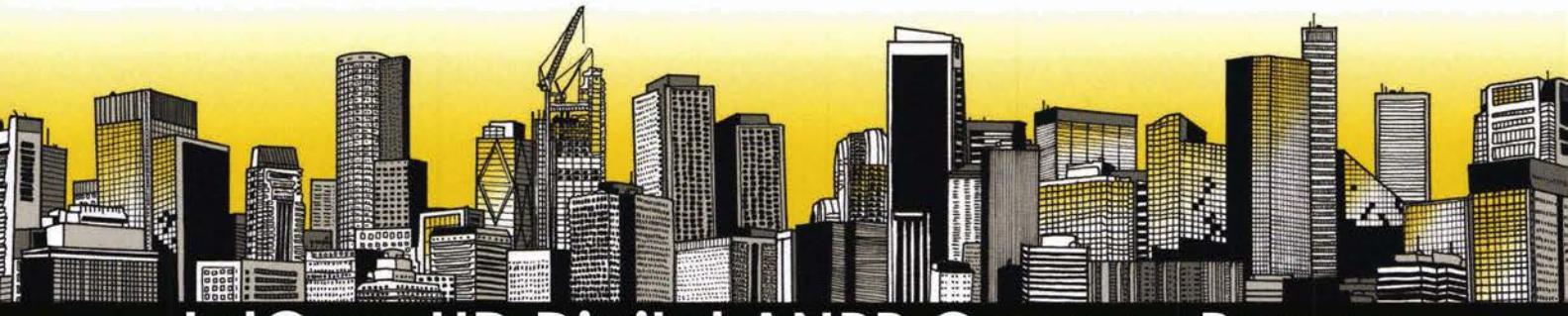
86 x 179 x 320mm (H x W x D)

Brackets

U Bracket standard (Various mounts available)



Specifications subject to change without notice



JetCam HD Digital ANPR Camera Range

JetCam HD GigE 1300/1400



JetCam HD IP 1300 d/n



JetCam HD GigE 1300/1400

With a resolution of either 1280 x 1024 or the higher resolution 1392 x 1040, these monochrome GigE camera modules were originally developed for the Machine Vision market and consequently produce crisp images of vehicles and plates.

The 1400 model will easily read plates across a field of view of 6m using a Sony 2/3" sensor.

Both models can be connected directly to a computer with Gigabit Ethernet which supports Jumbo Frames.

JetCam HD IP 1300 d/n

This colour IP camera can be connected to almost any PC via Ethernet. At night the IR cut filter is withdrawn for use in very low light conditions.

The 1300 model will easily read plates across a field of view of 5m.

The 1300 can be connected using 100 Base T Ethernet.

The new JetCam HD Digital ANPR Camera Range consists of a comprehensive choice of compact cameras which are offered without external housings and IR illumination for customers who want to mount the cameras for example inside a vehicle – or install them in their own housings.

There are two groups of cameras within the range: Digital GigE Cameras and Digital IP Cameras.

The GigE cameras are very High Definition and deliver crisp images to a processing PC using Gigabit Ethernet. These are raw images and therefore of the utmost quality when extremely high recognition rates are required. GigE cable lengths are restricted to 100m in length without using repeaters or fibre.

The IP cameras are a lower cost option. These use on-board processors to compress the images to M-Jpeg or Mpeg streams where they are directly connected to host PCs using standard CAT5 cables or they may be connected to an Ethernet switch on a 100BaseT network.

Both types of cameras do not need frame grabbers, the HD camera simply requires a single GigE Ethernet Port and the IP a minimum of 100 Base T connection (as can be found on a laptop or covert PC).

Specification

Features	JetCam HD GigE 1300	JetCam HD GigE 1400	JetCam HD IP 1300 d/n
Sensor Size	1280 x 960	1392 x 1040 pixels	1280 x 960
Sensor Type	Sony ICX 445 PS CCD	Sony ICX 285 PS CCD	Sony Exview HAD CCD
Optical Size	1/3"	2/3"	1/3"
Full Res Frame Rate	17fps	17fps	11fps
Reduced Res FR	32fps	30fps	30fps
Colour	mono	mono	Colour day / night
Shutter	1/12th - 1/50000th sec	1/12th - 1/50000th sec	1/2 - 1/20000th sec
Exposure Control	Programmable via GigE	Programmable via GigE	Programmable via IP
Video Output Type	Gigabit Ethernet	Gigabit Ethernet	M-JPEG
Synchronization	Ext trigger or free run	Ext trigger or free run	Free run
Power Requirements	15VDC 0.2A	15VDC 0.2A	12VDC 0.4A
Typical Power Draw	3W	3W	5W
Lens Mount	C-mount, CS-mount (optional)	C-mount, CS-mount (optional)	CS-mount DC Iris Drive
Size (L x W x H)	74 x 44 x 29mm plus lens adapter	74 x 44 x 29mm plus lens adapter	90 x 44 x 29mm plus lens adapter
Weight	150g + lens	160g + lens	230g + lens
Storage Temperature	-20° to 80° C	-20° to 80° C	-20° to 80° C
Operating Temperature	0° to 50° C	0° to 50° C	0° to 50° C
Conformity	CE, FCC, DCAM, RoHS, IP 30	CE, FCC, DCAM, RoHS, IP 30	FCC Class B, CE, RoHS
Cable length	100m to repeater	100m to repeater	100m to repeater



Specifications subject to change without notice



JetGrabber Cards

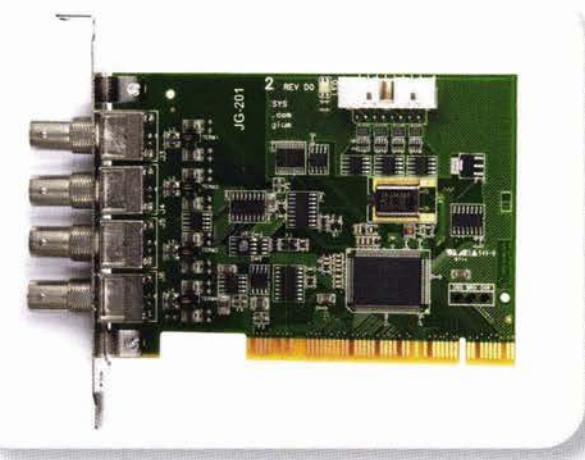
CitySync offer a range of video grabber cards to suit all applications and budgets. Each card is fully tested with the CitySync Jet Engine and range of ANPR hardware.



JG-201 Video Capture Card

- 4 video inputs
- Quick switching between channels
- High quality imaging
- PCI 32bit, 33MHz, 5V
- 1.7W (240mA @ 5V, 10mA @ +12V, 30mA @ -12V)
- FCC Class B & CE
- 1 camera 50fps, 2 cameras 10fps, 3 cameras 7fps, 4 cameras 5fps

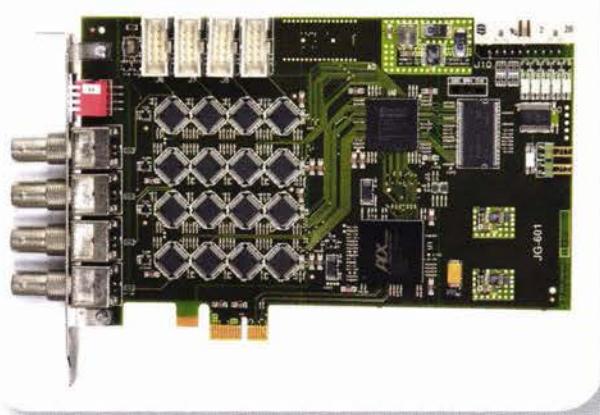
The JG-201 is the leading PCI capture board specifically designed for video surveillance applications with multiple cameras. The JG-201 supports the acquisition of full resolution colour images including the square-pixel resolution (640 x 480 or 768 x 576). Up to 4 composite video signals are captured directly through standard BNC inputs. The quick switching capability offers an optimized frame rate for all acquisition conditions.



JG-601 Video Capture Card

- 4 video inputs expandable up to 12 video inputs
- FPGA technology providing 200fps
- PCI 64/32 bit, 66/33 MHz, 3V or 5V signalling
- PCI express full height, half length x 1
- Integrated JetBase Drivers
- 4 cameras 50fps per camera, 12 cameras 15 fps per camera

Unrivalled level of video acquisition speed and image quality. 200fps constantly available and non disruptive acquisition. This is not a peak value as the new JG-601 boards provide a constant availability of 200fps for PAL cameras with any camera configuration.



JG-401 Video Capture Card

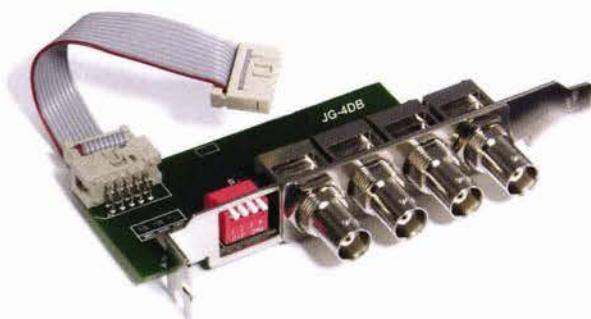
- 4 video inputs
- 200fps
- Conventional PCI 64/32 bits, 66/33 MHz, 3V or 5V signalling
- PCI full height, half height x 1

The JG-401 is a 4-channel video capture card. Equipped with video-surveillance FPGA, the boards are able to acquire images from up to 50 frames per second from all 4 cameras. The JG-401 is also equipped with four robust on-board BNC connectors.



JG-4DB Expansion Card

- 4 video inputs per card
- Up to 2 JG-4DB can be connected to a single JG-601



Specifications subject to change without notice



JetMate



JetMate is the new hand-held Automatic Number Plate Device from CitySync.

JetMate is a fully portable hand-held ANPR device running our internationally respected ANPR Recognition Engine and a range of application software. The unit is supplied with a choice of Windows CE or Windows Mobile Operating Systems.

JetMate speeds up the process of collecting vehicle number plates in the field by up to 30 times over manual collection. The number plates can be immediately checked against a database or later downloaded depending on the application.

What does the device look like?

The device is based around the latest Casio technology and has a high definition on-board camera and 128Mb of RAM which will allow the ANPR engine, application software and up to 5000 number plates and vehicle images to be captured in one session.

How does it work?

The Device is pointed at the number plate of stationary vehicles as shown above.

The number plate would then be read automatically and stored with the captured image, date and time. The above information will be displayed on screen and added to a log file.

The accuracy of the Jet engine, in addition to the storage capacity of the Casio unit, provides the user with the raw materials to adapt their own personalised applications. At CitySync we realise that each client's needs are different and as such we don't want to limit you to set functions.

With this in mind, we provide all of our handheld devices with an SDK (Software Development Kit). This enables our clients to write their own software applications to suit their own needs with the full support of one of our expert developers.

How is the information transferred?

When **JetMate** is returned to its cradle for recharging all the collected data (including plate images) can be instantly transferred to a host PC.

Features & Benefits

- Portable handheld
- Lightweight for carrying for long periods
- Comfortable Grip
- Touch screen and Stylus for ease of use
- Auto-focus and LED light for 24 hour use
- Hi-capacity battery for many hours usage
- Point & Click Operation for simplicity
- Data Gathering Facility with back up storage when a network is not available
- CitySync Patented Technology

Deployment

Car Park Attendants / Traffic Wardens

The first time JetMate captures a number plate the vehicle details can be logged – vehicle image, plate details, date, time and GPS location.

The next capture will determine the length of stay. An optional printer (infra red / Bluetooth) can then print out a ticket or report.

Car Park Overnight Checks

Allowing a daily audit to be taken in busy car parks such as airports. Data is simply gathered as a guard patrols the car park.

Security Guards

Spot checks on suspect vehicles by security staff at high security sites, linked to a database of employees, ex-employees, undesirables etc.

Police and Customs

Spot checks on vehicles linked to a shortened form of PNC database or similar. Report a hit when a wanted vehicle is captured.

Car Supermarkets

Used by staff or loaned to potential buyers browsing. When used, all the data for that vehicle will be displayed automatically for the buyer to see (mileage, service history, previous owners, specification etc).

Mechanical Specification

Dimensions

46 x 87 x 242mm (H x W x D)

Weight

550-595g (Approx)

Environment Operating Temperature

-20° to +50° C

Technical Specification

Operating System

Windows CE 6.0

Memory RAM

128MB

Memory F-ROM

128MB (user area 60 MB)

CPU

Marvell PXA320 624MHz

WWAN

EDGE, GPRS, GSM (850/900/1800/1900 MHz)

WLAN

IEEE802.11b/g with WPA2 support

GPS

16 Channel-receiver, L1 1575.42 MHz, C/A code, NMEA-0183 protocol

Bluetooth

Bluetooth® Ver.2.0 (Class 2) with EDR

IrDA

IrDA Ver.1.3 Low power (maximum: 4Mbps)

Integrated Colour Digital Camera

2.0 megapixels C-MOS, AUTO-FOCUS, LED Flash

Display Type

3.5-inch advanced QVGA colour LCD with touch panel

Screen Resolution

240 x 320 dots, 65,536 colours

Interfaces

SIM card - IS07816 IC Card Standard

Micro SD - Compatible with the SDHC

Extended Port - For connecting an external device

USB Port - Version 1.1 (Host/Client via cradle)

Environment Dust/Water-splash proof

Compliant with IEC60529 standard, level IP64

Drop durability (height)

1.5 metres to concrete

Barcode Scanner

C-MOS imager (GR-30C, GR-30, R-30)

Semi-conductor laser (GR-10, R-10)

Power Operation

Lithium-ion battery pack (HA-G20BAT) 7.4V/2,000 mAH

Consumption = 14.8w

Specifications subject to change without notice



JetMobile™



Law Enforcement ANPR Software

JetMobile™ is a simple to use ANPR system that can be installed on your existing laptop or in-car processor creating a powerful mobile Automatic Number Plate Recognition system. Police users can select from a range of cameras such as the compact aerodynamic JellyBean Camera in order to meet today's challenging ANPR requirements.

In addition, long range zoom cameras can be unobtrusively installed inside the vehicle allowing officers to capture plate images covertly and check all results against up to 200 hotlist databases in real time.

Key to its success is the officer friendly user interface which contains large clearly identified buttons allowing users to easily interact with the system during vehicle operation. The touch screen interface removes the need for a keyboard and mouse whilst audible number plate alarms can be processed with a couple of button pushes.

JetMobile™ can capture number plates from vehicles travelling at speeds of up to 150mph. Two dual ANPR cameras can be connected to a single Panasonic laptop or equivalent using the CitySync Hippo IP converter and up to six cameras can be connected using the powerful Jet Mobile PC™ in-car ANPR processor creating a very formidable Police ANPR vehicle with panoramic ANPR vision.

The system includes a GPS mapping system which accurately records the exact position and precise time stamp of every ANPR read and hit. At the end of every shift all collected plates can be wirelessly uploaded to the Jet Back Office Suite JetBOF™ or the National BOF-2 along with all plate hits. This data contains plate details and colour images of the captured vehicles together with all capture locations. Hotlists can then be synchronised and new Hotlists downloaded to the car ready for the next shift.

Deployment

- Counter-Terrorism
- General Surveillance
- Intelligence Gathering
- Targeted Vehicle Operations
- Recovery of Stolen Vehicles
- Traffic Management
- Local / National Hotlist Apprehension
- Speed Enforcement
- Car Park Surveillance

Features & Benefits

- Capturing and archiving number plates has proved invaluable to investigative and criminal intelligence
- Officer safety is aided by providing on-screen driver/owner information prior to approaching a vehicle
- Simple Touch screen interface
- Captures plates at up to 150mph
- 200 Hotlists can be checked simultaneously
- Instant manual input of wanted vehicles into a local Hotlist
- Configurable alarms allowing warnings to be given higher or lower priorities
- Colour images of every passing vehicle are saved along with all plate details

- The GPS co-ordinates of every passing vehicle are captured
- ANPR text is overlaid onto each image for evidential use
- Officers can instantly search all saved data using full or partial plate details or by approximate time
- Mosaic display of all recent captures for easy identification of vehicles
- JetBOF and National BOF-2 link
- Real Time Video Recording (DVR Function)
- Full screen accurate camera focus & setup
- Administrator mode to setup users & features

Touch screen camera
setup for rapid re-
configuration.



Multi-camera number
plate reads as the police
car patrols.



Touch screen prioritizing of
hotlists with configurable
audible alarms.



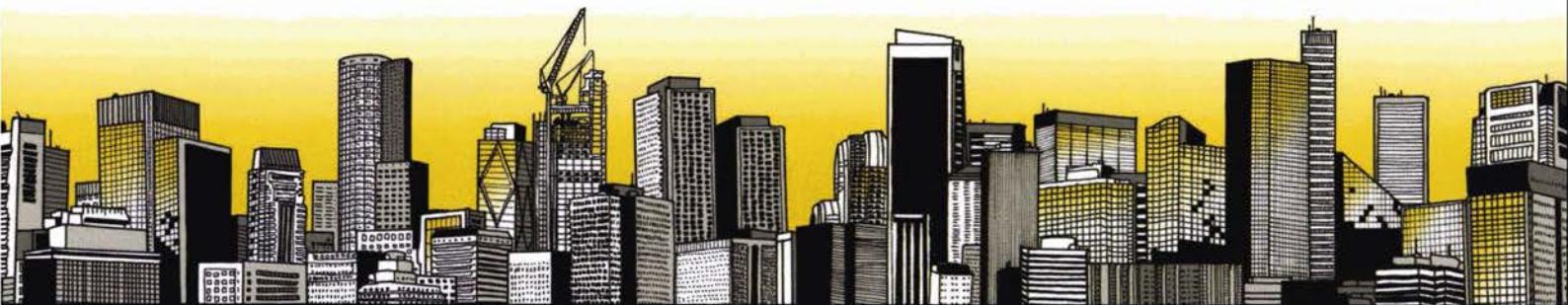
Recent captured plates
can be quickly searched
or examined.



Visual and audible alarms
give instant alerts to the
driver.



Mosaic display of recent
captures



Specifications subject to change without notice.



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JetOnline - ANPR Web Browser

CitySync JetOnline

Showing records 1-19/19 [NoRefresh]

Filter Date is between 05/03/2007 and 05/03/2007, and Category is Employee [Reset Filter]

[Phone]	Category	Driver Name	Date/Time	Lane	Action
K1234567	Employee	Rosie Anne	05/03/2007 09:26:49	HD In-Lane	CR
P1234567	Employee	Aidan McErl	05/03/2007 09:11:03	HD In-Lane	CR
E1234567	Employee	Adam McErl	05/03/2007 09:11:06	Great North Road	CR
V1234567	Employee	Brian O'Brien	05/03/2007 09:51:08	HD In-Lane	CR
L1234567	Employee	Gerry O'Brien	05/03/2007 09:51:57	Great North Road	CR
T1234567	Employee	Jean Phearl	05/03/2007 09:51:18	HD In-Lane	CR
U1234567	Employee	Jean Phearl	05/03/2007 09:51:27	Great North Road	CR
N1234567	Employee	Mary Beggs	05/03/2007 09:50:29	HD In-Lane	CR
O1234567	Employee	Mary Beggs	05/03/2007 09:50:34	Great North Road	CR
R1234567	Employee	Lorraine Black	05/03/2007 09:47:24	HD In-Lane	CR
E1234567	Employee	Lorraine Black	05/03/2007 09:47:33	Great North Road	CR
H1234567	Employee	Frank Furler	05/03/2007 09:49:06	HD In-Lane	CR
M1234567	Employee	Frank Furler	05/03/2007 09:49:05	Great North Road	CR
S1234567	Employee	Rosie Connolly	05/03/2007 09:38:05	HD In-Lane	CR
F1234567	Employee	Rosie Connolly	05/03/2007 09:38:40	Great North Road	CR
C1234567	Employee	Harriet Hill	05/03/2007 09:32:38	HD In-Lane	CR
D1234567	Employee	Harriet Hill	05/03/2007 09:32:39	Great North Road	CR
V1234567	Employee	Alan O'Brien	05/03/2007 09:26:05	HD In-Lane	CR
L1234567	Employee	Alan O'Brien	05/03/2007 09:25:52	Great North Road	CR

Page 1 of 1 | Sample to page: 1 | Last

CitySync JetOnline

Results for Traffic Volume by Category, where Date is between 05/03/2007 and 05/03/2007:

Category	Total traffic
Unknown	85
Employee	19
Frequent Visitors	22
Local Business	3
Resident	40
Visitor	7
Total	170

Traffic Volume by Category

[Perform Another Analysis]

User: Jackie | Log Out | Copyright 2007, CitySync Ltd.

JetOnline is a web-based ANPR browsing and editing system that allows local network or remote users to log onto a central ANPR System using a standard Web Browser such as Microsoft Internet Explorer®. Once connected, users can edit the ANPR vehicle database (if permitted) and add new vehicles and driver details. Alternatively users can browse or search the ANPR events for specific vehicle movements or look at a range of vehicle events over a specified time - all without having any additional software installed on the viewing PC. It's all done via the web!

JetOnline consists of two main application areas: JetBook and JetLog.

JetBook gives remote access to the driver and vehicle database. Users can add, edit or delete records from the database or import other databases. Multiple users within an organisation can log on at the same time to add records for new employees, or add expected visitors so that the remote ANPR system allows them access to a site.

JetLog provides historical details of all vehicle movements recorded by the ANPR system including images captured.

The results are initially displayed as a list with the most recent record at the top of the page. The user may then simply scroll through the log file pages. Alternatively, powerful searches may be instantly performed on all historical data using a wide range of search criteria such as date, exact time, plate or partial plate details etc. Searches can include wildcards.

The example shown illustrates the results of a remote search upon the 'Employee' category on Monday 5th March 2007. By clicking on any entry listed, the ANPR and colour overview images of that vehicle are displayed, and can be printed out for later use.

Included with JetOnline is a Data Analysis function. This allows a user to search through the ANPR data and perform various analyses such as calculating hourly volumes of traffic passing an ANPR camera, or highlighting any frequent visitors arriving at a site which may merit further investigation.

Another use would be analysing site data by category (employee, visitor, contractor etc) over a set period of time. The results are displayed both numerically and graphically as shown in the example.

Access can be restricted to certain database categories depending on configurable user permissions. This is very useful for sites with multiple tenants.

JetOnline is often used to monitor what is going on at a remote ANPR site – which may or may not be manned. A security supervisor may simply want to monitor vehicles entering and leaving regional distribution centres and a WebCam facility is included in order to enable this. Once selected, the user receives video snapshots every few seconds from the selected remote ANPR camera (or colour overview camera). Note that an overview camera may be used to view people, equipment and other objects and is not restricted to solely capturing vehicle images.



Technical

JetOnline uses Microsoft SQL Server 2008, so multiple user access does not affect the ANPR system performance.

Records can be added/edited simultaneously from all remotely logged-on users.

JetOnline has been tested using Microsoft Internet Explorer 6, 7 & 8, Mozilla FireFox 1 & 2 and Safari 2 & 3, so can be logged into from any platform that has one of these web browsers installed.

JetOnline utilises Microsoft's IIS Server but should also work using other web servers.

Features & Benefits

- Web-based ANPR allows remote access
- Multiple users can log on and edit at the same time
- Data log provides easy search facility of historical data
- Data analysis function for further data comparisons
- Graphical display for easy-to-read results
- Restrict access to certain database categories

Deployment

Law Enforcement

Ability to search for vehicles of interest from a remote location.

Large Company Booking System

Multiple operators can pre-book visitor vehicles into the system.

University Car Park Management

Students / visitors can register / book vehicles into the site.

Supermarket Management

Head office can log onto any store to analyse data and check the latest volume of traffic on the site.

Data Checking on the Move

Mobile devices such as laptops can be used to edit remote data, view webcams or check for suspect vehicles.

Industrial Estate

Multiple tenants can access the event history



Specifications subject to change without notice



JetPlain - Entry Level ANPR Systems



ONE BOX CONTAINS ALL YOU NEED TO GET STARTED:

Save up to 30%*

- Tower PC with Windows 7 operating system
- 19" TFT Monitor with Audio
- Keyboard and Mouse
- JetPlain software (recognition and application)
- Video Capture Card
- Relay Card (Optional)
- JetCam Cub Specialist ANPR Camera (including fixing bracket)
- Quick Start Guide

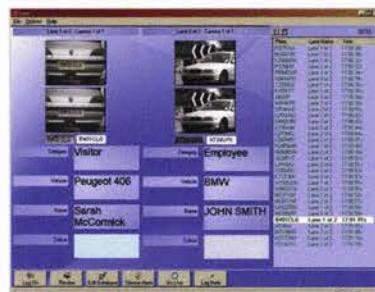
*based on buying individual components

JetPlain is a complete Automatic Number Plate Recognition System supplied in one box. It offers a cost effective solution for up to 4 lane standalone applications without compromising on quality. Key to the system is CitySync's powerful Jet Recognition Engine used world-wide in mission critical security and law-enforcement applications.

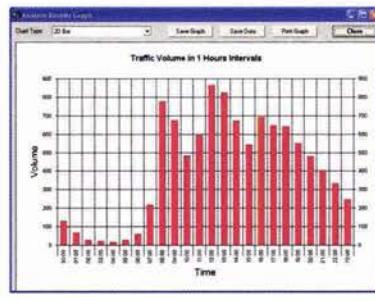
JetPlain includes an on-board database which the system uses to match against approaching vehicles, the software then displays any known driver and vehicle details. The system will also open barriers using the supplied Relay Card or sound an audible alarm.

The system is simple to set up. Cameras are connected to the PC via a standard coaxial cable and factory settings allow the system to begin to read plates as soon as the camera is in position. Overview cameras can be added to the system to provide a colour contextual image of the vehicle if required.

Live Interface



Analysis Results



Camera Options

JC-CUB-10-8 (3-5m range) barrier traffic
JC-CUB-10-12 (5-7m range) barrier traffic
JC-CUB-10-16 (7-10m range) barrier traffic and up to 15mph traffic
JC-CUB-10-25 (11-16m range) Up to 40mph traffic

JetPlain Components

PC & Software Package



JPC-TWR-000

ANPR PC, Mid tower chassis, Intel P4 3GHz processor, 250GB hard drive, 2GB RAM, Windows 7 operating system complete with keyboard and mouse

JPCA-MON-19

19" TFT monitor complete with audio.



JG-601/201 & JG4DB

The JG-601 will allow up to 4 analogue inputs i.e. 2 ANPR and 2 Overview cameras. For 3 and 4 Lane Systems the JG-4DB will be provided giving 8 inputs



JET-001/2/3/4

USB lane license for up to 4 lanes



JET-BAS-PLAIN

The JetPlain software comprises JET-LIVE recognition engine, JET-BASE ANPR database, optional JET-BAS-MOD-RLY relay output software module, JET-BAS-MOD-LED LED sign software module and JET-REVIEW search and analysis of recorded events. Review provides reporting by date/time/lane/database field/frequency of visits/average speed between 2 points/traffic flow.

Camera Options (must be purchased with the above)

Choose either a Cub or Bollard Camera



JC-CUB-10-8/12/16/25

12VDC ANPR Camera including CCD camera, 570TVL, 0.005 lux, lens, IR illuminators and filters, external housing and fixing bracket.

JC-BOL-10-8/12/16/25

12VDC ANPR Camera including CCD camera, 570TVL, 0.005 lux, lens, IR illuminators and filters, inside a stainless steel housing.

Optional Extra



JET-PLAIN-RLY

Consists of JGIO-30 Relay card complete with 8 relay outputs and JET-BAS-MOD-RLY



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