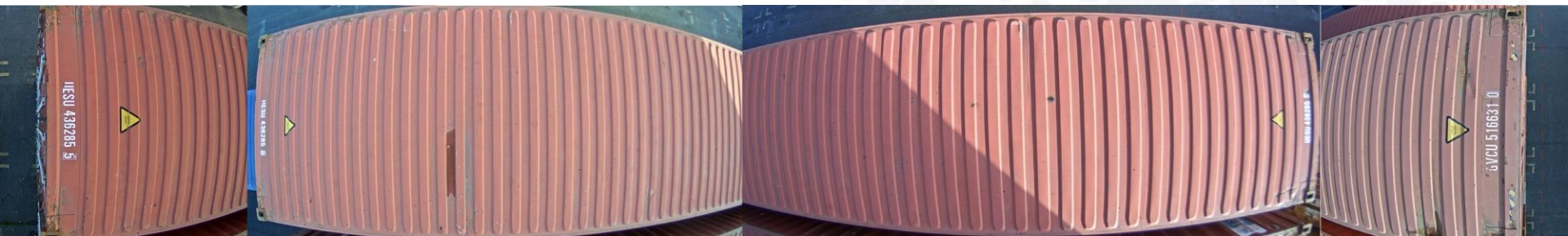




Expand | your vision



Visy TopView Spreader OCR

**Port & Terminal Technology Conference
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Private & Confidential

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VISY

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Agenda

- About Visy
- The case for TopView
- Applications & technology
- Video





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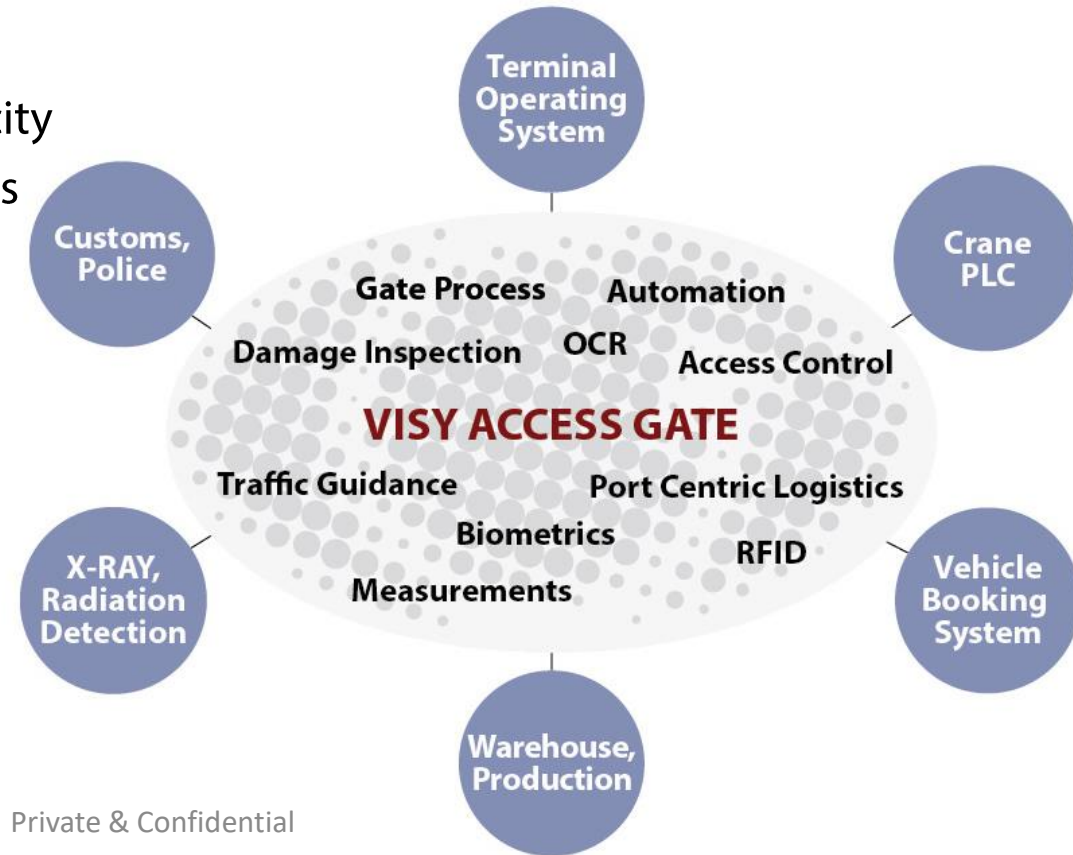
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About Visy

- Gate Operating System ("GOS")
- Access and area control
 - Increase throughput capacity
 - Reduce operating expenses
 - Optimize safety & security
- Gate, rail, quay and yard

→ **From OCR software
to terminal solutions**

→ **Design included**





Visy Access Gate at main gate area

Self service kiosks for
terminal customers

Visy Access Gate at
energy production
plant

Visy Train Gate with
OCR and damage
inspection

Terminal gate,
driver service kiosks

Crane OCR and damage
inspection imaging

RFID/Barcode/PIN
readers at interchange

Straddle Carrier OCR serving
yard management



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The Case for TopView

What do the majority of box
moves have in common?





The Case for TopView

What do the majority of box moves have in common?

They are moved by CHE with a
spreader!
This presents an opportunity...



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The Case for TopView

- TopView is a camera system for spreaders that automatically takes images and uses OCR
- Every spreader becomes an automatic data collection point: box ID and roof condition
- Every time a spreader touches a box, TopView automatically confirms the box ID and job...links data to CHE...reports back to TOS





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Benefits

- Automate heaps and those areas outside PDS zones
- Increases inventory accuracy and improves transaction accuracy
- Increases CHE and driver productivity
- Alerts for job/PDS errors
- Provides complete damage inspection imaging history
- Simple interfacing with TOS and 3rd party systems increases terminal automation
- Increases safety & security



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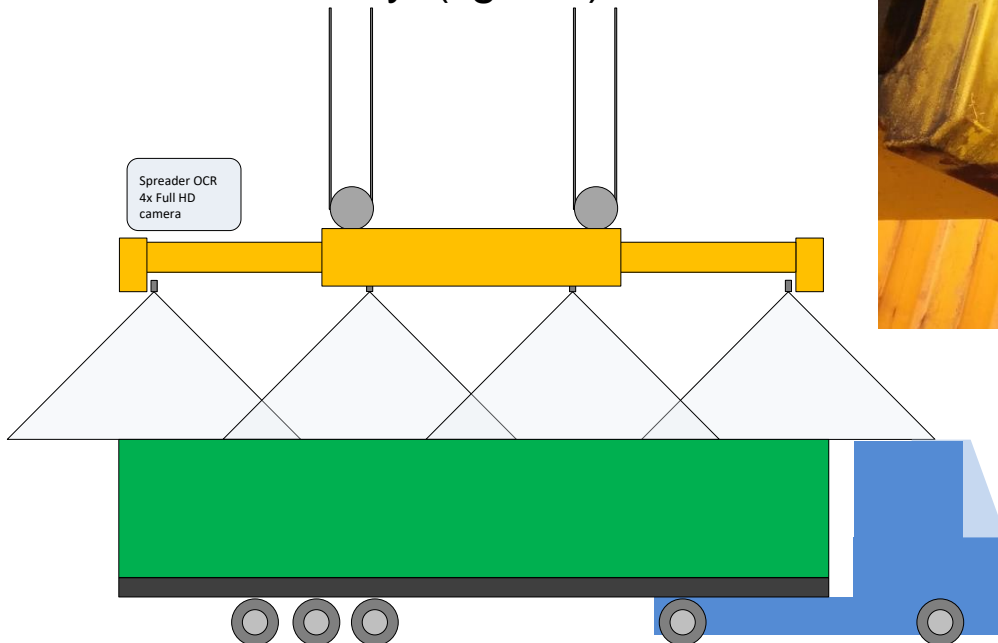


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Applications & Technology

- TopView cameras placed on spreader to capture images
- Device cabinet, PC, connectivity, (lights?)





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STS

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Wired or wireless connection from crane to harbour:

- Connects STS to terminal database
- Interaction with TOS
- Visy IRIS updates events to database

Rack PC in E-house:

- OCR recognition
- Connection to STS PLC
- Wired or wireless connection to camera main unit

TopView cameras:

- 2 – 4 x Full HD cameras
- Camera main unit with wired connection to cameras and recognition PC

- Loading and unloading operations
- Single, twin and tandem lifts

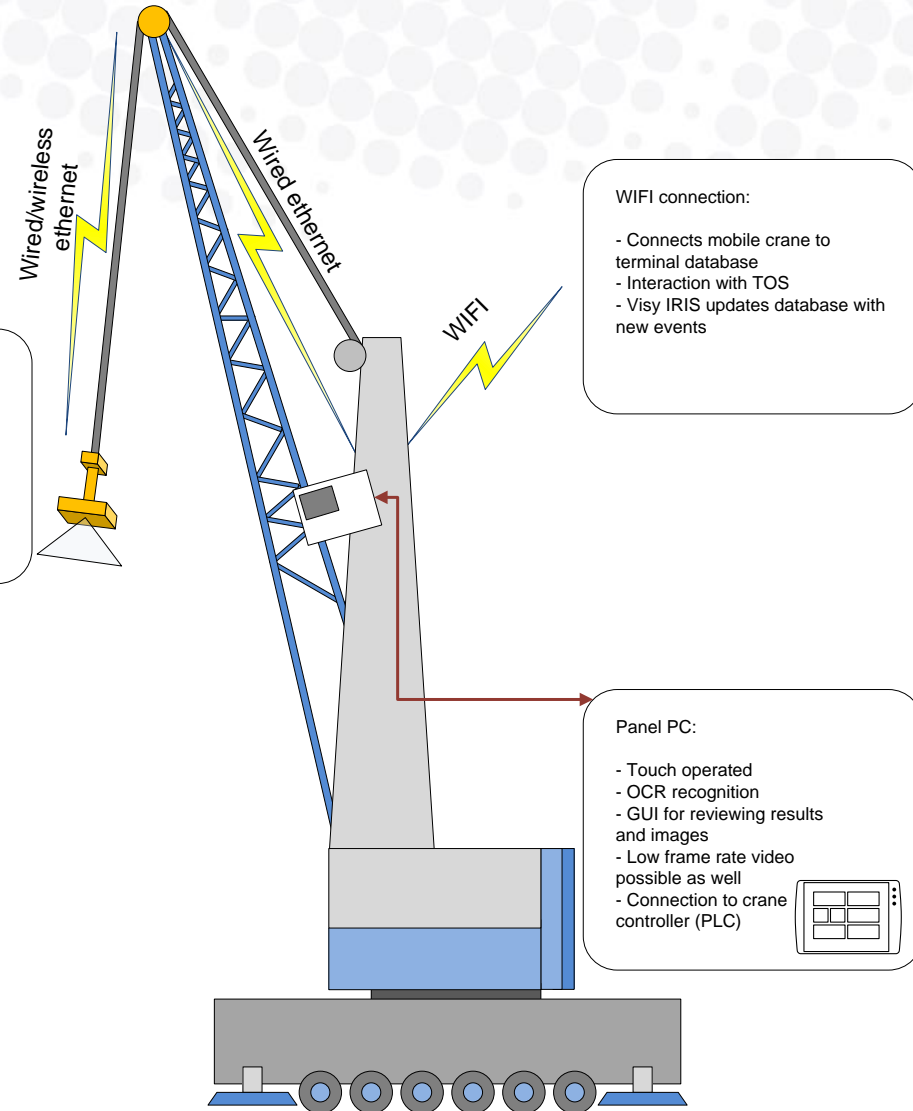


TopView OCR image on ship...

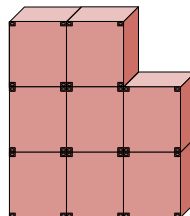


...TopView OCR image on ship

Mobile Harbor Crane



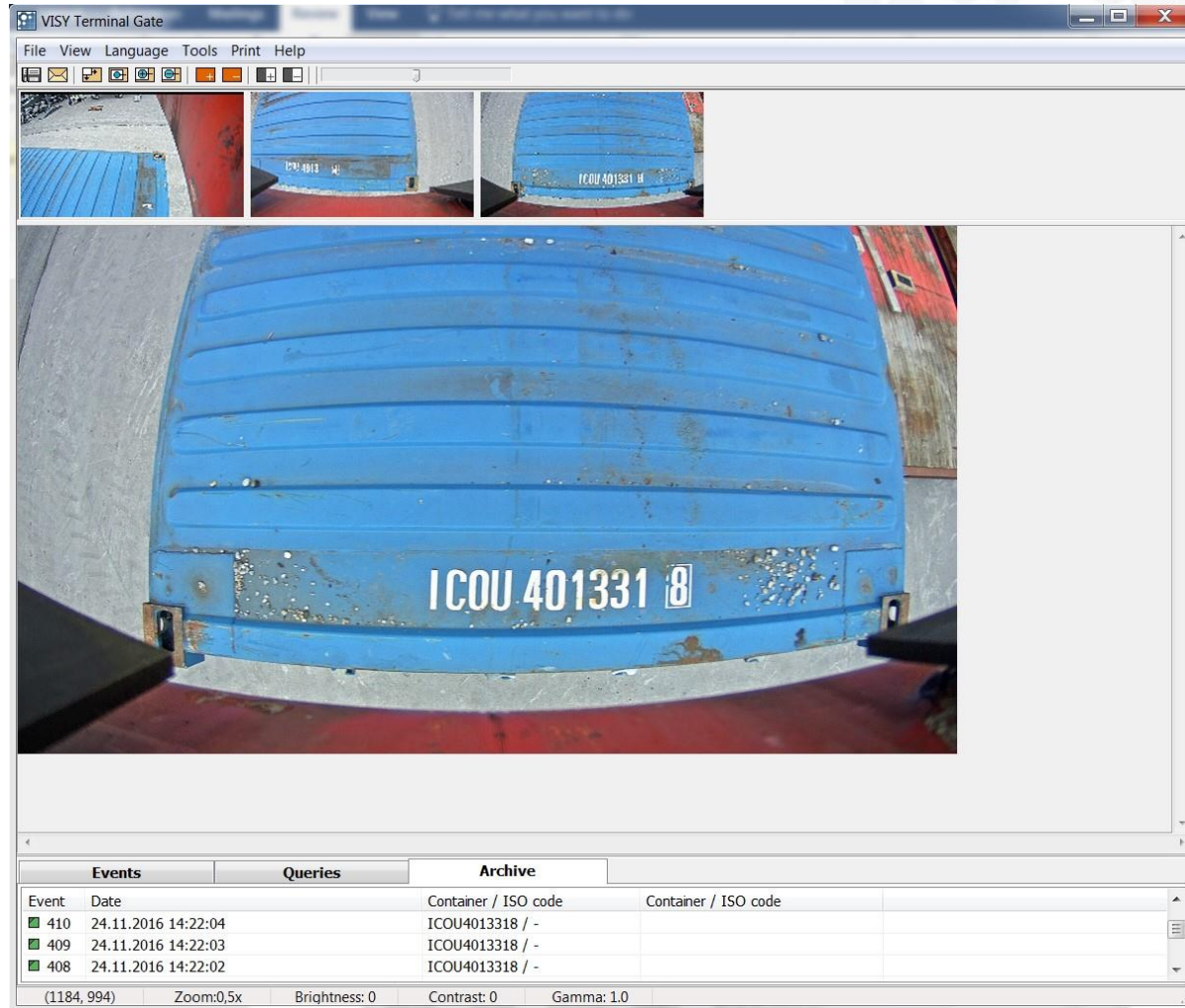
- TopView cameras placed on spreader
- Other cameras for support
- All MHC operations





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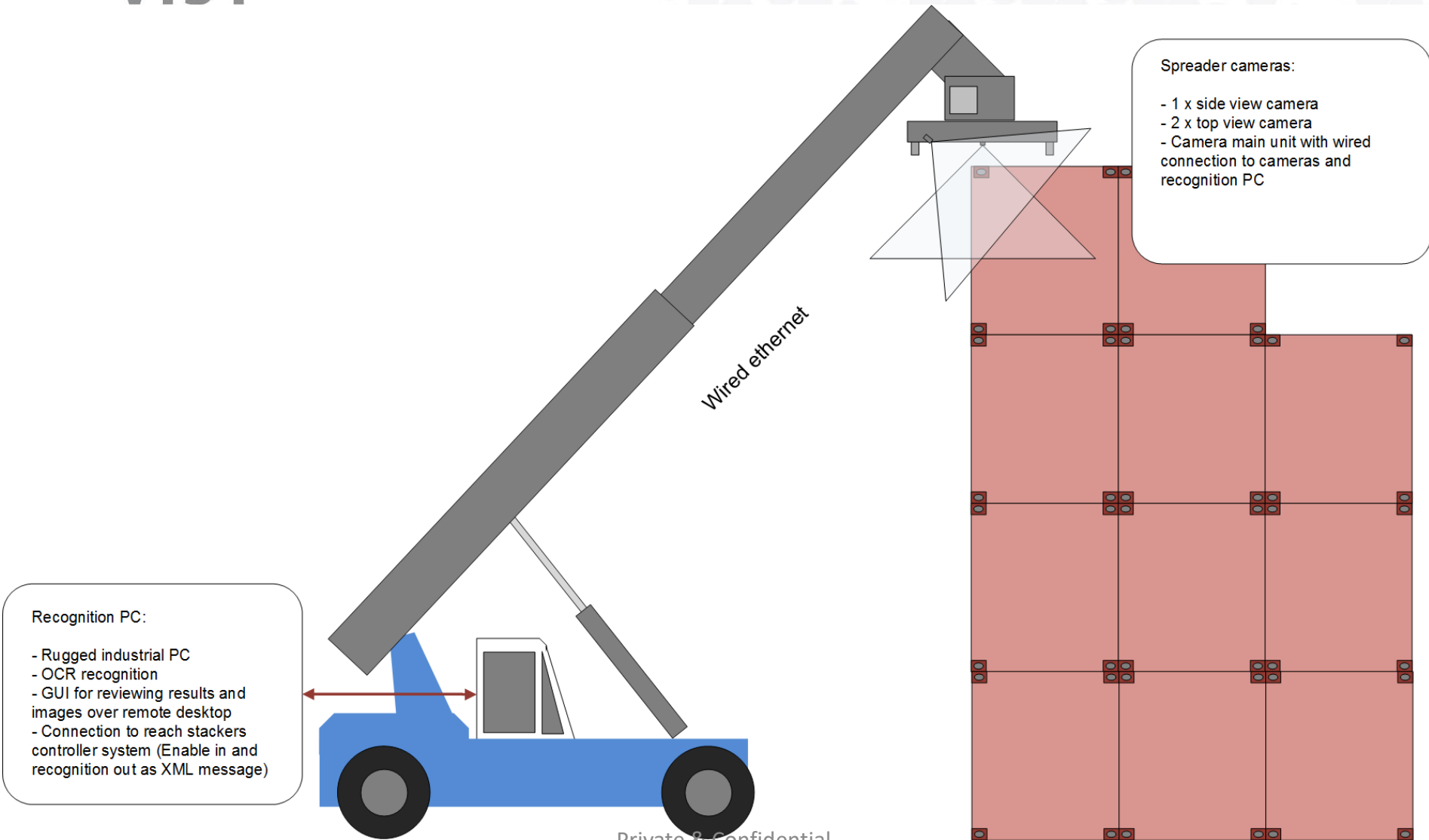
Mobile Harbor Crane Software





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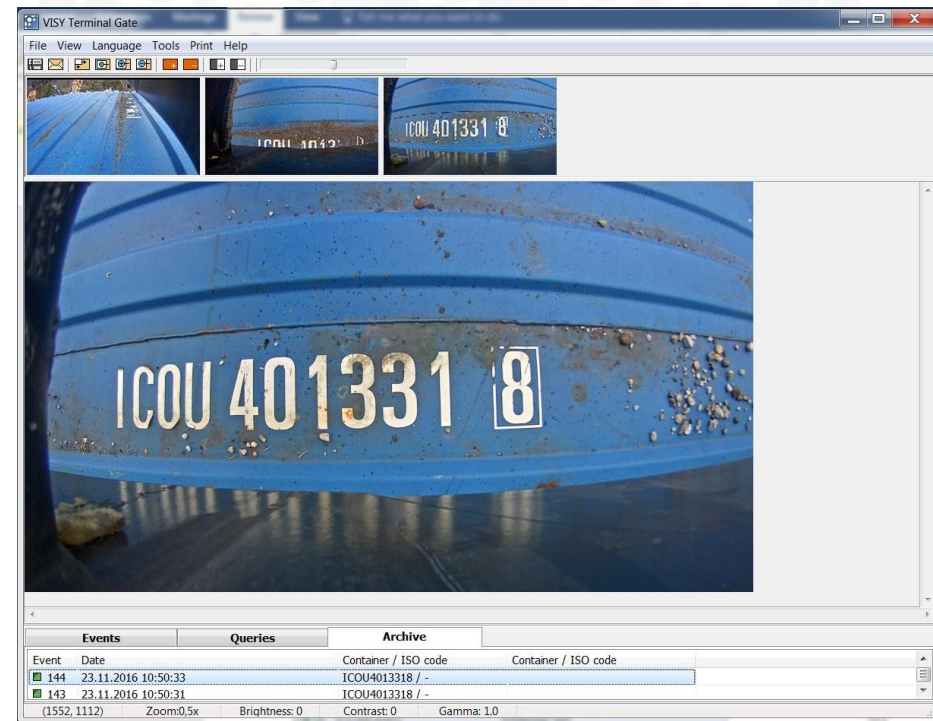
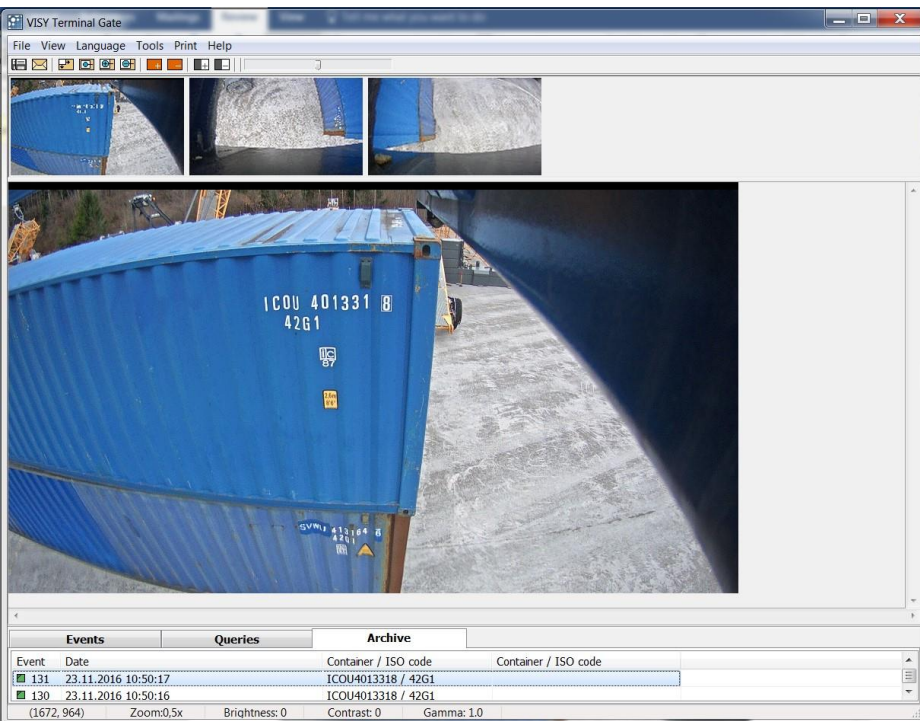
Reachstacker





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Reachstacker Software



GUI includes exception handling tool

3D Container Yard

File Tools Help

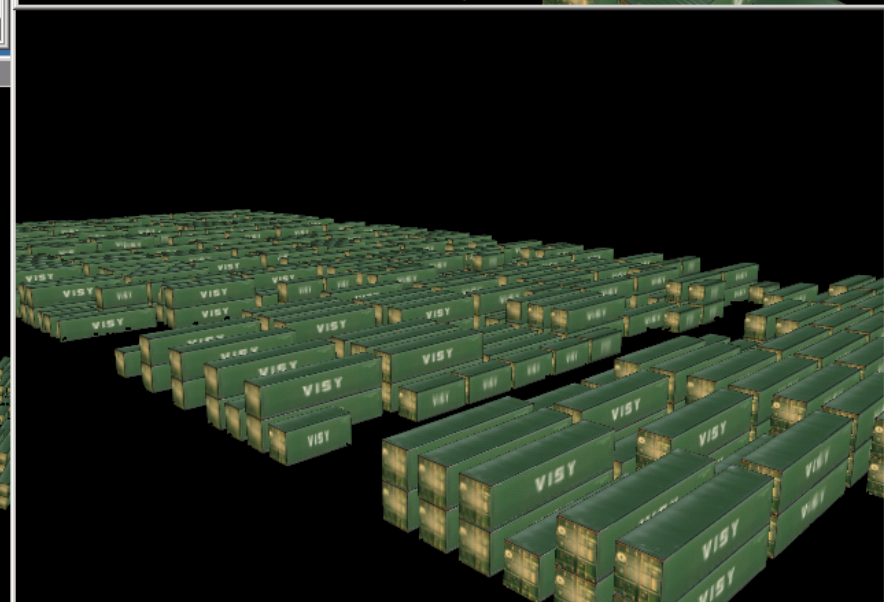
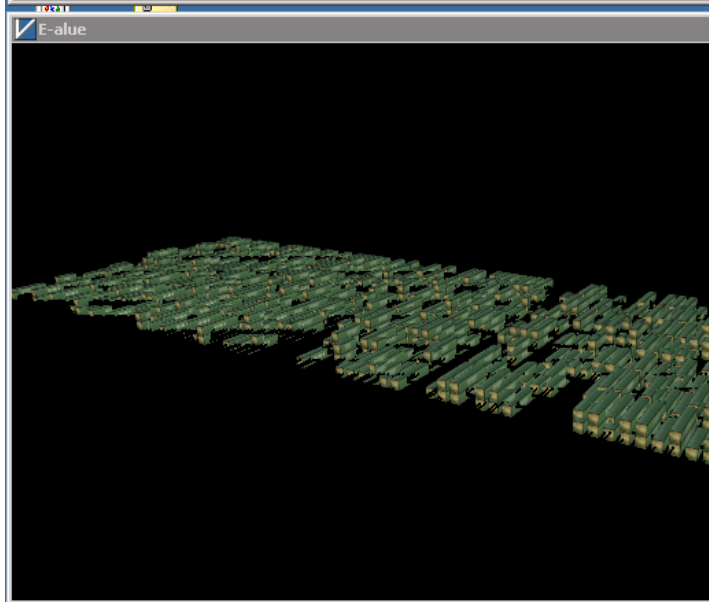
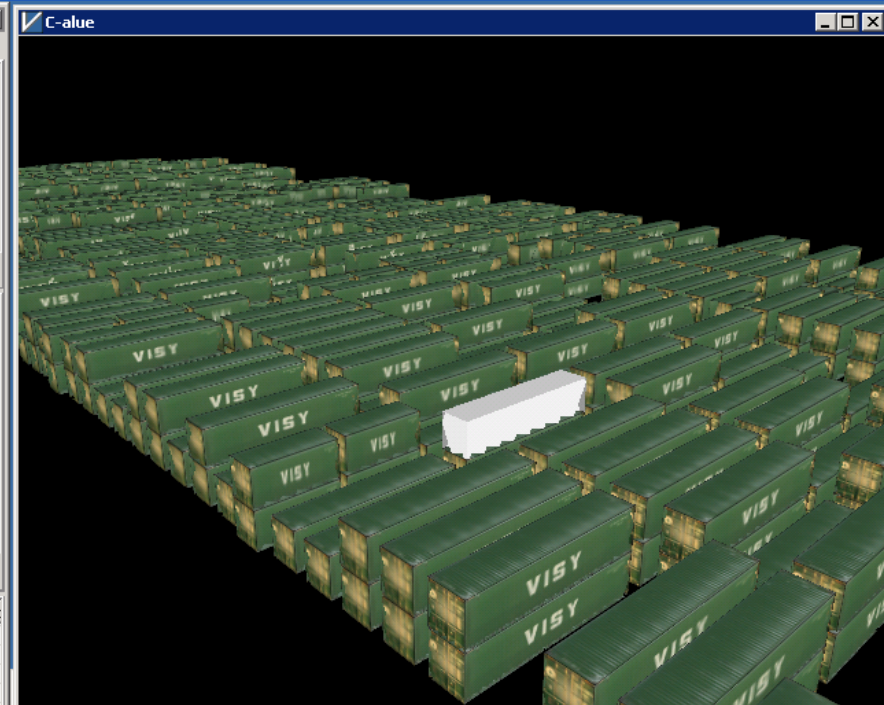
| ID | Name | Area Code | Contai |
|----|--------|-----------|--------|
| 1 | C-alue | C | 727 |
| 2 | D-alue | D | 671 |
| 3 | E-alue | E | 828 |
| 4 | F-alue | F | 784 |
| 5 | G-alue | G | 837 |
| 6 | H-alue | H | 188 |
| 7 | I-alue | I | 44 |

Filter yards

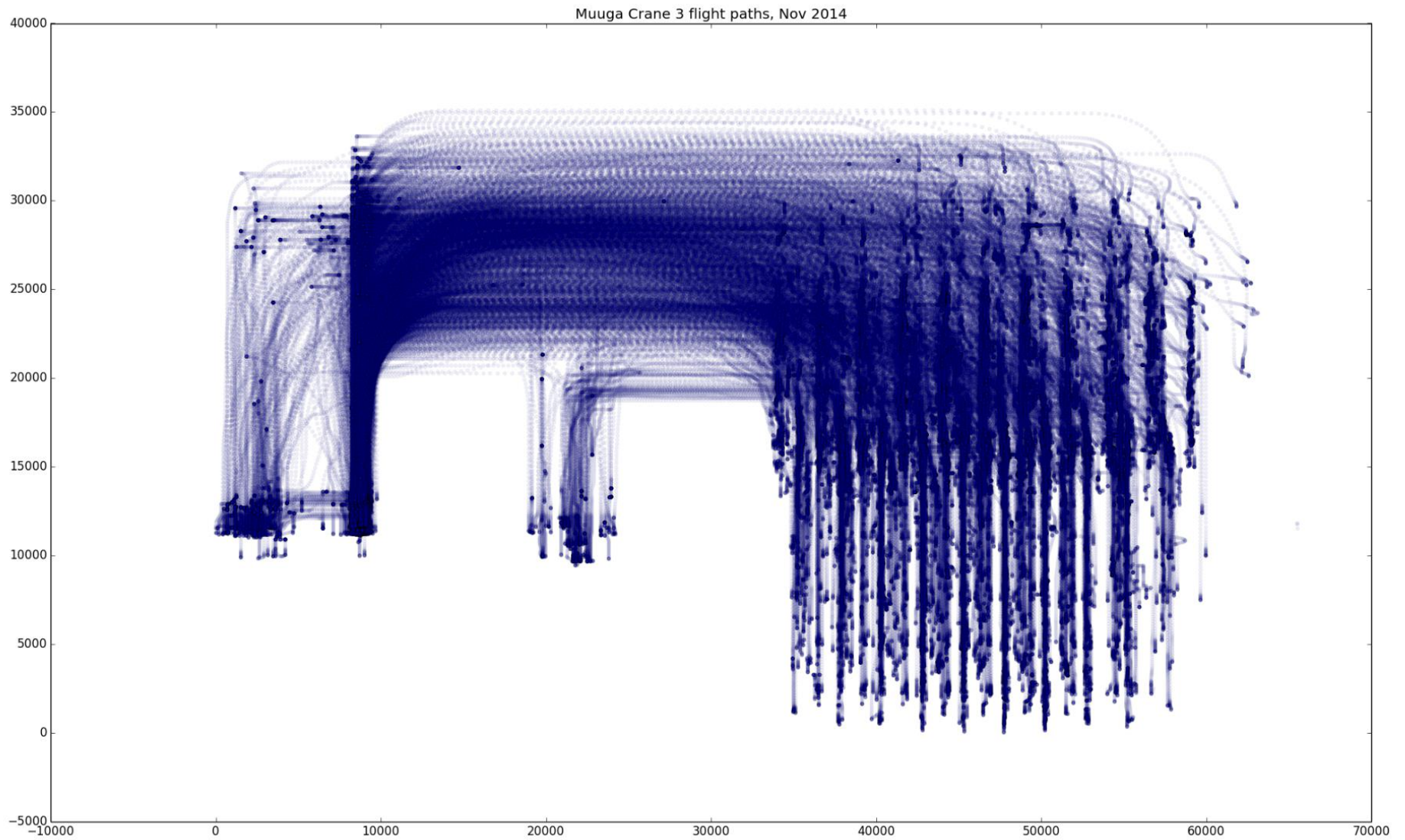
| Container | Stack code | Slot code | Slot occupation | Slot length | Cc |
|-------------|------------|------------|-----------------|-------------|----|
| CBHU8632280 | 020C | 020C09/10A | EXE | | |
| TCNU6655206 | 059C | 059C11/12B | EXE | | |
| MSKU4272738 | 064C | 064C11A | EXE | | |
| TCLU2002037 | 064C | 064C13A | EXE | | |
| FSCU4340501 | 017C | 017C03/04A | EXE | | |
| MRKU7268004 | 064C | 064C13B | EXE | | |
| CBHU8031890 | 031C | 031C03/04B | EXE | | |
| KKFU1576880 | 012C | 012C11/12A | EXE | | |
| CBHU8742902 | 059C | 059C11/12A | EXE | | |
| KKFU1813410 | 012C | 012C11/12B | EXE | | |
| MRKU0128551 | 020C | 020C01/02A | EXE | | |

Filter containers

| EventNumber | Date | Identification | ISOCODE | Yard | Rc |
|-------------|------|----------------|---------|------|----|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



Visy straddle carrier OCR automatically verifies yard integrity



Visy solutions collect KPI data in crane operations



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4-minute video...

[Enjoy!](#)



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Summary

- Visy TopView spreader OCR will enhance terminal automation for all cranes and CHE
- Integration with multiple 3P systems is standard
- Works with all spreader makes and models
- Contact us to learn more:
www.Visy.fi



Thank You!

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