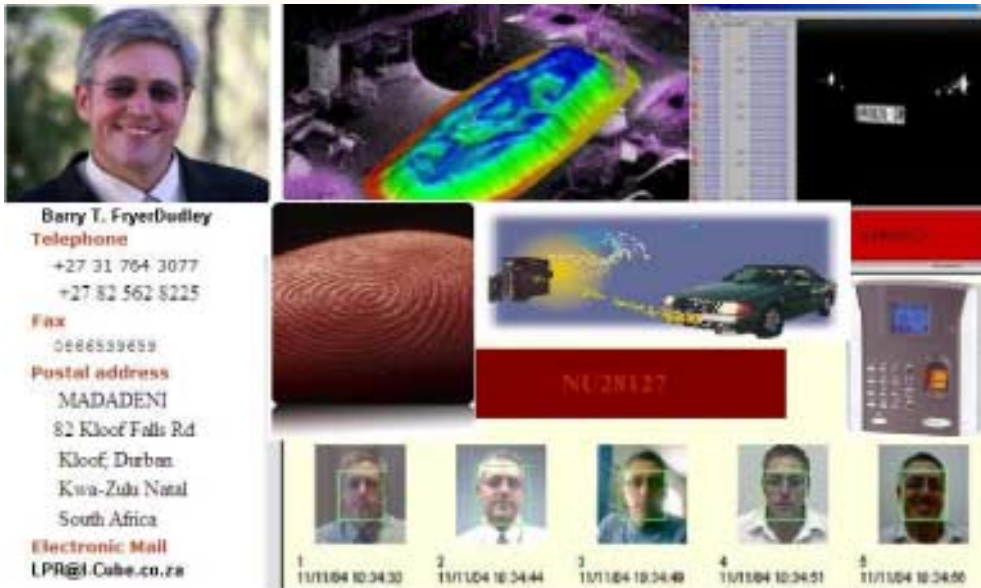


PROVINCIAL VEHICLE CRIME FORUM (PVCF)- Kwa-Zulu Natal



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1 11/11/04 10:34:30 2 11/11/04 10:34:44 3 11/11/04 10:34:49 4 11/11/04 10:34:51 5 11/11/04 10:34:55

Presented by
Barry T. Fryer Dudley
(MBA {IT}; MSc {Image Analysis})

Wednesday 21st May 2008
Mutual+ Federal Regional Office,
18 The Boulevard,
Westway Office Park,
Westville.

*"..any sufficiently advanced technology is indistinguishable from magic."
Arthur C. Clark*

May 2007



INTEGRATED • INTELLIGENT • IMAGING

I-CUBE

Agenda

- Overview
- License Plate Recognition (LPR) DEMO
- Biometrics DEMO
- Facial ID
- System design
- Customization
- Pricing
- Questions

18 18 2008 11:24:18 pm

NU 18637

March 2008

Sun	Mon	Tue	Wed	Thu	Fri	Sat
24	25	26	27	28	29	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Today: 19/03/2008

Time Start: 00:00
Time End: 00:00

Confidence: 100%
Date: 17/03/2008
Time: 07:49
Characters: 7

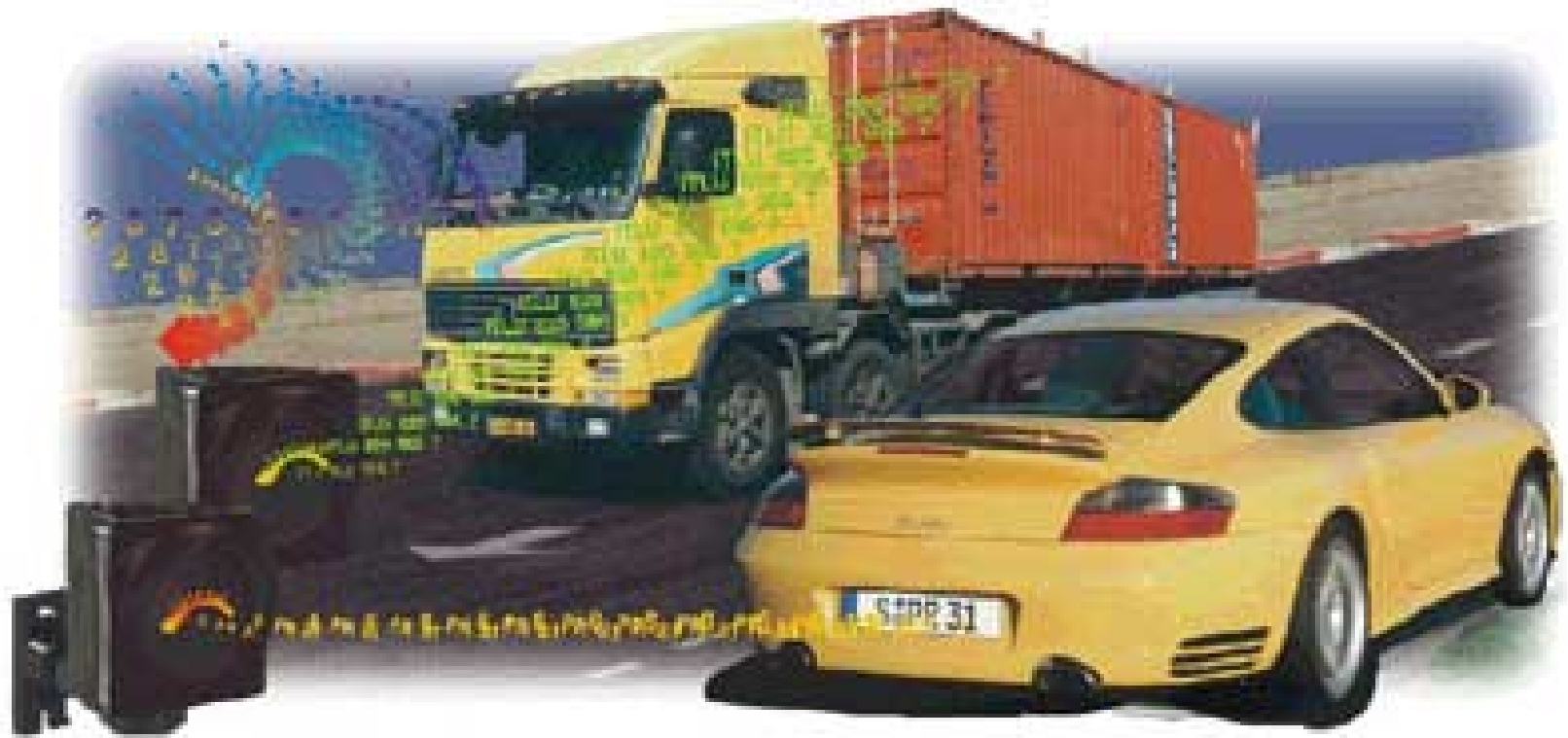
Scanned: 1 of 0
New: 0
Updated: 0
Fail: 0

Confidence
100% 1
90% - 99% 0
80% - 89% 0
<79% 0
Average: 100.00%

NU18637

16	17	18	19	20	21	22	New: 0
23	24	25	26	27	28	29	Updated: 0

Seeing Is Believing



Optical Character Recognition

OCR is an image processing technology used to identify vehicles by their license plates or trains by their unique numbers. OCR is a non-intrusive, computerised method of matching a License Plate number to a database of registration numbers.

Alternate names for OCR:

License plate recognition (LPR):

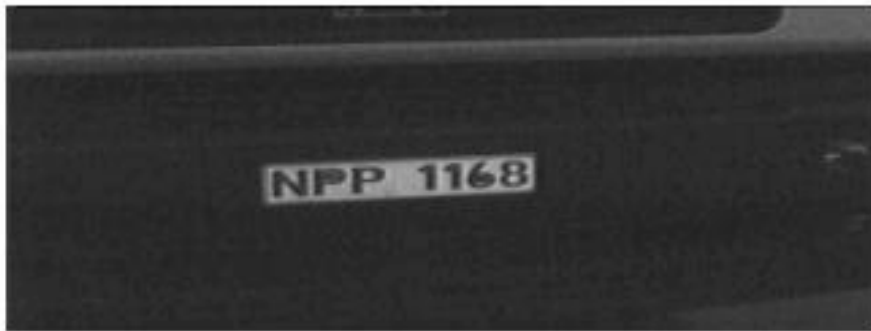
Automatic Vehicle Identification (AVI)

Car Plate Recognition (CPR)





Automatic Number Plate Recognition (ANPR)



Pulsed Illumination for 24 HR operation



Recorded Information

<i>Criteria</i>	<i>Captured</i>	<i>Result</i>	<i>Result</i>
License Plate Recognition		F NP132785 R NP132785	LOGGED
Car Shape	BMW	Type	POSSIBLE ID THEFT!!
Facial Capture		Driver	LOGGED
Car Colour		White	LOGGED
Driver biometric data		Suspected Car thief	LOGGED

No plate

- Location still recorded
- If possible, check driver biometric
- If possible, check driver facial



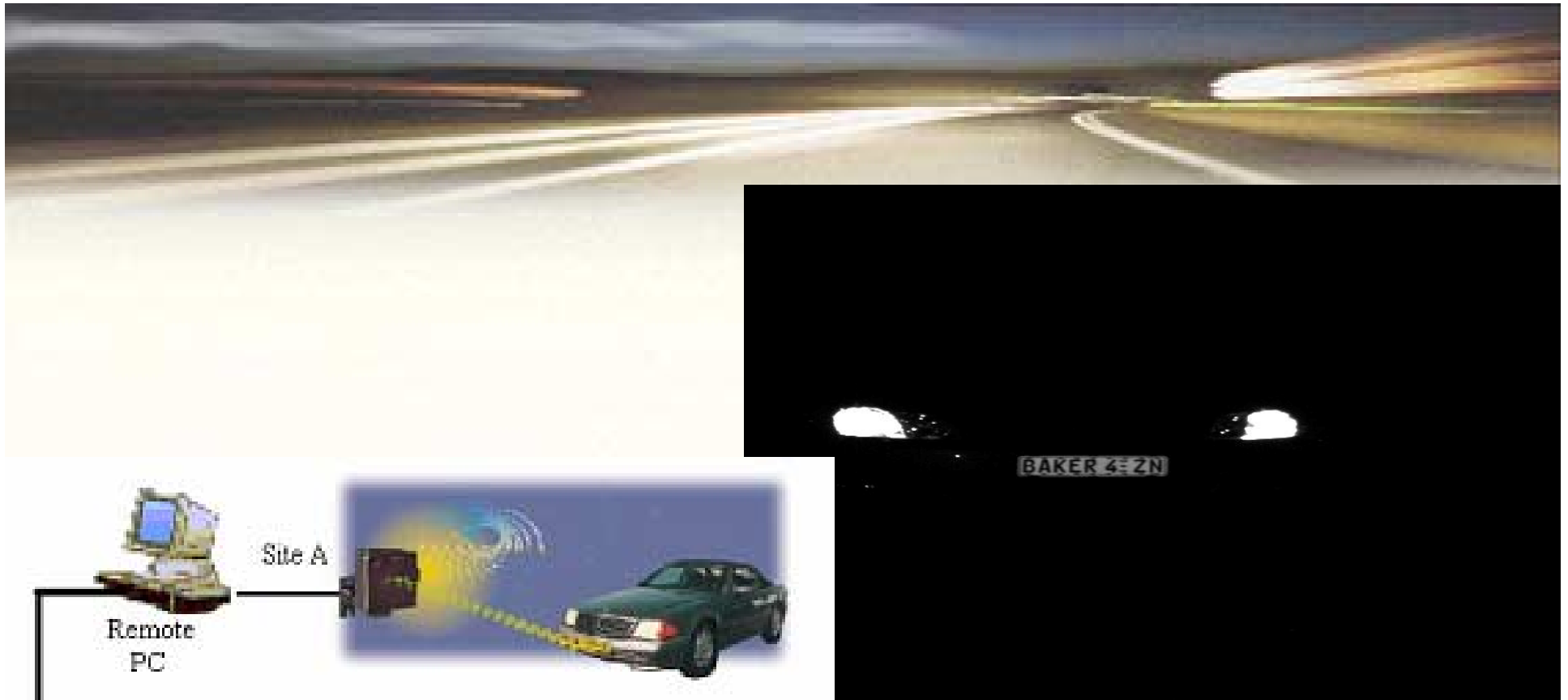
Lane 1 2008-03-19 22:12:33

Lane 1 2008-03-24 08:04:52



CONNECTIVITY





BAKER4ZN,,,,,,,,,1,No,,Thu Jul 27 18:01:45 2006,

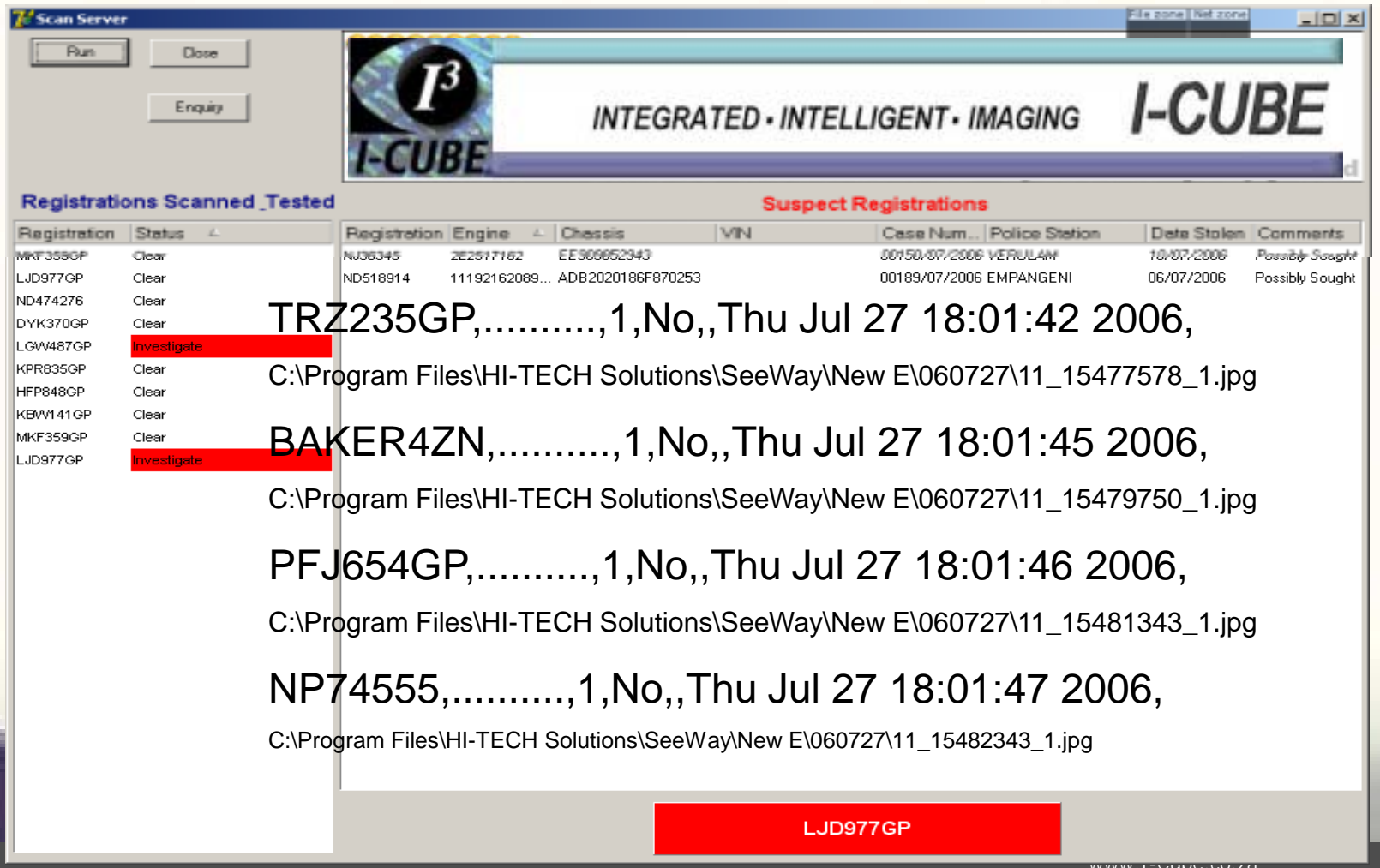
C:\Program Files\HI-TECH Solutions\SeeWay\New E\060727\11_15479750_1.jpg

**DATA is sent in REAL TIME via TCP/IP
to *Stolen Vehicle DATABASE***

NOTE: Database does not reside on LPR PC, DATA is sent to DB

Mobile Real Time Licence Plate Identification

Supplies Case Number, Police Station, Date of Theft, Vehicle Identifiers



The screenshot displays the I-CUBE software interface. At the top, there is a logo for I-CUBE with the tagline "INTEGRATED • INTELLIGENT • IMAGING". Below the logo, there are buttons for "Run", "Close", and "Enquiry". The main area is divided into two sections: "Registrations Scanned _Tested" and "Suspect Registrations".

Registration	Status	Registration	Engine	Chassis	VIN	Case Num...	Police Station	Date Stolen	Comments
MKF359GP	Clear	NJD6345	2E2517162	EE906652943		00150/07/2006	VERULAM	10/07/2006	Possibly Sought
LJD977GP	Clear	ND518914	11192162089...	ADB2020186F870253		00189/07/2006	EMPANGENI	06/07/2006	Possibly Sought
ND474276	Clear								
DYK370GP	Clear								
LGV487GP	Investigate								
KPR835GP	Clear								
HFP848GP	Clear								
KBW141GP	Clear								
MKF359GP	Clear								
LJD977GP	Investigate								

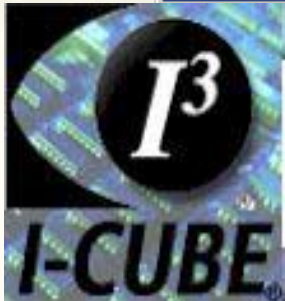
TRZ235GP,.....,1,No,,Thu Jul 27 18:01:42 2006,
C:\Program Files\HI-TECH Solutions\SeeWay\New E\060727\11_15477578_1.jpg

BAKER4ZN,.....,1,No,,Thu Jul 27 18:01:45 2006,
C:\Program Files\HI-TECH Solutions\SeeWay\New E\060727\11_15479750_1.jpg

PFJ654GP,.....,1,No,,Thu Jul 27 18:01:46 2006,
C:\Program Files\HI-TECH Solutions\SeeWay\New E\060727\11_15481343_1.jpg

NP74555,.....,1,No,,Thu Jul 27 18:01:47 2006,
C:\Program Files\HI-TECH Solutions\SeeWay\New E\060727\11_15482343_1.jpg

LJD977GP



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I-CUBE

Search

Clear

Close

Search On (1 or more)

Registration

Chassis

Engine

Vin

Results

Registration

Case Number

Engine

Station

Chassis

Date Stolen

Vin

Investigate !

License Plate Recognition

247 LPR Server

Camera/
Illumination unit

RG59 /
IP /
twisted
pair /
Wireless
/ ADSL /
3G /
iBurst

Open boom / Display message / Generate alarm

247 LPR Client

Possibly on site,
remote or mobile

LPR

NU18637

The screenshot shows a license plate image with the text "NU 18637". Below it is a data table with the following content:

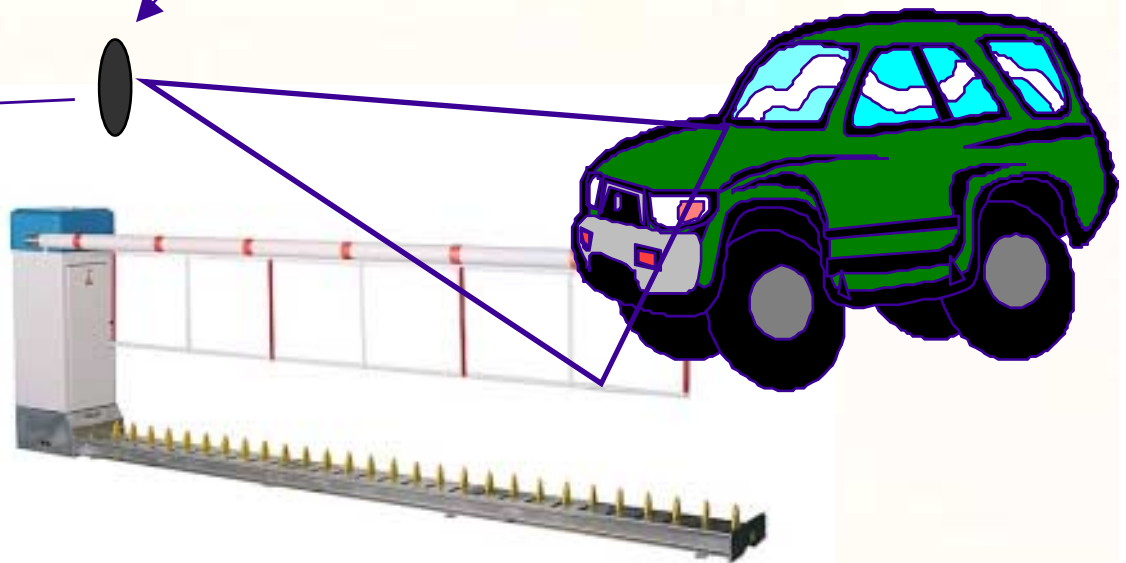
March 2008	
28	29
2	3
9	10
16	17
23	24
30	31
Today: 19/03/2008	
Time Start: 00:00	Time End: 00:00

Confidence: 100%
Date: 17/03/2008
Time: 07:49
Characters: 7
Scanned: 1 of 0
New: 0
Updated: 0
Fail: 0
Confidence:
100% 1
90% - 99% 0
80% - 89% 0
<79% 0
Average: 100.00%

NU18637

16	17	18	19	20	21	22
23	24	25	26	27	28	29

New: 0
Updated: 0



Pricing

- 15% discount for SAPS and any crime fighting solution which can be quoted as a reference site
- Prices: 3 options:
 - Cost per transaction (no plate recognised, no payment)
 - Fixed monthly cost (same price regardless of no. of transactions)
 - Capital amount (no further costs)
 - Cost per transaction from **12c per plate** (including camera, install, web reports, alarm via E-Mail / SMS, etc).
 - Fixed monthly cost from **R850.00 per month** with no long term contracts
 - Capital amount from R 9 750.00

Thanks & Questions

Technical QUESTIONS:

Barry T. DUDLEY

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

I-Cube

www.i-cube.co.za

MADADENI

82 Kloof Falls Rd

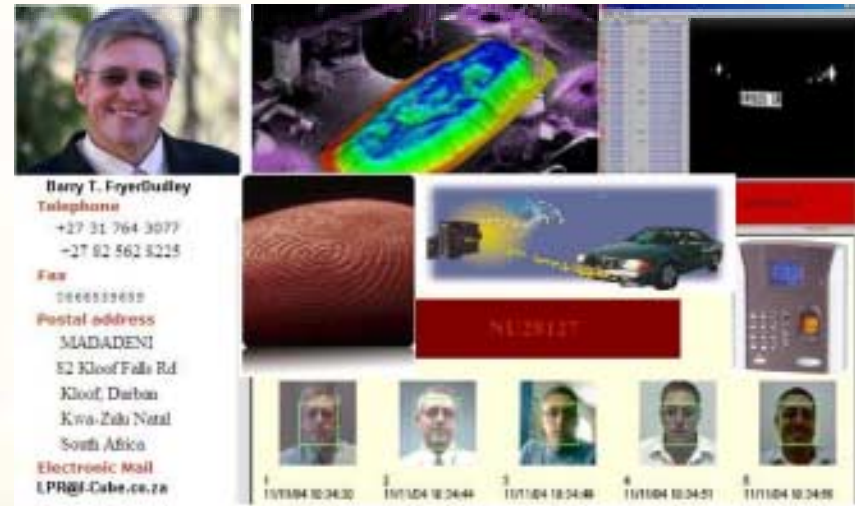
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Cell: +27 (0) 82 562 8225

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