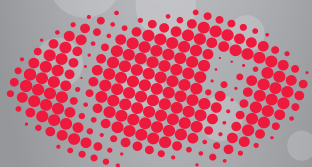


ENHANCING AND STREAMLINING
THE SAFE FLOW OF CARGO



VISY



OCR SYSTEMS FOR QUAY OPERATIONS

Expand | your vision

ENHANCE AND STREAMLINE CONTAINER HANDLING WITH TOP-CLASS OCR

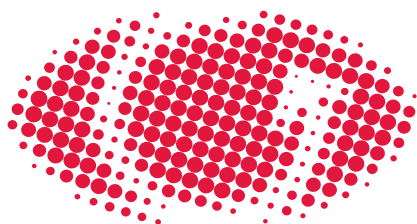
AI-based OCR solutions

The future-proof partner for all smart gate, access control, and terminal automation needs. With Visy systems, our customers identify and manage all traffic of cargo, vehicles, and people in demanding environments of container terminals all over the world.

We are dedicated to build ever better, more efficient, and easier-to-integrate system solutions with our world-leading AI-based OCR technologies.

Reliable and enduring performance OCR
leads you to new heights in productivity.

Expand | your
vision



VISY

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One platform
for all terminal
automation



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Efficiency and Precision of OCR Technology Deployed in Container Handling

Utilizing Optical Character Recognition (OCR) technology in container handling offers significant benefits: enhancing efficiency, accuracy, and operational safety. By automatically recognizing and digitizing the characters on container labels, OCR eliminates the need for manual data entry, reducing human errors and speeding up processing times. This automation enables real-time tracking and inventory management, allowing more precise control over container movements.

OCR not only streamlines operations but also supports better logistical planning and cost management, allowing companies to meet the growing demands of global trade more effectively.



Record every
container handling
event with the
Visy Crane OCR
system

Benefits of OCR Technology in Container Handling

Increased Efficiency

- ✓ Rapidly reads container codes, reducing processing times
- ✓ Automates data collection, minimizing manual input

Enhanced Accuracy

- ✓ Eliminates human errors in data entry
- ✓ Provides reliable and consistent inventory records

Real-Time Tracking

- ✓ Offers instant updates on container locations and statuses
- ✓ Improves logistical planning and coordination with port authorities

Improved Safety

- ✓ Reduces the need for manual handling in hazardous areas

Cost Savings

- ✓ Lowers labor costs by automating data management
- ✓ Enhances turnaround times, increasing operational profitability

APL



APZU

463774 2

42G1

MAX. GROSS

32.500 KGS

71.650 LBS

TARE

3.700 KGS

8.160 LBS

NET

28.800 KGS

63.490 LBS

CUB. CAP.

67.7 CU.M.

2.390 CU.FT.

Visy Crane OCR camera system
records every container handling
event and extracts identification data
from the captured images.

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VISY CRANE OCR

OCR camera system for crane operations

Visy Crane OCR for ship-to-shore (STS) cranes automatically images all container sides and recognizes container IDs, ISO codes, dangerous goods labels (IMDG, ADR), and other targets of interest such as seal presence and door direction, while containers are being handled by cranes.

Robust system environment with exceptional performance

Due to the harsh operating environment and multiple parallel functions, the Visy Crane OCR system setup utilizes PTZ (pan-tilt-zoom) cameras mounted on the crane structure without moving parts to enhance system reliability and durability. The PTZ cameras are easily controlled to provide an optimal view for all lifting cases and an interface with PLC accurately calculates flight paths to optimize the imaging moment.

Recognition features

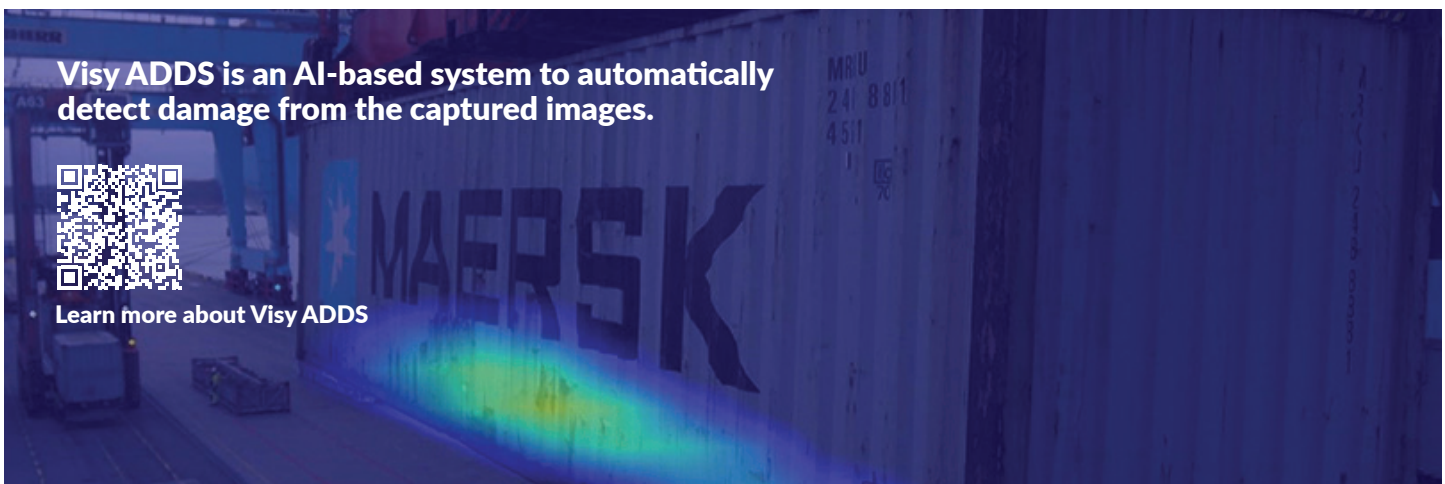
- ✓ Container IDs
- ✓ ISO codes
- ✓ ADR/IMO labels
- ✓ Weight / Tare / Payload
- ✓ Door direction
- ✓ Seal presence
- ✓ Door handle
- ✓ Damage
- ✓ Terminal tractors



All Visy Crane OCR applications are designed according to the operational needs of each customer. The system setup and OCR features are chosen case by case to support overall operations and different container handling cases, lifting types (twin, single, tandem, quad, tank), and spreader flying paths, as well as backreach and platform operations.

Lift type classification

- ✓ Single/Twin lift
- ✓ Container
- ✓ Tank
- ✓ Reefer container
- ✓ Others: Gearbox, cage, hatch cover
- ✓ Overheight frame



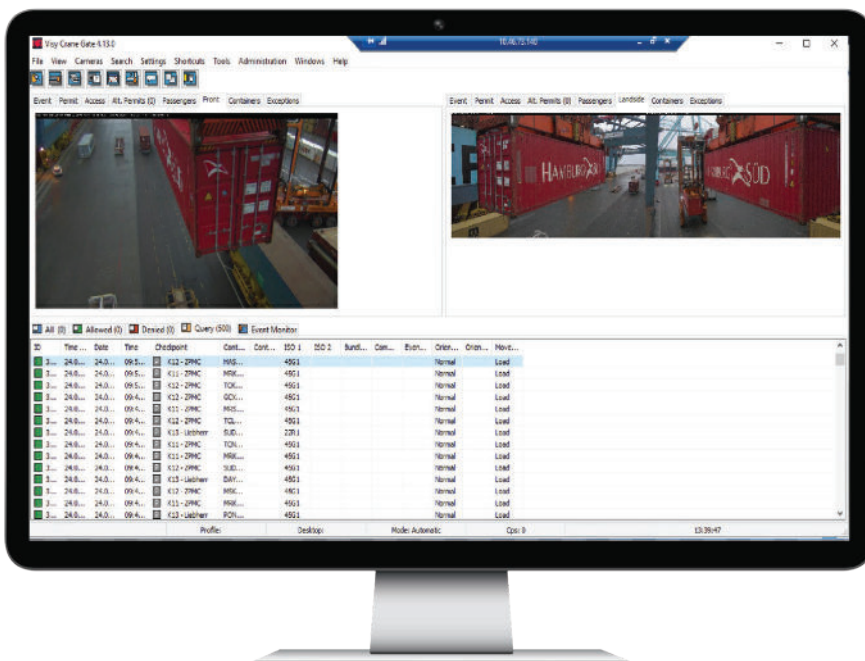
Visy ADDS is an AI-based system to automatically detect damage from the captured images.



Learn more about Visy ADDS



Visy utilizes durable PTZ cameras which are configured to cover multiple imaging areas. This ensures comprehensive support for all lifting cases and operation types.



Captured images are processed by the Visy OCR engine, which extracts the desired identification data. The images and event data are saved to the Visy database and they can be viewed and downloaded in the Visy Crane Gate user application that allows exception handling and report generation.

Read APMT Gothenburg case study at visy.fi





**Unlock the value of knowing exactly
what you're moving at every moment,
in all areas.**

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VISY TOPVIEW – SPREADER OCR

Enhance visibility in container handling

Visy TopView transforms any spreader into a smart device. The compact camera system automatically identifies container IDs from the roofs of containers and is compatible with any CHE type and brand. Equipment is installed on the spreaders, including cameras, illuminators, cabling, and device cabinets. The recognition PC is located inside the crane's E-house.

TopView accelerates container handling processes, records every container move and prevents time-consuming false lifts, which instantly help to increase a crane's operating capacity.

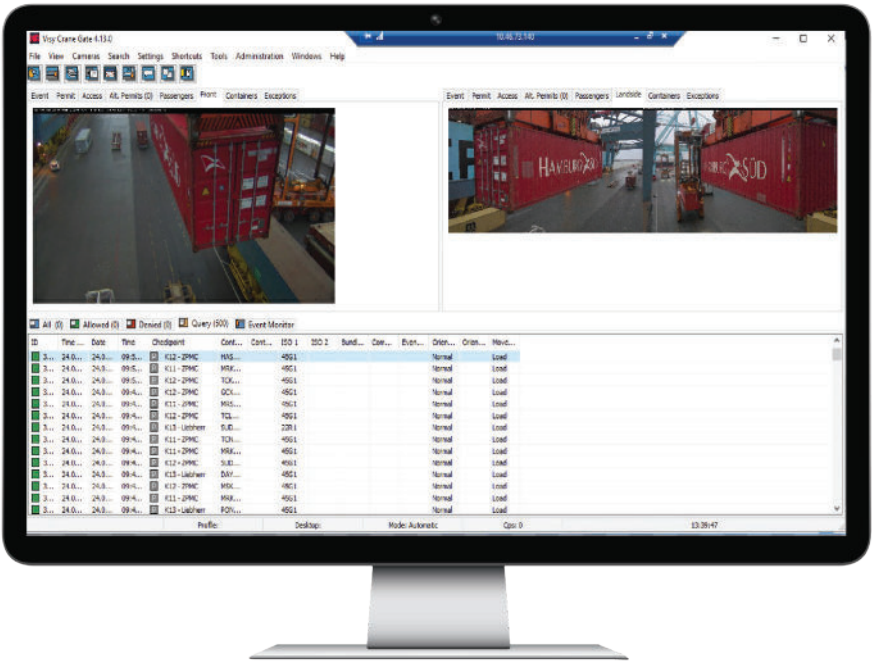
TopView on STS spreaders

- ✓ Automatically save and record every container handling event with container ID and top images
- ✓ Visy's in-house recognition software with high accuracy rate
- ✓ Smooth data exchange with TOS
- ✓ Robust system designed for harsh operating environments



Visy TopView equipment and cameras have been carefully selected and developed to achieve high performance in a demanding environment.





Captured images and event data can be viewed and downloaded in the Visy Crane Gate user application.



Professional services complement
the solution offering with proactive care
and continuous improvement.

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vision

Services

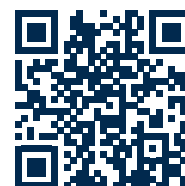
PROFESSIONAL SERVICES

Visy's global high-quality partner network minimizes response times and our experienced project management team ensures top-class solutions, delivery, and support worldwide.

- ✓ Project management
- ✓ Software customization
- ✓ Simulations
- ✓ Integrations
- ✓ Consulting

OPERATING WITH VISY

Visy's customers are united by their drive toward continuous development of operations and their desire to gain the benefits of advanced pioneering technologies.



GLOBALLY LOCAL



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

www.visy.fi
sales@visy.fi





VISY



www.visy.fi
sales@visy.fi