



October 2009 – IGT Industries Ltd announces innovative industrial vehicle controls for enhanced safety and efficiency.

IGT Industries Ltd announces an innovative backlit vehicle-control panel for a range of battery-powered locomotives used by mining businesses worldwide, using a patented printed light guide technology with **capacitive touch sensing** to enhance efficiency, reliability and safety.

Developed for Clayton Equipment, a leading supplier of locomotive haulage equipment, the LED illuminated display eliminates a conventional array of mechanical switches and incandescent bulbs, and presents large, bright, evenly lit, colour-coded, **touch-sensitive icons** to the vehicle driver. The panel is clear and easy to use and, thanks to Design LED's printed light guide technology, delivers a consumer-quality user experience that is cost-effective in low production volumes. In addition the new control panels are sealed to IP67, thereby maximising reliability and enabling easy wipe-clean maintenance.

A printed light guide is a multi-layer panel comprising a double sided PCB, side-emitting LED's and a screen-printed optical layer. The assembly is built using a combination of proven processes and patented techniques, and can achieve a total thickness of 1mm. Printed light guides allow LED illumination to be distributed uniformly within a defined area, which improves the appearance and performance of many types of industrial, commercial, domestic and consumer products. This technology combines readily with **Capacitive Touch Sensing**, allowing low-profile control panels presenting innovative graphics and icons and benefiting from having no moving parts.

"Design LED's technology helped us deliver a truly outstanding result to our customer, Clayton Equipment," said Derek McLaughlan of IGT. "Combining the printed light guide with **Capacitive Touch Sensing** has created a robust and easy-to-use solution, well suited to the target environment, and having the advantage of low-voltage operation delivering an intrinsically safe solution. We have also been able to implement new features taking advantage of the panel's colour-changing properties."

Matthew Pearson, business development manager for Clayton Equipment, commented, "The clear, easy to use touch-sensitive instrumentation sets a new standard for modern industrial vehicles and will enable our customers to improve operational safety and productivity."

Iain Kyle of Design LED added, "The success of this project underlines the versatility of our printed light guide technology, combined with **Capacitive Switching Technology** in this case enabling enhanced safety and efficiency in the workplace allowing Clayton Equipment to deliver increased value to customers."