

CARMEN® DOT Software

USDOT (DOT) NUMBER RECOGNITION SOFTWARE LIBRARY & SDK

US DOT 1045759

OCR RESULT:
1045759



THE ULTIMATE RECOGNITION ENGINE FOR INTELLIGENT TRAFFIC APPLICATIONS

The CARMEN® DOT software is a specialized version of the CARMEN® Recognition Software family. CARMEN® 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® 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® 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 gives the DOT number, date, time and location for CMV systems to check against key information in state and federal databases in real time with the most accurate recognition rates available in today's market.

KEY FEATURES

- Automatic reading of USDOT numbers from CMVs
- Fast, easy and straightforward use
- Hardware independence: compatible with any image source (analog / digital / still images / MJPEG video streams)

MAIN BENEFITS

- Saving time and energy in data entry, automating USDOT number code reading
- Decreasing data entry errors with high accuracy and recognition rates
- Increasing security and safety of transport units

Special USDOT cameras are available for higher quality images and recognition rates.

CARMEN®



AUTOMATED
TUNNEL
SECURITY
SYSTEMS



AIRPORT
AND
HARBOR
LOGISTICS



HIGHWAY
OR CITY
ITS SYSTEMS



BORDER
CONTROL
CUSTOMS



TRAFFIC
SECURITY
MONITORING

SPECIFICATIONS

CARMEN® DOT Software

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
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
Available Neural Controllers	PCIe card (x1) USB 2.0 Internal USB 2.0 PCI 2.1 video capture card (FXVD4) (EOL*) PCI 2.1 card (FXMC) (EOL*) Express card 34 (54 compatible) (EOL*) PC 104+ card (EOL*)

*end of life

INTERFACE

Input	Still image from file or memory in any image format (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 image 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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