

# Yale Vision

Wireless Asset Management

[www.yale.com](http://www.yale.com)



# Manage cost. Optimize productivity. Protect your assets.

Take your fleet operation to the next level with wireless asset management from Yale. The Yale Vision solution can drive fleet efficiency, improve operator performance, reduce your carbon footprint and lower your overall material handling cost.

## Know what your trucks are doing

If you can't see it, you can't fix it. Five usage meters track data and reports reflecting both utilization and application. This data along with our GPS technology enables optimization of fleet size, structure, and location for maximum productivity. Yale Vision helps to ensure you have the right size fleet for maximum productivity and efficiency.

## Promote operator confidence and performance

Whether you own or lease, your lift truck fleet represents a significant investment. Protect that investment from abuse, neglect and unauthorized operation with features like impact sensing, preventative maintenance tracker, and access control. The Yale Vision option ensures that the truck will not operate until the operator has completed standard OSHA pre-shift checklists or specific industry-mandated checklists. It's peace of mind, around the clock and throughout the fleet, wherever your trucks are located. Once you see the reports on your Yale® units you'll want to equip all the trucks in your fleet with Yale Vision technology.

## See your total cost of operation in a whole new light

Knowing your total cost of operation (TCO) provides business intelligence above and beyond simply knowing asset ownership costs. Improving cost management of trucks, fleets and labor is made possible with comprehensive monitoring and reporting of operational costs which can include contract costs, maintenance, acquisition, labor (when operator access data is enabled) and more. Cost of operation can be viewed and analyzed by truck, by fleet and by location. You'll benefit with increased knowledge of actual fleet utilization and costs to help you get the most value from your lift truck assets.



# Yale Vision

**Internet portal provides convenient access to truck and fleet data**

Access the Yale Vision portal via desktop, laptop, tablet or smart phone – anywhere you have an internet connection – and you'll see every truck in your fleet that's been equipped with the compact and rugged telemetry module. The system communicates via cellular or Wi-Fi connection to our secure Yale Vision portal. Fleets with multiple brands are no problem, enabling you to equip your non-Yale® lift trucks with the same technology. A customized dashboard handles the data analysis, providing clear, concise and interactive reports to enable assessment of fleet performance, efficiency and operator performance. E-mail notifications can be configured to make you aware of truck impacts, OSHA checklist faults, and diagnostic trouble codes as they occur.



# Three scalable levels of Yale Vision

Ranging from wireless monitoring to wireless access to wireless verification, provide you a customized level of asset management for your operation



## Level 1 - Wireless monitoring

**Wireless monitoring** is ideal for customers who simply want to monitor utilization, impacts, diagnostic trouble codes, schedule and track preventive maintenance, better understand your total cost of operations, and know the truck's location at a site.

### Remote hour meter/usage tracking

**View and manage key performance indicator data per truck, fleet and location.** The usage tracking application can create reports that show the utilization of individual or fleets of trucks. These calculations are hour meter-based over user-specified intervals such as shift, day or other time period. Shift utilization comparisons can easily be generated and viewed, providing valuable insight into localized performance levels.

### Fault code tracking

**Track and respond to CAN-based fault codes.** Fault code tracking can be configured to send rapid message alerts of fault code events by specific vehicle. Depending on severity, the fault can be stored for attention at the next service, sent to the dealer and/or customer to alert the need for service at the next opportunity, or used to initiate a call for immediate attention.

### Impact sensing

**Report, display and log impact events.** Receive alerts via e-mail and the portal anytime an impact exceeds the preset g-force with the rapid messenger option. Data recorded and reported include truck ID, operator ID (if properly equipped), asset serial number and details of the impact event, including the time, direction of the impact, as well as the force.

### Cost of operations

**Aggregate ALL your costs – see your real TCO.** Depending on your level of management automation, truck costs can be automatically and/or manually entered to produce comprehensive operational reports per truck, fleet and location. Acquisition, maintenance, and operator costs can be totaled and viewed as cost per hour, day, week, month or year as needed with a user-specified date range. Single or multiple trucks can be grouped as needed for reporting and management purposes.

### PM Tracker

**Remotely view and manage equipment servicing, all via the Yale Vision portal.** Select and view service types, set service intervals and develop a totally customized preventive maintenance program, all based on actual hours in service. Service history and forecast maintenance activities can be viewed and managed by truck and fleet groups. Complete PM service records are available via the portal interface whenever required.

### GPS

**Locate your rolling assets,** view where truck impacts are occurring at your facility, and breadcrumb drive sessions using Yale Visions GPS feature.



- Truck monitoring via web portal
- Remote hour meter / usage tracking
- Fault code tracking
- Impact sensing
- Cost of operation
- PM Tracker
- GPS
- Access control by operator (swipe card)
- Unattended and/or no operation truck shutdown

## Features

Wireless monitoring package, **PLUS** access control and automatic shutdown



## Level 2 - Wireless access

**Wireless access** now adds a proximity card reader to the system to present a level of safety at the site as well as add visibility to the operator's performance. All the information you receive from Level 1 wireless monitoring will now be connected to an operator. Measure utilization by operator to better understand who is causing avoidable damage at your site with impact monitoring.

### Access control

**Prevent unauthorized operation by untrained operators.** The wireless asset management system on the truck can be set up to prevent access of the unit by an untrained operator. The operator credentials are entered via the web portal and include details of the operator, badge ID number and training expiration date.

### Automatic shutdown

**Save energy when trucks are not in use.** When enabled, this option detects truck activity and operator presence, commanding a shutdown when preset inactive parameters are met. If your facility is enrolled in an energy audit or carbon footprint program, this documented energy conservation initiative provides clear evidence of lift truck compliance.



## Level 3 Wireless verification

Wireless Verification includes all the features of wireless monitoring and wireless access plus adds the ability to perform mandatory OSHA checklist without using a pen and paper.

### Features

Wireless access package,  
**PLUS** operator pre-shift  
checklist

- Truck monitoring via web portal
- Remote hour meter / usage tracking
- Fault code tracking
- Impact sensing
- Cost of operation
- PM Tracker
- GPS
- Access control by operator (swipe card)
- Unattended and/or no operation truck shutdown
- Operator pre-shift checklist

### Operator Pre-shift Checklist

**Help ensure operators complete mandatory checklists – before truck operation.** OSHA requires that all forklifts be examined at least once daily before being placed in service. Checklists can be programmed right into the Yale Vision unit, with full visibility via the portal. Your operators will be automatically disciplined to run through all required checks prior to startup and truck movement.





## Technology with a difference – our dealers

### Yale Vision plus Yale dealers has no equal

**At Yale Materials Handling Corporation, we pride ourselves on being more than just a lift truck manufacturer.**

Throughout our Dealer Network, we're also fleet managers, parts suppliers, capital procurement specialists and trainers. You'll find when it comes to lift trucks, Yale® dealers are strong partners.

Yale Vision and your local Yale® lift truck dealer provide the experience and technology that can help you optimize fleet performance, operation and cost. Our dealers and the people they employ are a strong asset. They are professionals who understand your business, can assist you in selecting the right lift truck and support you after the sale with fully equipped service vehicles for quick response.

For Yale fleet owners and operators, Yale Vision is the only wireless asset management solution designed and supported by Yale®, available on new equipment, and as an easy retrofit for existing trucks in your fleet. Mixed fleets are no problem. Your Yale® dealer can offer you the option of equipping non-Yale® lift trucks with Vision technology providing a solution for your entire fleet.

### Raise your productivity by working with the experts – the Yale fleet smart team.

**Yale offers centralized fleet management programs** to help you effectively maintain, monitor, analyze and optimize your material handling and lift truck fleet. With Yale fleet management, Yale Vision and our value-added parts and service programs, you can maximize fleet uptime and productivity while saving money over the long term. Add a strong, stable network of independent lift truck dealers for service and support, and your fleet can perform at optimum levels and with lower operating cost.


For more information, or to find your nearest Yale® dealer, go to [Yale.com](http://Yale.com).



YALE MATERIALS HANDLING CORPORATION

P.O. Box 7367, Greenville, NC 27835-7367

[www.yale.com](http://www.yale.com)

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Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Consult your Yale® Industrial Truck Dealer if any of the information shown is critical to your application.

Specifications are subject to change without notice. This truck meets all applicable mandatory requirements of ANSI B56.1 Safety Standard for Powered Industrial Trucks at the time of manufacture.

Classified by Underwriters' Laboratories, Inc., as to fire and electric shock hazard only for Type E industrial trucks.

Manufactured in our own ISO 9001 and 14001 Registered Facilities

2878B 4/2016 All trucks shown with optional equipment.