

CARMEN® ACCR

Automatic container code recognition
powered by the world leader OCR algorithm



CARMEN®
OCR ENGINE RESULT:
PSSU2109481



Fast, accurate and cost-effective solution for Automatic Container Code Recognition

Security and screening of container transportation has become more and more important in our globalized world. Growing need is seen for Automatic Container Code Recognition technology as a part of intelligent control systems.

Applied recognition technology needs to be fast and accurate. This reliability is guaranteed by more than a decade of development investment into the world leader CARMEN® OCR technology.

Special container camera system is available to produce optimal images for high reading accuracy.

CARMEN® system integrator partners are constructing outstanding innovative systems for their clients by incorporating our state-of-the-art CARMEN® ACCR software.

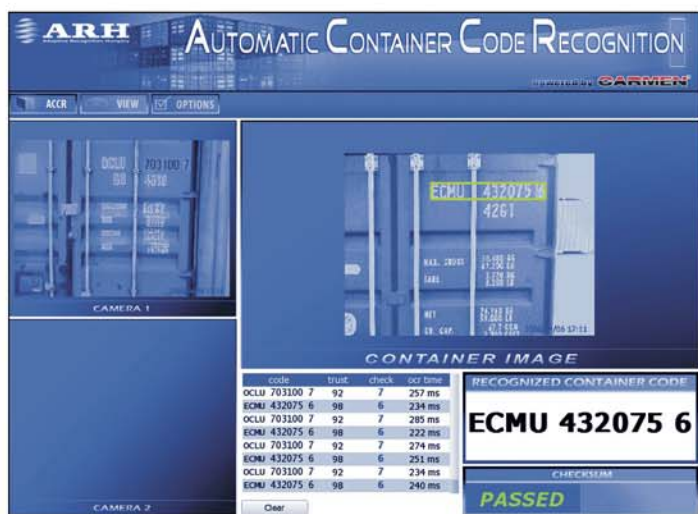
These technology experts understand the specific needs of their customer and they build complete systems exactly according to the expectations.

Key features

- ✓ High recognition rate
- ✓ Easy and fast integration (SDK)
- ✓ Fast recognition
- ✓ Recognition from several images of the same container
- ✓ Recognize horizontal and vertical text, two or three row codes

Typical application environments

- ✓ Automation of airport and harbor logistics
- ✓ Border control management
- ✓ Container surveillance systems
- ✓ Inventory management



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Technical specifications of CARMEN[®] ACCR Software

Supported operating systems

Windows[®] (32/64bit), Linux (32/64bit)

Programming languages (under Windows)

C, C++, VB.NET, C#, Java

Programming languages (under Linux)

C++

Additional tools

SDK for easy integration
DLLs and ActiveX components

Type of container codes

ISO 6346 (=BIC code)
UIC code
MOCO code

Image input

Still image from memory, file or live video input

Video input

Analog (PAL or NTSC)
Digital camera

File types

BMP, JPEG, JPEG2000

Image formats

Grayscale, RGB16, RGB24, RGB32, YUV

Trigger

Trigger is not needed but recommended when
recognizing from live video

Processing time dependences

Image size, complexity, noise level etc.
Processing power (CPU speed)
Parameter settings
Number of images of the same container

Output

Container code in ASCII
Best image (on which the reading is the most reliable)
Code position
Confidence level
Checksum

Documentation

Reference manual in electronic format

System requirements

Intel, 2GHz or higher Intel CPU 512 MB RAM
Free PCIe / PCI (2.1) slot or USB 2.0 port

Technical specifications are subject to change without prior notice

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