

# CARMEN<sup>®</sup> DOT Software

USDOT (DOT) NUMBER RECOGNITION SOFTWARE LIBRARY & SDK

US DOT 1045759

OCR RESULT:  
1045759



## RECOGNITION ENGINE FOR ROAD SAFETY AND COMPLIANCE APPLICATIONS

**CARMEN<sup>®</sup>**

The Carmen<sup>®</sup> DOT software is a specialized version of the Carmen<sup>®</sup> Recognition Software family. Carmen<sup>®</sup> DOT is engineered to extract and read the USDOT number of a CMV (Commercial Motor Vehicle) from captured images. All commercial vehicles in the USA must bear a unique identification number obtained from the Department of Transportation. This number is the USDOT (or DOT) number. Carmen<sup>®</sup> DOT allows U.S. trucking and traffic systems automatic identification, tracking, and abilities to build complex databases and control inventory systems with high accuracy, speed and agility. Carmen<sup>®</sup> DOT enables traffic and security systems to automatically identify and verify commercial vehicles from a variety of image sources. Capable of collecting audit, inspection and compliance information, the software provides the DOT number, date, time and location of commercial motor vehicles to check against key information in state and federal databases in real time with the most accurate recognition rates available in today's market.



AUTOMATED  
TUNNEL  
SECURITY  
SYSTEMS



AIRPORT  
AND  
HARBOR  
LOGISTICS



HIGHWAY  
OR CITY  
ITS SYSTEMS



BORDER  
CONTROL  
CUSTOMS



TRAFFIC  
SECURITY  
MONITORING

### MAIN BENEFITS

- Automated USDOT number reading saves time and resources
- Fast emergency response, audits and compliance reviews
- Increasing road safety by providing real-time data
- High accuracy and recognition rates
- Smooth and maintenance-free 24/7 operation

TOWARD THE FUTURE IN SAFETY – SINCE 1991

## SPECIFICATIONS

## CARMEN® DOT Software

- straightforward use • hardware independent • multi format image input • motion detection • scalable • high accuracy

Special ACCR cameras are available for higher quality images and recognitions rates.

### GENERAL INFORMATION

Purpose	Automatic recognition of US DOT codes of commercial motor vehicles - a USDOT number recognition software for various traffic and security systems to automatically identify and verify commercial vehicles
Supported Operating Systems	Windows (32/64 bit) Linux (32/64 bit)
Supported Platforms	x86_32   x86_64   ARMv7   Cortex A8 and above   PPC
Minimum System Requirements	1 GHz CPU   512 MB RAM   1 GB HDD   free port/slot for NNC
Licensing	One license per application thread, multiple license/controller is available One year from purchase included, optional subscription available on yearly basis
Available Neural Controllers	USB 2.0 dongle - type A USB internal 4-pin PCIe card (X1) Mini-PCIe card

### INTERFACE

Input	Still image from file or memory in various image formats (BMP   PNG   JPEG   JPEG2K   RAW) Live analog video input (PAL or NTSC) Live digital camera input
Output	OCR data USDOT number in ASCII text Position of the USDOT number Confidence level in percentage Confidence level for each character List of further suggestions for each character Individual result for each image
Trigger	Can be integrated with any trigger device (recommended when recognizing from live video stream) Software motion detection module is included

### DEVELOPMENT TOOLS FOR EASY INTEGRATION

Supported programming languages under Windows	C/C++, C# Visual Basic .NET Java
Supported programming languages under Linux	C/C++, Java
In The Box	Development libraries: .dll, .so files Demo application, sample codes for each programming language Neural network controller Comprehensive digital documentation



..... Technical specifications are subject to change without prior notice. This document does not constitute an offer.



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