*www.I-Cube.co.za*

**I – Cube (Integrated, Intelligent, Imaging)**

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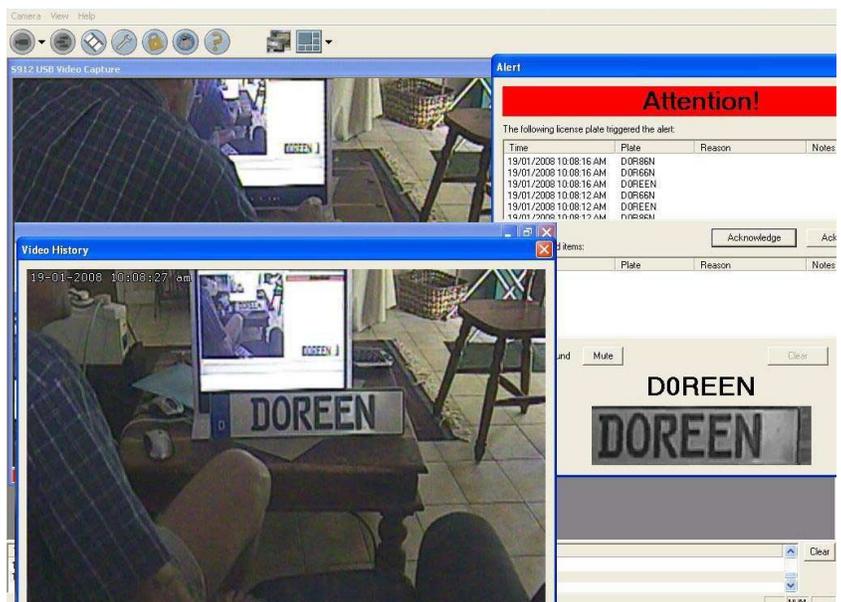Kwa-Zulu Natal
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**VAT NO 4890218607**
**Saturday, 26 January 2008**

## RE: JOINT VENTURE ON A 3rd PLATE SOLUTION FOR SA

## Dear Phil,

I-Cube or Integrated Intelligent Imaging ($I^3$) focuses of proactive crime prevention using real time links to multiple internal and external databases in order to generate a warning prior to crime occurring, allowing anticipation of the offence.  All the projects I-Cube is involved with have a central theme of using images, as this allows both the real time and covert nature of the proactive crime prevention systems to operate to the best effect.  We are excited about working with you to establish the 3rd plate solution in SA.  With over 100 sites within SA, the I-Cube customer base eagerly welcomes this innovation. The I-Cube software works with many existing cameras, allowing the system to be implemented in hundred of thousands sites around SA.  The success of the system is in the control of plate manufacture, 3rd plate attachment, vehicle registration and data capture.

**HOW THE SYSTEM WORKS:** As the car approaches the cameras a number of images are captured from the front and rear from which the license plates are extracted.  The front plate is compared to the rear plate to ensure these are identical.  All images are saved, allowing this information to be used in subsequent investigations. The license plate is then compared to a national database of third plate users. If the 3rd plate does not exist, the vehicle is investigated.  If the plates do not match the information on the 3rd plate, the vehicle is investigated.  If the vehicle is listed as stolen, appropriate action should then be taken.  If the vehicle is listed as not been registered, this is a good vehicle to investigate further.

**WHAT IS REQUIRED:** The key to proactive crime prevention using real time links is that the system does not require human intervention, it is fully automatic.  The camera automatically captures the image and the license plate is automatically compared to both local and remote databases and if required an alarm is generated.  The I-Cube solution can operate locally but using a wide range of communication means (including ADSL, 3G, GPRS, iBURST, Wireless or satellite) a real time link to multiple databases can be established, allowing immediate updates of stolen vehicles as they are added to SAPS or the insurance databases.
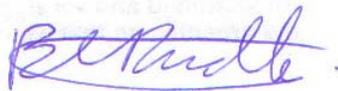
The system requires a camera linked to a computer, running the I-Cube Intelligent Software.  The software is trained to recognise the item to be logged or counted, be that people, cars or different types of products.  Once the item is logged, it can then be compared to pre-set rules or databases, allowing an alarm to be generated if the incorrect number of products exit or a vehicle enters after hours or is listed as not allowed.  The ability to link vehicle colour, weight, and driver, biometric and other info as required to the license plate gives the I-Cube system tremendous advantages.

I-Cube generates our income from providing the login, verification and identification systems which access the database.  The more people who use the database will result in a greater number of I-Cube systems being required.

Any introduction of a 2D bar code sticker would not carry a high level of security or confidence.  New plates where the information is written into the plate at time of manufacture have a very high level of security and cannot be duplicated.  Access to the database is controlled via facial recognition, and fingerprint biometrics ensuring that all transactions are logged and only valid data is entered into the system.  This means any of the 1 000 SABS approved embosses presently selling number plates who wish to sell the 3$^{rd}$ plate concept (consisting of 2 license plates and a 3$^{rd}$ plate) can simply join the program.

I wish you success in the future and firmly believe in the proposed solution.

Yours Faithfully,

## Barry T. Fryer Dudley

(MBA {IT};    MSc {Image Analysis};    BSc {Brewing};    BSc Hons {Waste Technology})

*I-CUBE (I3 - Integrated, Intelligent, Imaging)*
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