

# TAXI FOLLOWING DISTANCE



Presented by  
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Mutual+ Federal Regional Office,  
18 The Boulevard,  
Westway Office Park,  
Westville.

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

*May 2007*



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# Product Review

TAXI FOLLOWING DISTANCE SOLUTION propose the use of a CAMERA, mobile PC and a GPS linked to LPR SOFTWARE.

Camera image sent to PC, STORED or TRANSMITTED (if communication link is up). LPR SERVER receives the image and the vehicle SPEED (from GPS). If a plate was found in the image, the size would be calculated and a distance calculated from the camera (TAXI).

A report would be generated showing SPEED VS Following distance.

# Objectives

To ENGINEER a real time TAXI FOLLOWING solution

To EDUCATE TAXI Drivers on the correct following distance

To ENFORCE (ALARM) when TAXI FOLLOWING DISTANCE at specific speed is too close.

To REWARD drivers who maintain a suitable following distance



# Key benefits

Utilise existing technology for a low cost, simple solution

Real time information can save lives

Generate data which can lead to further studies, such as lane discipline, yellow line driving



# 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)



MERCERIWP

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Integrated, Intelligent Imaging

17681	ex 1.2351195468_1.jpg	411
17682	ex 1.2351221190_1.jpg	250
17683	ex 1.2351317671_1.jpg	531
17684	ex 1.2351466156_1.jpg	564
17685	ex 1.2351534289_1.jpg	454
17686	ex 1.2351536093_1.jpg	260
17687	ex 1.2351581734_1.jpg	360
17688	ex 1.2351649718_1.jpg	451
17689	ex 1.2351699109_1.jpg	390
17690	ex 1.2351750687_1.jpg	521
17691	ex 1.2351807406_1.jpg	200
17692	ex 1.2351844687_1.jpg	291
17693	ex 1.2351924701_1.jpg	260
17694	ex 1.2351962375_1.jpg	471
17695	ex 1.2351962375_2.jpg	852
17696	ex 1.2351976093_1.jpg	221
17697	ex 1.2352003790_1.jpg	571
17698	ex 1.2352036628_1.jpg	110
17699	ex 1.2352125671_1.jpg	141
17700	ex 1.2352223265_1.jpg	251
17701	ex 1.2352125671_1.jpg	150
17702	ex 1.2352223265_1.jpg	250
17703	ex 1.2352244984_1.jpg	170
17704	ex 1.2352247562_1.jpg	190
17705	ex 1.2352365593_1.jpg	500
17706	ex 1.2352712703_1.jpg	601
17707	ex 1.2352365593_1.jpg	511

# License Plate Recognition

Wireless  
3G /  
iBurst

LPR Server

Camera/  
Illumination unit



Wireless  
3G /  
iBurst

Display message / Generate alarm

LPR

ND12930





247 LPR Client

Possibly on site,  
remote or mobile

# Pulsed Illumination for 24 HR operation



# Additional Recorded Information

<i>Criteria</i>	<i>Captured</i>	<i>Result</i>	<i>Result</i>
License Plate Recognition		F NP132785 R NP132785	<b>LOGGED</b>
Car Shape	BMW	Type	<b>LOGGED</b>
Distance to vehicle		Driver	<b>LOGGED</b>
Car Colour		White	<b>LOGGED</b>
Driver biometric data		Driver	<b>LOGGED</b>



# Pricing

- 3 options:
  - Cost per transaction (no image received, no payment)
  - Fixed monthly cost (same price regardless of no. of transactions)
  - Capital amount (no further costs)
- Cost per transaction from **12c per image** (including web reports, alarm via E-Mail / SMS, etc).
- Fixed monthly cost from **R850.00 per month** with no long term contracts
- Capital amount for EQUIPMENT from R 9 750.00



**Thanks & Questions**

# NEXT STEP: Seeing Is Believing



ND96229

# Technical QUESTIONS:

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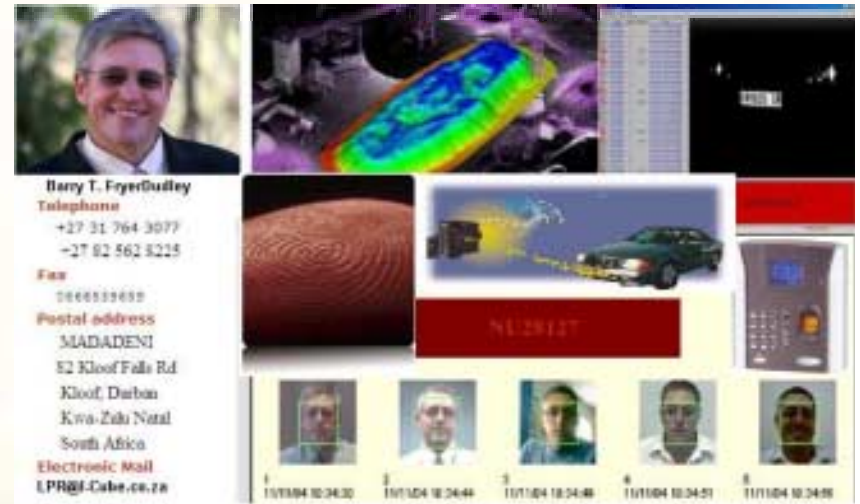
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