

Cargo Handling Corporation Ltd — Video surveillance revamping crane

Project definition

CHCL Port crane revamping involved a redefinition of on-board video surveillance. Special cameras were designed and deployed in order to help and aid crane operators during all container loading and unloading cargo procedures. A complete recording and a wireless telecommunication system was implemented on-board and at the operative control room, sited on the ground. High level design and expert on-site engineering allowed a direct and fast start up and commissioning of the system.

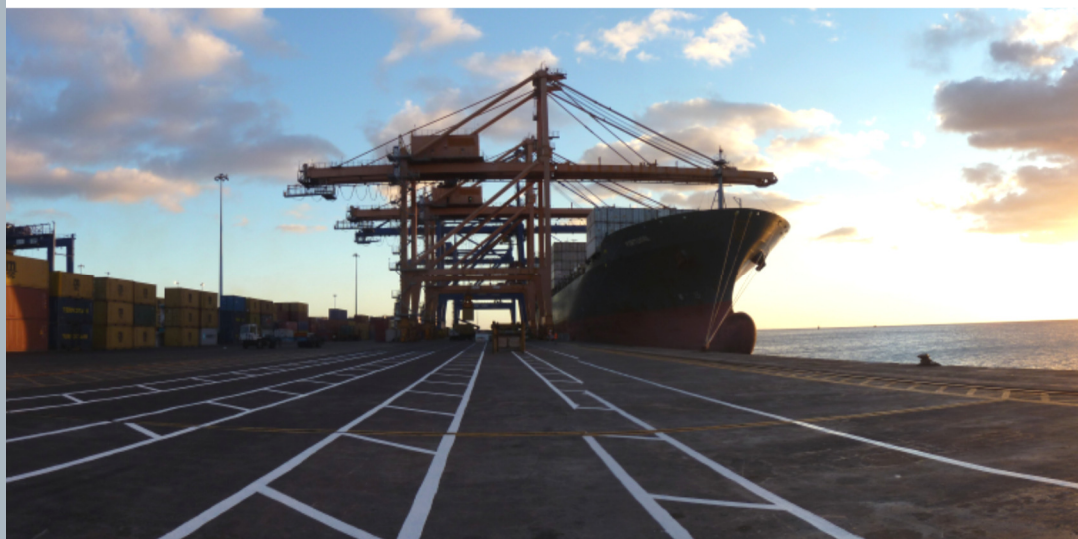
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CARGO HANDLING
CORPORATION LIMITED



Emisfera Sistemi, as partner of Cargo Handling Corporation Ltd CHCL, realised and commissioned a proprietary on-board video surveillance system at the cargo port of Port Luis at Mauritius island. Project of crane revamping and on-board automation control replacement, involved a particular crane operator aid system for container handling, during cargo shipment procedures. Particular cameras were realised in order to assist cargo loading and downloading actions on ships and dock shuttle.

System involved different video surveillance images storage sites, real time wireless telecommunications between cranes and ground control room and large storage capacity in order to record more than one month of streaming.

Case History

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Scope — scope of the revamping was upgrade crane automation and improve safety and security. Implementation of on-board video surveillance and drive video aid for the container handling during cargo operation was an important part of the effort. Our realisation will perform:

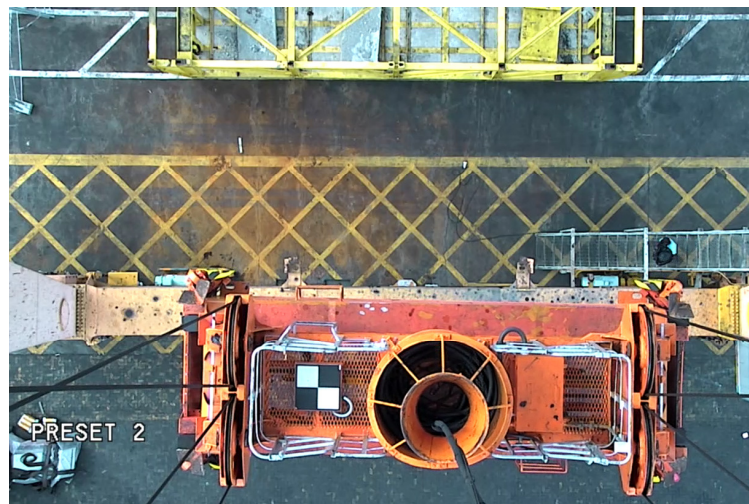
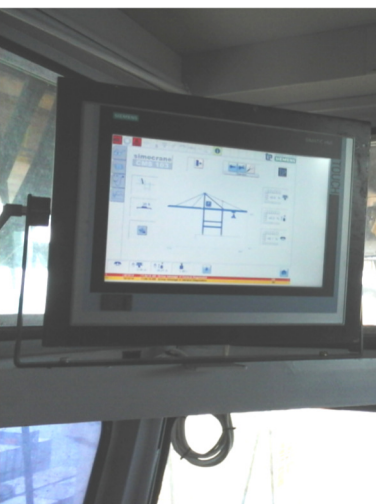
- Crane area video surveillance for security and safety issues
- Cabin operator video surveillance for human safety
- Spreader handling drive aid
- Evidence of container status and handling by the company

Technologies — In order to best fit the scope of the project, CHCL and Emisfera Sistemi set up a complete solution of cameras , DVR, technologies and wireless telecommunication system. Main feature of employed devices and technologies are:

- High resolution and full HD 3 Mpx cameras
- Big storage DVR in both location: crane on-board cabin and on-ground control room
- High capacity and real time unlicensed wireless system, done by best fitted antennas for low interference and complete coverage demand, in the moving crane area

Project and system implementation has been possible thanks different skills and capabilities:

- CHCL
- Emisfera Sistemi
- F.Project
- Agliani



Planning and deployment — Project was realised in three different phases, one by one each crane involved in the revamping. Particular working conditions and high performance requests were a very capable diver. A very detailed design and plan of all activities, combined to the high specialisation of engineers and technicians on the field, was the key of the success of this case.