

# CRANE OCR SYSTEMS

VELOCITY, VISIBILITY, & VOLUME



APS Crane OCR Systems automate manual processes typically associated with vessel operations allowing terminal operators to reduce personnel and accidents at the quay while dramatically improving productivity. The integrated suite of hardware and software components allow automated identification of containers, tractors and vessel stowage locations during the load/discharge process of each ship-to-shore (STS) crane. By the time the container has been loaded or discharged, all key data has been transmitted to the Host/TOS for processing. The reliability and cost effectiveness of the system has contributed to its becoming the most widely deployed crane OCR system in the world with over 100 installations in production.

## OUR FULLY INTEGRATED SOLUTION INCLUDES:

### STS Crane OCR

- Automated ID of container numbers, IMO labels
- Classification of equipment, configuration, door direction
- Damage inspection imaging, seal and cone check

### MatchMaker

- Visual confirmation of tractor ID via OCR
- Automates handoff and release of work instruction

### SureStow

- Recording of bay/cell/tier location during load and discharge
- Real-time notification of stowage exceptions and mis-stows

### X-Clerk Exception Management System

- Remote control of system and operational exceptions in real time
- Remote damage inspection and OCR error correction
- Integrated CCTV video feeds to monitor operations



## BENEFITS TO VESSEL OPERATIONS

- Real time confirmation of load and discharge events
- ROI in as little as 3 months
- No manual data entry; no personnel under the crane
- Increased BAPLIE accuracy
- Auto-handoff of container to and from tractor/strad
- Increased productivity of vessel operations
- 100% remote control of system and operational exceptions via X-Clerk
- Recording of PLC data and container weights

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## FEATURES AND SPECIFICATIONS

- Processes all variety of container configurations in real time including twin/quad 20' and tandem lifts
- Options for back reach and platform operations
- Automated OCR of container number and ISO equipment type codes
- No additional lighting required on the crane
- Recording of PLC events including hoist, trolley, weight, twist lock and status
- Real time TOS data interface via XML or JMS
- Wireless data/image transfer over secure RF network
- Global maintenance and support services with 24/7 proactive monitoring
- UL and CE certified components



## ABOUT APS TECHNOLOGY

APS Technology Group is a leading provider of OCR and process automation solutions for marine and intermodal container terminals. The solutions improve the visibility, velocity, and volume of cargo moving through a terminal's gate, rail, vessel and yard operations. APS leads the industry with over 700 OCR and automation systems installed in 14 countries around the world.

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