



Asset Management - Harvesting

On-demand asset tracking and visibility for agricultural operations

Solution Benefits:

- Accessible, on-demand information from harvesting operations
- Track harvesters, trucks, trailers and other equipment in real-time
- Improve operations and harvesting efficiency with the ability to better manage and utilize assets
- Store statistical information about the asset or crop directly on the tag
- Track and monitor the condition of the crop from the field to the distribution center

The Intelleflex Worksite Management Solution for Harvesting Operations provides on-demand tracking and visibility for agricultural operations. Intelleflex solutions improve the coordination between grain and produce harvesters, trucks and other field equipment, and distribution centers. With Intelleflex XC3 Technology™, you can easily and cost-effectively track the movement and location of your harvesting assets – and optionally people in the field – to optimize usage, and improve coordination and efficiency. Intelleflex solutions enable you to more effectively manage harvesting assets and improve in-field coordination and control.

The Need for On-Demand Visibility

The lack of real-time visibility and limited coordination of harvesting equipment and delivery trucks results in inefficiencies, idle equipment, wasted time and lost revenue. Harvester planning and efficiency, and coordinating operations between third parties, are the key to a successful and profitable operation.

The Challenges

Understanding what's happening and coordinating harvesting operations in a distant field presents huge challenges. Delivery trucks can be misrouted or delayed resulting in idled harvesting equipment and labor, increasing costs and delaying deliveries. For some crops, delays in getting them to pre-cooling and distribution facilities can impact shelf life, and product quality and value.

Coordinating among third parties presents more challenges as trucks and equipment can be supplied from multiple vendors, growers, co-ops, and distributors. Not knowing where trucks and harvesting equipment are at any given time, how long they're taking to load, or when they've left for or are returning from the field impacts productivity and increases costs.

Lack of visibility for the location of gondolas, trailers and other containers limits operational efficiencies while time is spent trying to locate them.

Ensuring that the right operator is associated with the right equipment can also create problems and result in misrouted products and wasted labor costs.

The Solution

The Intellex Worksite Solution for Harvesting Operations is a comprehensive package that provides wireless on-demand visibility of the status of harvesting assets including combines, tractors, harvesters, trailers, gondolas and other equipment. You can then share this information with your personnel and third parties that you are working with to improve operations and harvesting efficiency at every step of the way.

With Intellex, you can more accurately gauge how much has been harvested and gain real-time knowledge about the status of your harvesting operations. You can have total visibility as to the whereabouts, speed and efficiency of every harvester in your fleet. In addition, you can track and monitor crops coming in from the field through to the warehouse, elevator or distribution center. With Intellex temperature tags, you can also immediately begin monitoring the condition of the crops to improve quality and extend shelf life.

Intellex combines the power of our Extended Capability RFID™ system with your existing assets and systems to provide an integrated solution for real-time visibility that improves decision making and asset utilization.

Harvesting equipment, vehicles, trailers and containers with Intellex small, discrete RFID tags are automatically tracked as they arrive and depart distribution centers, grain elevators and the harvesting site. Intellex easily deployed readers and antennas, strategically located at key positions, provide instant visibility for each asset's location. In addition, when implemented with personnel badge tags, Intellex can track driver movements and provides accurate associations for both driver and equipment.

Intellex Extended Capability RFID solutions are designed for the most demanding outdoor environments. Tags can be automatically and reliably be read at distances in excess of 300 feet and are built to withstand outdoor temperatures, moisture and dust conditions. Tags can be effectively utilized in RF unfriendly conditions involving metals and liquids that are beyond the capabilities of passive RFID.

Intellex tags feature on-board memory, enabling you to store and easily access location, time, efficiency and other statistical data directly on the tag. Data can then be uploaded and integrated with other applications for real-time viewing, analysis and decision making.

Our solutions are designed to integrate with your existing applications and networks, or be used standalone without the need for complex backend systems. Flexible application options make it simple for your field and office personnel to use the system.

XC3 Technology

Intellex solutions are enabled by Intellex XC3 Technology, allowing us to deliver the capability of active RFID-based solutions at a fraction of the cost.

- Based on ISO C3 and EPCglobal C1G2 standards for battery assisted passive RFID
- Deliver read ranges in excess of 300 feet/100 meters
- Read tags and monitor conditions such as temperature inside containers and pallets
- Operate seamlessly in RF unfriendly environments involving metals and liquids
- Tags include on-board memory for tracking and storing information about the asset or product with multiple levels of security
- Intellex offers handheld and fixed readers, multiple form factor tags and antennas, as well as starter kits for piloting projects

Intellex Products Related to this Solution

- Handheld and fixed readers and antennas
- Standard, metal, extended temperature, badge and temperature sensor tags

For More Information

To learn more please visit our website or contact us directly. We look forward to hearing from you.

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