

VISY



VISY CRANE OCR

Automatic recognition of container IDs and markings



EVOLVING AUTOMATION ECOSYSTEMS

Expand | your vision



Visy SideView recognizes
every container regardless of
flying path or lifting location.



Crane OCR - Automatic container ID and marking recognition

Visy Crane OCR automatically detects, images, and recognizes container IDs, IMO and ADR labels, door direction, seal presence, and other properties while containers are being lifted by cranes. Visy Crane OCR contains multiple options for automating container recognition and handling processes, including SideView, TopView, LaneView, and TTVView solutions. Together with Visy IRIS OCR and AI recognition software, the solutions automatically feed container identification data to terminal operating systems (TOS).



Increases throughput capacity



Clears liabilities for damaged containers



Enhances accuracy and safety

Visy SideView

Visy SideView recognizes container markings and seal presence, and images all sides for damage inspection purposes while containers are lifted by STS cranes. Two HD-resolution OCR camera lifts with efficient illuminators are mounted on sea-side crane legs to recognize every container regardless of flying path or lifting location. The solution is integrated with PLC to trigger the recognition process precisely when the lifting occurs.



Desktop and web-based user applications for efficient management of cargo.

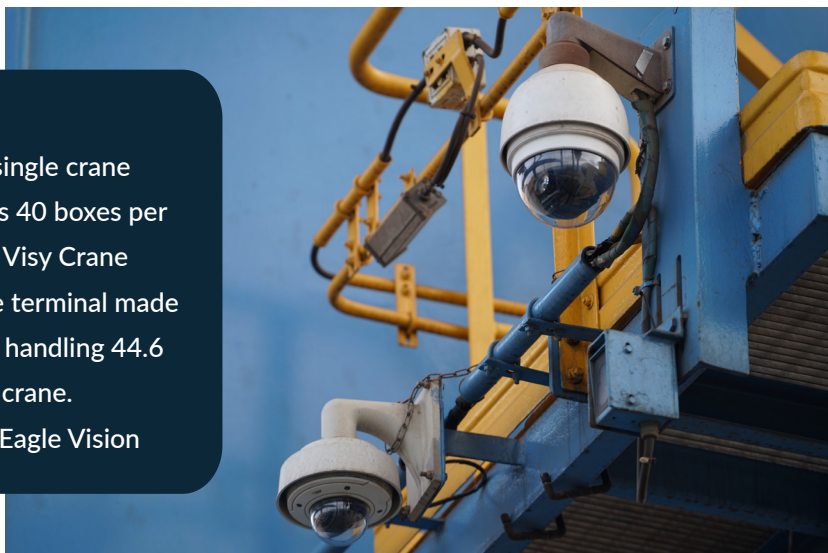
Visy LaneView

Visy LaneView images containers on lanes or platforms under STS cranes with high-resolution PTZ (pan-tilt-zoom) and fixed OCR cameras installed on the crane frame. The solution recognizes container markings and seal presence, and captures images for damage inspection purposes. The PTZ cameras are easily controlled to provide the best view for all lift cases, and Visy automation applications accurately calculate the container flight path to optimize the imaging moment.



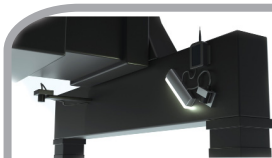
QQCTN's intentional single crane handling efficiency was 40 boxes per hour. With the help of Visy Crane OCR, in April 2020 the terminal made a new world record by handling 44.6 containers for a single crane.

Victor Zhang, Eagle Vision

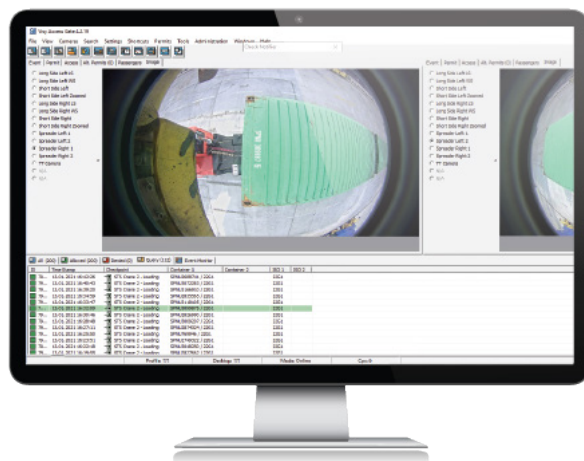


Visy TopView

Visy TopView identifies container IDs from the roofs of containers. The system consists of robust cameras installed in the middle and both ends of spreaders with efficient illuminators to recognize and capture high-quality images regardless of the time of day or environmental condition. Visy TopView supports operators' work orders by preventing time-consuming false moves and verifies that loading and unloading processes proceed exactly as planned.

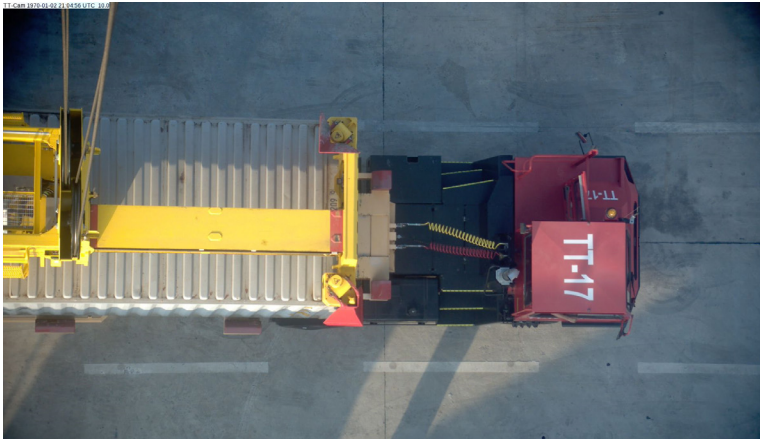


Installations to any type of crane equipment, including single, tandem, twin, and quad spreaders.



Visy TTVView

TTView recognizes ID numbers and other roof markings of terminal tractors to automatically link the container handling equipment to the lifting events and tasks. High-resolution cameras with strong infrared pulse are installed on the crane trolleys to capture images of the TT roofs. Matching the terminal tractors instantly with the on-going lifting tasks enables effortless tracking of cargo. In addition to OCR cameras, RFID (radio-frequency identification) devices can be combined to the TTVView solution.



Features

- Versatile implementation options for automatic container ID & marking recognition
- Automatic recognition of container IDs, ISO codes, IMO labels, door direction, seal presence, gross weight, number and position of containers in twin and tandem lifts, operation type (discharge/load)
- Terminal tractor identification features with both OCR and RFID
- Application for container code recognition from the roof of containers
- High-quality images from all sides
- Interfacing with PLC enables recognition and imaging regardless of lifting position or flying path
- Extensive data exchange and smooth interface with third-party systems (TOS, POS, ERP)
- Available for any crane type / CHE
- Customizable user applications



**Increase STS
Gross Moves per
Hour by up to
50%**



**Accuracy for
container handling**



**Turn data into
knowledge**



**Globally local
support**

We deliver versatile automation solutions to create comprehensive identification and access control ecosystems. Our product & solution selection for ports and terminals is wide to match the diversity of our customers' requirements and preferences, and to cover every part of the terminal where identification or tracking of containers, vehicles, and cargo is needed.

Automated access control and container identification in every turn ensures a smooth traffic flow and increases profits through enhanced operational efficiency. Our global high-quality partner network minimizes reaction time and our experience of three decades in the port and terminal industry guarantees top-class solutions and support worldwide.

Implementation & delivery of our solutions is reliable without exception. With our professional project management and skilled team, we deliver customized and demanding solutions designed to achieve the highest possible advantages of process automation.



About us

Visy is a pioneer in optical character recognition (OCR), applied AI, and deep learning for camera-based automation and access control solutions. Our expertise is based on over 25 years of experience in research and development of industry-leading technologies, and we have established a strong position as one of the top global vendors in gate automation and OCR solutions.

5 000 000+
RECOGNITION
EVENTS EACH DAY

500+ FACILITIES
AUTOMATED

25+ COUNTRIES

INNOVATING SINCE
1994

OVER 1,000,000,000
IDENTIFICATION
EVENTS

25 YEARS OF
DEVELOPING AI AND
OCR TECHNOLOGIES

Visy Oy
Hatanpään valtatie 34 D 3rd Floor
33100 Tampere, Finland
Tel. +358 3 211 0403
VAT ID: FI09739717

www.visy.fi
sales@visy.fi

