

## BUNBURY INDUSTRIAL CONTROLS



WA Plantation Resources (WAPRES) has a large and secure share of the woodfibre industry in Western Australia (WA) – They export around one million tonnes of woodchips to Japan every year managing thousands of hectares of sustainable bluegum plantations across the South West of WA.

WAPRES is at the forefront of the industry in all phases of the woodfibre production chain - its seed orchard, nursery, managed plantations, harvesting operations, woodchipping facilities and port operations are managed by an experienced, professional team.

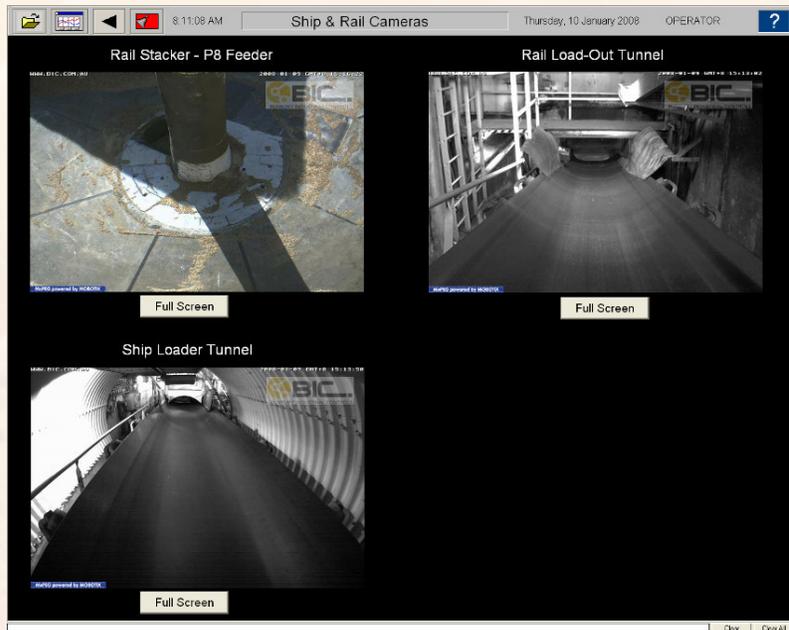
Bunbury Industrial Controls provide total control solutions that utilize the latest in automation technology.

Our engineering team has experience in a wide range of industries and will provide solutions tailored to your specific industry requirements. Industries Serviced include Timber, Oil and Gas, Mining/Materials Handling and Food Processing.

BIC provided a complete automation upgrade for WAPRES's Bunbury Port Ship Loading and Chipping facility during 2007/2008. The original system was outdated and no longer fitted the requirements of their modern operation. The BIC system provided an operator interface to run the plant with feedback on system faults, recorded history of faults, integration of weigh-bridges and tracking of plant production data. A big part of the control system upgrade involved establishing a fiber optic and copper Ethernet network to link the control system components (PLC's, HMI Servers and Operator Stations)

During this project it was identified that WAPRES had an existing analog Camera System that was over 10 years old and failing. During the automation upgrade several key cameras required to monitor plant failed during ship loading. The system had separate analog cabling and PTZ controls with analog displays at operator control stations. BIC introduced WAPRES to the MOBOTIX M12 Day Night camera. BIC was successful in their bid to install and supply these cameras due to a number of factors

1. The cost of installation was far lower than they expected when compared to analog technology. BIC were able to leverage existing Fiber and Copper Networks
2. The Mobotix Software ZOOM feature meant only 1 camera required a mechanical Pan and Tilt unit. Whereas analog technology competitors needed to supply as many as 5 Pan, Tilt and Zoom units.
3. Due to the Mobotix Camera's ACTIVE X container BIC were able to display the camera pictures directly in the HMI, removing the need for Additional Monitors
4. The cameras did not require IP Housings or Heaters to combat environmental problems.



A total of 6 Cameras were installed at WAPRES. 3 Camera's on their Ship Loading Facility and 3 Cameras on their Fixed Chipper.

BIC Engineering - Quality Automation Solutions