

Pallet One

PalletOne is the largest manufacturer of new pallets in the country, with over 40 years in the business and over 17 locations across the Eastern US. In addition to manufacturing, repair and recycling of pallets and crates, PalletOne also sells mulch, and offers warehouse services such as inventory management, Vendor Managed Inventory (VMI), Just in Time Programs (JIT), and Closed Loop System Development. Some of their staff of 1,300 are focused on consulting services, offering site audits for RFP Preparation, pallet re-design, and unit load consulting.

The Challenge

With a focus on reducing waste, improving efficiency and continually improving their overall business model, PalletOne was looking for a mobile technology that could be used in warehouses, in the office, and outside where dust and extreme winter conditions in the north would not affect productivity. They had tried other tablets that did not perform in the rain and snow, did not stand up to the dust-coated manufacturing areas, or had poor visibility in direct sunlight.

The Solution

PalletOne chose the DT301T, a 10 inch capacitive touch outdoor-viewable display with an Intel processor, that is rugged enough to withstand all the demands in the warehouse, on the manufacturing line, and on forklifts. The DT301T has an IP65 rating to resist water and dust, military standards (MIL-STD) for shock and vibration resistance (810G), and EMI and EMC tolerance (461F). The DT301T also stands up to the wide weather range, from hot Florida summers, to cold rain and snow in the Northeast. With the high-capacity, hot-swappable battery packs there is never any downtime, multiple batteries can be charged using a 6 Bay battery charging station. The DT301 offers built-in Wi-Fi and Bluetooth for seamless communications sending details from the warehouse to the office, and built-in smart card/CAC reader for efficient data capture and security access level verification. PalletOne also chose the optional, fully integrated 5 megapixel back camera, which enables clear, instant project status feedback and detailed audit reporting. The Windows 10 operating system makes it straightforward for the in-house developer team to integrate the DT301T with other applications that are Windows-based, and they also create custom apps for their various business lines.



DT301T

Results

PalletOne has realized real-time capture of receiving inventory, which has greatly improved the speed of taking inventory, and improved safety audits at their many sites and customer sites. For inventory and receiving, their in-house developer team created custom apps that are based on Windows 10, including a safety app for their safety audit program. They chose the DT301T due to the ruggedness, full Windows operating system, and price point. Once they were confident with the durability, they also mounted some DT301T tablets to their forklifts using the forklift battery to charge the tablet. Using either the USB port or Bluetooth, they use an external long range barcode scanner that reaches codes 12-15 feet away. For workers who are walking around the warehouse, office, and manufacturing, they added the optional shoulder strap for hands-free carrying. PalletOne now has a stable, reliable tablet that operates in the harsh Midwest winters, and has the battery capacity to last through all range of shifts.

They have also kept in line their continuous improvement goals by streamlining their workflow for multiple business functions at a wide range of demanding locations. With real-time data on inventory, receiving, safety and other audits, and manufacturing, PalletOne has realized their goals for all of their sites and fortified the values of their brand. With the adoption of the DT301T tablet, PalletOne is better equipped to meet the challenging demands within their industry.

For more information regarding DT Research Rugged Tablets, visit <http://www.dtresearch.com>



About DT Research



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