

mICA SOLUTION – PRODUCT STATEMENT

MARDERC **mICA**

Automatic Number Plate Recognition has a wide range of applications since the license number is the primary, most widely accepted, human readable, mandatory identifier of motor vehicles.

Marderc's In Car Automatic Number Plate Recognition (mICA) mobile solution provides operators with a means to perform number plate checks against a vehicle of interest database and providing the operator with an alert when a vehicle has been identified.

- Under proper conditions delivers 95-100% accuracy
- Is a mobile in car ANPR solution
- Is fast
- Will operate with a range of cameras



mICA SOLUTION – PRODUCT STATEMENT

PURPOSE

- An in-car mobile Automatic recognition of vehicle number plates – to identify vehicles of interest.
- Supported operating systems Windows (32/64 bit)
- Supported Platforms x86_32 | x86_64
- Minimum System requirements 1GHz CPU | 5122 MB RAM | 1GB
- Licensing One licence per application thread per vehicle installation
- Suitable for use by:
 - street parking inspection (time limits, non-resident),
 - repossession companies,
 - insurance companies,
 - policing

The Number Plate Recognition Engine we use, possesses all the features a high-quality license plate recognition system may require. It is highly accurate, fail safe and stable, fast and intelligent.

KEY FEATURES

- Automatic recognition of number plates from vehicles in view of the camera(s)
- Straightforward, fast, easy to use and simple to implement
- Plate recognition for all states and countries
- Alerts provided for matching plate data (e.g. from vehicle of interest database)

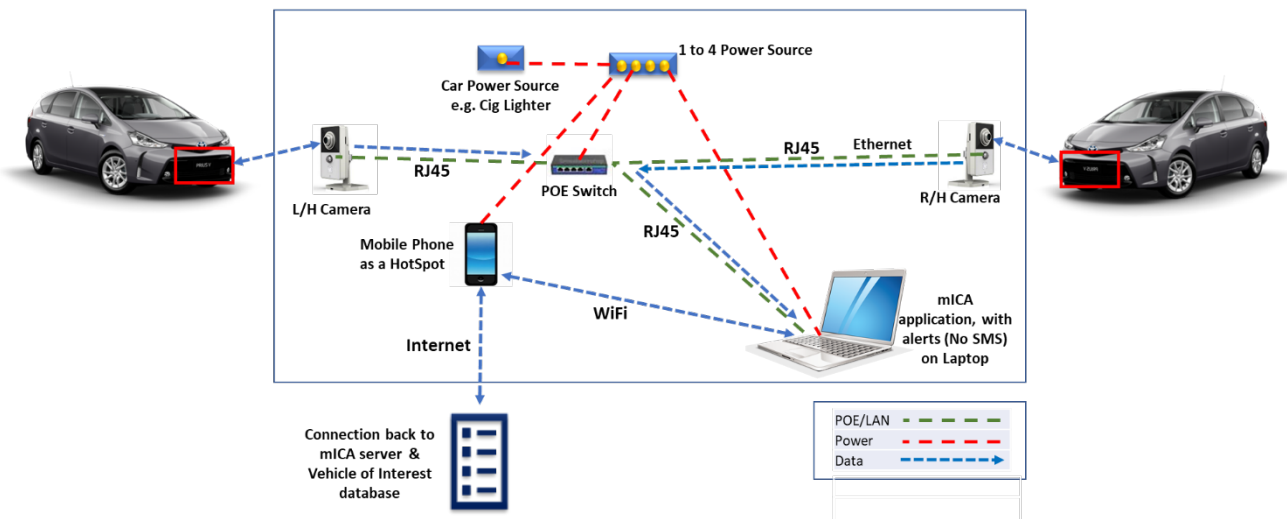
MAIN BENEFITS

- Saving time - automated number plate reading
- High accuracy and recognition rates (95-100% under normal circumstances)
- Increased speed of identification of vehicles of interest
- Ability to read varying plate sizes, syntaxes and distorted plate images
- Smooth and problem-free operation

mICA INTEGRATION AND PROCESS FLOW

Output from mICA is integrated with the mICA server and database.

Marderc In Car ANPR overview (mICA) – Phase 1



*Diagram is showing PoE powered camera solution

mICA Animation: <https://youtu.be/nf5aJDIXDSg>

In Vehicle Process	
1	With mICA solution up and online, which is running on the in-vehicle laptop
2	Operator cruises car parks, streets, events
3	Camera(s) take images of parked vehicles and sends, via WiFi or LAN, these images to the mICA solution for processing,
4.1	mICA application processes images identifying number plates
4.2	mICA using the mobile phone as an Internet hotspot, connects to the mICA server and checks the plate details against the mICA vehicle of interest database records
5	Where mICA finds a "vehicle of interest" number on the database it will send an Alert with vehicle details back to the Laptop, this is both a visual and audible Alert
6	The operator then performs required actions relating to the identified vehicle

In Office Process / database updates	
1	Running mICA on the Laptop
2	Operator can enter new vehicles of interest into mICA database
3	Operator can update vehicles of interest data into mICA database (e.g. remove from list, vehicle found, etc)
4	Operator able to produce reports for activity

INTERFACE

Input

- Still image from file or memory in any image format (BMP | PNG | JPEG | JPEG2K | RAW)
- Live analogue video input (PAL or NTSC)
- Live digital camera input

Output

- OCR data Number plate number in ASCII/UNICODE text Position of the plate Confidence level in percentage Confidence level for each character List of further suggestions for each character Individual result for each plate on an image Colour of plate (optional) Country ID (optional) Location of each plate on one image

OPTIONAL ADD-ON MODULES

Modules that can be purchased separately to mICA:

- mSMS; provides nominated mobiles with SMS alerts for found vehicles of interest, as configured within mICA



ABOUT MARDERC

WHO IS MARDERC?

Marderc provides several technology solutions for a variety of industries and clients. Our key product suite centres on Automated Number Plate Recognition (ANPR) solutions.

Offering technology solutions are provided for businesses within:

- retail
- services
- security
- government
- policing and
- trades

Marderc produces multiple technology with an expanding product range.

- DriveOffSentinel for the retail fuel industry, used to combat fuel Drive Offs
- mICA, Marderc's in-car ANPR solution. mICA is used for mobile number plate recognition requirements
- mANPR is used for on-site number plate recognition requirements
- mVEM: Vehicle Entry Monitor, to monitor entry and exit of vehicles, using mANPR
 - mSMS; provides nominated mobiles with SMS alerts as configured within mVEM or mICA
 - mAlerts; provides users with on-screen alerts as configured within mVEM (this is fully incorporated within mICA)
- IP Cameras (for ANPR solutions), a variety of camera solutions available

We are continually improving existing and developing new technology solutions.

OUR OBJECTIVE IS TO:

To support businesses in minimising operational costs using technology based solutions.

WHY MARDERC?

We offer a high-quality competency-based service. With practical "hands on" experience in both technology and the client industries we provide services for. Backed by 80 years of technology experience.

For further information about Marderc's Automatic Number Plate Recognition solution - mICA.

Go to: <http://marderc.com/mICA.html>

Or contact us directly on (+61) (0)429 445 561 or info@marderc.com