



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.

Colour zoom feature



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