

BoxCatcher Washing Station



Automatic front cover cleaning reduces service interventions

CRYSTAL CLEAR PICTURES 24/7

The BoxCatcher camera can be equipped with a Washing Station for automatic front cover cleaning, reducing service interventions. This optional cleaning device is automatically activated when image quality becomes poor, without interfering with BoxCatcher normal operation.

Operating on Ship-To-Shore cranes in harsh maritime environments, BoxCatcher cameras are susceptible to dirt and rain droplets on their front cover, possibly blurring pictures and decreasing OCR performance. The front cover needs to be cleaned regularly, requiring human intervention. To keep service interventions to an absolute minimum, GEN3 BoxCatchers can be complemented with a patent-pending Washing Station for automated and scheduled cleaning.

When the software detects deteriorated OCR image quality due to rain droplets on the BoxCatcher camera cover, the blower function is started.



WASH & GO

The BoxCatcher's optional Washing Station module is mounted onto the rail, just above the maintenance position. It's activated when image quality becomes poor, at scheduled intervals, and right before the crane starts a new operating cycle. A regular wash/dry cycle takes 1 minute and doesn't interfere with the crane's normal operation.

Customers can schedule the wash/dry cycle at specific intervals, based on crane operating time and crane moves. The water sprinklers will jet washer fluid onto the BoxCatcher camera cover, while the blower will remove the remaining droplets, ensuring crystal sharp pictures. Once the water reservoir empty, it's easily replaced, allowing safe refills of empty reservoirs in the terminal services facility.

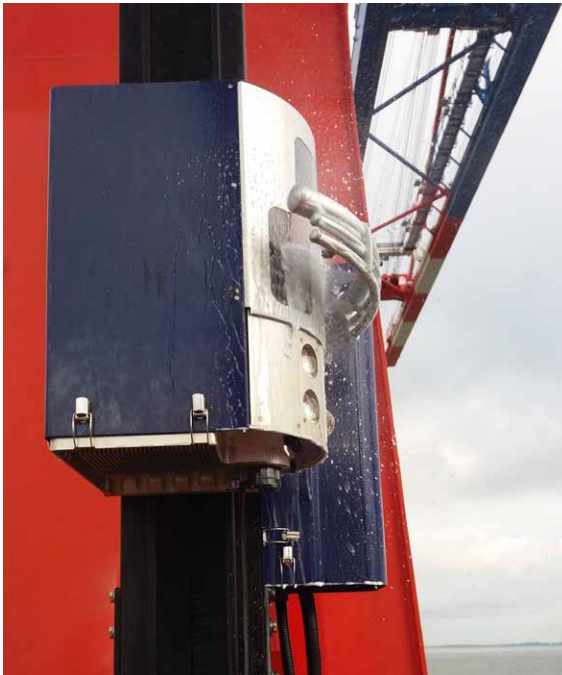
FEATURES

- Automated & scheduled front cover cleaning
- Dust, dirt, droplets removal
- Standard or operator initiated
- Plug-and-play water reservoir
- Mounted just above service position

ADVANTAGES

- Less exception handling
- Less interventions, increased uptime
- Crisp & clear pictures

**DESIGNED FOR
BOXCATCHER GEN3**



Also in wet climates the Washing Station proves its value as rain droplets may distort image quality. After showers the blower is automatically activated to dust off the cover and to remove droplets, without activating the water spray nozzle system, thus saving water and unnecessary reservoir refills. An antifreeze water mixture in the reservoir will ensure operations even below-zero weather conditions.

SAVE ON SERVICE INTERVENTION

Depending on local conditions, the Washing Station allows reducing the manual cleaning frequency with 90% compared to BoxCatchers without Washing Stations.

DESIGNED TO ALLOW EASY MAINTENANCE

The BoxCatcher camera is designed with preventive service and maintenance in mind. For easy access, the BoxCatcher camera can be redirected down to its service position. When in service mode, the BoxCatcher front cover can be easily lifted and accessed by a certified technician. If needed, components can be replaced in a matter of minutes. Indeed, the BoxCatcher plug-and-play design enables easy access and replacement of its eight internal devices without tools.

WASHING STATION UNIT COMPONENTS

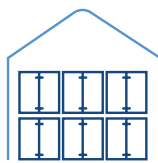
- Unit with pump (24V, 150W) and pressure reservoir, valves, air blower system (230V, 1100W)
- Two water sprinkler arms to spray camera covers
- One air blower arm to dry camera cover
- Jerrycan with 10-liter window washer fluid
- Water level sensor
- Quickfit fitting to connect hose
- Suction tube, filter

OPERATING MODES MATCHING LOCAL NEEDS

In the standard BoxCatcher Washing Station configuration, the complete wash/dry function is activated after specific crane operation time intervals as well as before a new crane operating cycle. The blower function is automatically activated when OCR images deteriorate because of rain droplets on the camera cover. Finally, the system can be activated on-demand by the operator using Camco Technologies Crane Operator Application.



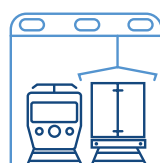
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