PRODUCT DESCRIPTION

The VEZHA® UIC & Container analytics are utilized for the detection and recognition of wagon and container numbers. This technology provides continuous 24/7 recognition of numbers on various types of trains, including locomotives, passenger wagons, freight wagons, platforms, and tank cars, in any environmental conditions. It enables the automation of cargo accounting, facilitates the search for wagons and containers by their numbers, and offers notifications for recognized numbers, which can be stored in a database or seamlessly integrated into any IT system for further processing.

VEZHA UIC & CONTAINER

UIC FEATURES:

- Probability of recognition when reading from both sides in the video stream up to 97%.
- Identification and recognition at speeds of up to 70 km/h.
- Support for all types of freight, passenger cars, and locomotives with UIC numbers.
- Possible reading locations: side number, chassis number.
- Supported number types: single-line, two-line, three-line.
- Number of control cameras 1 — 4, recommended 2 or more, with 4 platforms available.
- Syntax check and checksum verification of the wagon number using the algorithm (CRC).

CONTAINER FEATURES:

- Probability of recognition when reading from both sides in the video stream up to 97%.
- Supported character size from 10 pixels, recommended >= 16 pixels.
- Identification and recognition at speeds of up to 70 km/h.
- Supported types of numbers: vertical; horizontal: single-line, double-line, triple-line.
- Syntax check and checksum verification of the wagon number using the algorithm (CRC).

GENERAL INFORMATION

SUPPORTED OPERATING SYSTEMS	LINUX UBUNTU 20.04 / FROM WINDOWS 10 / FROM WINDOWS SERVER 2019
SUPPORTED PLATFORM	X64
SUPPORTED HARDWARE ACCELERATION	INTEL OPENVINO / NVIDIA TENSORRT
SUPPORTED DATABASE	MYSQL / POSTGRESQL / MS SQL / ORACLE
INTERNATIONAL STANDARD	CONTEINERS: ISO 6346 (BIC)/ UIC: EUROPEAN, CIS COUNTRIES

INTERFACE

MAXIMUM NUMBER OF CAMERAS	UNLIMITED, DEPENDING ON THE COMPUTER OR SERVER
CAMERA STREAM PROTOCOL	RTSP / HTTP / HTTPS / ONVIF
RECORDED VIDEO FORMATS	MKV; MP4; ASF; AVI; MJPEG
SUPPORTED CODECS	MPEG-4; MJPEG; H.264; H.265
OUTPUT FORMATS	JSON / XML / CSV / PDF

MAIN FUNCTIONALITY

CENTRALIZED MANAGEMENT	✓
REAL-TIME ALARMS	✓
INTEGRATION WITH MICROSOFT POWER BI, GOOGLE DATA STUDIO, AND OTHERS	✓
NOTIFICATION SETTINGS: INTERNAL ALARM, BY TELEGRAM OR OTHER EXTERNAL SYSTEMS	✓
REST API	✓
INTEGRATED BUSINESS LOGIC BUILDER	✓
SUPPORT FOR VARIOUS INTERFACE LANGUAGES	✓

VMS INTEGRATION

EVENT BASED INTEGRATION	LUXRIOT EVO, MILESTONE XPROTECT, NX META, AND OTHER
PLUGINS INTEGRATION	LUXRIOT EVO, MILESTONE XPROTECT, NX META

SECURITY FEATURES

ACTIVE DIRECTORY / LDAP	✓
GROUPS AND ROLES SUPPORT	✓
ENCRYPTION OF ALL PACKAGES	✓