

2020 pandemic outbreak calls for extremely safe and efficient working environments



RETAIL, T&L, MANUFACTURING, AND HEALTHCARE COMPANIES LOOK AT NEW SOLUTIONS FOR WORKERS' SAFETY AND EFFICIENCY IN PANDEMIC TIMES.

Introduction

The world is facing an unprecedented adaptation period initiated by the COVID-19 pandemic. Many countries are following the guidelines from the World Health Organization (WHO) regarding the introduction of physical distancing and cleaning measures as some of the ways in which transmission of the disease can be reduced.

The application of these measures has resulted in the closure of many businesses across industries, as well as restrictions on travel and social gatherings. For most people, working from home and hosting on-line discussions and meetings are now normal practices. However, essential workers in Retail, Transportation & Logistics, in many Manufacturers, and of course Healthcare, settings do not have the opportunity to work from home and have to continue to work in their usual workplaces.

Keeping all workers in the food, pharma and consumer goods production, grocery stores, hospitals and supply chains healthy and safe is critical. Maintaining the movement of food and essential goods along the supply chain is an essential function to which all stakeholders need to contribute.

Companies are called to rethink their processes and the technologies used in order to improve the production efficiency while preserving a healthy working environment. Solutions to maintain the trust and confidence of both employees and customers, must be carefully re-evaluated. Datalogic is ready to support these new needs with a comprehensive range of products and solutions addressing several applications in the Retail, Healthcare, Transportation & Logistics, and in Manufacturing Industry.

Effective cleaning of devices and potential consequences

The COVID-19 outbreak has changed the paradigm of cleaning and sanitizing devices across most industries, in order to provide extra protection to both operators and customers. Cleaning frequency and methods are being implemented everywhere. Datalogic products are all compatible with the Centers of Disease Control and Prevention (CDC) directive for covid-19 sanitization.





Disinfecting

To disinfect scanner/device surfaces, Datalogic recommends using one of the two following solutions:

- Isopropyl Alcohol (70% solution at a minimum)
- Household Bleach (5-6% sodium hypochlorite)
 $\frac{1}{2}$ cup bleach diluted in 1 gallon of water (120ml bleach in 3.8l of water)

Both options are recommended by the CDC as effective disinfecting solutions.

Datalogic also offers a heightened level of disinfection on selected models of mobile computers and hand held scanners:

Disinfectant-ready models – selected models that withstand more aggressive cleaners/detergents than the CDC recommended basic solutions (listed above).

- Hand held scanners: Gryphon™ (all models), RIDA™ (Healthcare model only)
- Mobile Computers: Memor™ 1, 10 and 20; Joya™ Touch (all models)



Antimicrobial and Disinfectant-ready models – selected models that offer an extra value-added feature which prevent the proliferation of microorganisms such as germs and bacteria.

- Hand held scanners: Healthcare models of Gryphon™ and RIDA™

Datalogic disinfectant-ready enclosures will resist the harsh-cleaning products listed below:

PRODUCT	CHEMICAL CONTENT
Sani-Cloth® HB, Sani-Cloth® Plus, Super Sani-Cloth	Quaternary Ammonium Chloride solution
Hepacide Quat II	Virucidal disinfectant cleaner
Alcohol Wipes	70% Isopropyl Alcohol
CaviWipes™	Isopropanol 10-20%; Ethylene Glycol Monobutyl Ether 1-5%
Virex® 256	n-Alkyl Dimethyl Benzyl Ammonium Chloride; Didecyl Dimethyl Ammonium Chloride
Formula 409® Glass and Surface Cleaner	n-Alkyl Dimethyl Benzyl Ammonium Chloride; n-Propoxypropanol
Windex® Blue	Isopropyl Alcohol
Clorox® Bleach; Clorox Healthcare Bleach Germicidal Cleaner	Sodium Hypochlorite; Sodium Hydroxide
Hydrogen Peroxide	3%
ProSpray™ Wipes (Disinfectant towelettes)	0.647% o-phenylphenol; 0.070% o-benzyl-p-chlorophenol
100% Gentle dish soap and water	

Datalogic’s antimicrobial products are certified by ISO22196 and are created by adding silver-Ion additives to the plastic which inhibits the growth of microorganisms such as germs and bacteria.

Harsh cleaners and chemicals can cause components and enclosures of devices to become discolored, weak, brittle and lose integrity. Datalogic’s Antimicrobial and Disinfectant-ready models of mobile computers and hand held scanners will sustain the increased demands of sanitation.



RESISTANT TO HARSH DISINFECTANT SOLUTIONS



Leverage wireless charging technology to maintain product reliability despite increased cleaning frequency

Companies are all called upon to pay extra attention to cleaning devices and surfaces, especially those with higher human exposure. Wireless charging addresses the number-one failure point of all cordless devices: oxidized charging contacts. With increased frequency of cleanings and the use of harsh chemicals, charging contacts can deteriorate over time. Additionally, contacts can be receptacles for dust accumulation and microbial growth; wireless induction charging eliminates this risk. Datalogic has implemented wireless charging technology in key solutions, such as the Gryphon hand held scanners, Joya Touch, and Memor 10 and 20 mobile computers, resulting in greater reliability, longer device lifetime, and a lower total cost of ownership.

RETAIL

Retailers are responding to the most rapid paradigm shift they have ever experienced. The grocery segment has been impacted the most by having to implement safe physical distance and drastic cleaning measures. This is in addition to allocating merchandise to meet the heightened demands of in-store purchases, upscaling e-commerce capabilities to meet unprecedented demand, as well as reinventing their fulfillment and last-mile deliveries. Mass hiring and accelerated training for a multi-faceted workforce, has also had a great impact on the operations and processes of retailers. Datalogic's advanced technology can further improve the safety of workers and customers while providing accuracy and efficiency in various initiatives to consider amidst the 'new normal' in retail.

Point of Sale devices able to sustain increased demands for sanitation

Retailers are working hard to reduce the spread of germs throughout stores to help preserve the wellbeing of their employees and customers. Barcode scanners are handled by cashiers and customers during every transaction at attended lanes or at self-checkouts which are areas of specific concern. All Datalogic scanning devices, inclusive of fixed scanners such as the Magellan™ Series at POS checkouts, will sustain increased frequency demands of sanitation with recommended CDC guidelines. Auxiliary hand held scanners such as the Gryphon 4500 Series are disinfectant-ready, able to resist cleaning with certain harsh chemicals. In addition, antimicrobial models used extensively in the Healthcare industry can also be beneficial in retail environments.



Self-Scanning will speed up the shopping journey while helping to keep everyone safe

During this critical time, physical stores are limiting the number of people that can simultaneously be present inside the establishment. According to a brief survey conducted by Datalogic, retailers are also seeing the average shopping cart value significantly increase.

Adopting a self-shopping solution can be of great help and doesn't require a long implementation period. In fact, according to Datalogic experts collaborating with the top ISVs deploying self-scanning applications, this type of implementation can take a very short time (less than 2 months). The advantage for the retailer is incredibly wide, from automatic distancing to no queue at the checkout, efficiently managing customer traffic throughout the day. Solutions such as the Joya™ Touch A6, a multi-purpose device is ideal for various retail applications such as Self-Shopping, Queue busting, Access Control and more, is a great option for this initiative.



Mobile Computers – ideal companion for online order fulfilment and last mile

The pandemic has transformed the retail experience. Nowadays, inventory and availability on the shelf is key and the standard for fulfillment is contactless delivery and curbside pickup. Datalogic can offer a wide range of Android-based products to equip the workforce with powerful multi-functional tools that assist and guide associates during their tasks.

The Memor™ Series includes a very scalable offer, from Memor 1 (simple and effective), Memor 10 (all-in-one unit with both WWAN and WLAN capabilities) and the new Memor 20 (the ultimate PDA for all Retail applications). The Memor family is disinfectant cleaning ready with world class scanning and a removable battery.

Top mobility features found in Memor 20 that address the 'new normal' in retail

- A secondary top edge display – essential for multitasking in hands-free applications. Many employees stocking the shelves or fulfilling the online orders throughout the store must also attend to alert notifications of customers picking up at curbside. With a quick glance at the notification panel, they can see if new online orders are assigned or if a customer has arrived at a designated parking spot for pickup.
- Robust 2D ultra slim scanner - able to scan purchase confirmation barcodes or IDs through a car door window for contactless curbside pickup.
- Featuring the largest screen size in a rugged mobile device while still in a practical and ergonomic design, the Memor 20 provides an easier way to verify order-picking accuracy.
- And, for all-around management and security of multiple mobile devices amid mass employee hiring – SmartDock, a smart charging locking dock that can manage charging profiles, authenticate user's identity, and even swap profile settings before checking out a device.



Automatic scanning portal helps to validate in-stores online order fulfilment

Home delivery of online orders in Grocery is experiencing a massive boost. However, the customer experience has been negatively impacted due to incomplete orders, long delivery windows, and order errors. Physical stores are now serving as micro-fulfillment sites at a higher capacity to satisfy the growing customer demands.

Datalogic's Jade™ X7 is an automatic fast-paced portal scanner that can easily interface with the store's network via a dedicated API (provided by Datalogic). In this configuration, the Jade X7 can be a very efficient 'control gate' to validate the items picked up from stock right before packing them. Ensuring the order is complete and accurate.



Optimum scan performance becomes essential to maintain when triggered through the plexiglass barriers for reading ID cards, loyalty cards, or coupons, in both printed and mobile formats

Most supermarkets, pharmacies, convenience stores, restaurants, and service providers are permanently installing plexiglass partitions at the checkout counters to act as a safeguard by limiting transmission of the virus between customers and the associates processing their transactions. Datalogic scanners used at checkouts, such as the Magellan 1500i and the Gryphon 4500 series, can maintain excellent depth of field and sweep performance, even through thick plexiglass.

TRANSPORTATION & LOGISTICS

COVID-19 and the measures taken to restrain its spread have created unprecedented conditions for the world's transportation and supply chain networks. As a result of this, e-commerce and food retail are experiencing an extensive demand growth. The huge challenge for many companies is how to meet the heightened customer delivery expectations with accuracy and speed, while working in healthy and safe environments across several logistic centers, warehouses, and transportation fleets.



Ensuring last-mile safety through contactless delivery

In a matter of days, delivery has turned from a convenience to a necessity, especially in the grocery, foodservice and healthcare segments. Many businesses that required a signature on a mobile device as proof of delivery before the pandemic, have had to modify this requirement in order to accommodate safe social distance measures. With robust mobile computers such as the Memor 10 and 20, businesses can turn to technology to address safety requirements and enable contactless delivery without limiting their delivery options or services. Using the integrated camera to take a picture of the goods delivered at the front door (or a pre-determined drop-off location) allows a true contactless delivery means. This is becoming more and more prevalent amidst the pandemic and will most likely remain in implementation after.

FIXED SCANNING SOLUTIONS ARE 100% CONTACTLESS, SINCE THE GOODS ARE READ 'ON THE FLY' WHILE FULFILLING THE ORDER



Contactless barcode scanning – a safer and efficient fulfillment solution in most areas of logistic centers

Fixed scanning solutions are a suitable enhancement for Goods-To-Person (GTP) fulfillment picking mode because they are based on a stationary positioned barcode reader that captures the data content of items seamlessly. This enables the operator to fully focus on order creation. Since there is no need to handle the devices repeatedly, operations are much safer, especially at a time when it is extremely advisable not to touch shared surfaces. The need for disinfecting the devices is eliminated and with fixed position readers where there are no cables and no cradles to deal with.

Contactless scanning solutions have many other advantages for improving business processes. For example, fixed readers help operators increase their productivity because they do not interfere with their process or the time it takes to grab hold of a device and aiming at the label to read it. When an operator presents the item to be scanned in front of the reader, it will be automatically activated, then it will send the scanned data to the host. With this approach, operators do not have to touch any scanner at all having the additional advantage of performing contactless barcode reading, a great benefit especially when dealing with heavier items or carton boxes that require more strength to be lifted and moved.

Datalogic offers the widest selection of fixed scanners covering different price/performance point requirements, from the cost-effective scan modules like GFS or DSM to the industrial higher-end Matrix 410N. The Matrix 220™ and Matrix 300N™ are compact, robust, high performing industrial devices that deliver the perfect answer to the COVID-19 challenge by eliminating any need to touch with the device, therefore reducing the need for constant cleaning and disinfection. These devices fit perfectly into areas like Pick-To-Light, Put-To-Light, Order Fulfillment and lots of Goods-To-Person.



Avoid shipping and invoicing inconsistencies amongst critical demand

As essential and sometimes critical goods leave the logistic centers, perfect matching of the Proof-of-Delivery (POD) is vital, especially when carriers are implementing 24/7 deliveries and pickups across facilities during the pandemic. Datalogic offers a selection of rugged Android-based mobile computers solutions, such as the Memor 10 and 20 that are compliant with the CDC cleaning measures directive and can help improve operations and driver efficiency to assure perfect matching between the shipping and invoicing list, thus avoiding any discrepancy or possible reclamation by the customer.

MANUFACTURING

Due to the COVID-19 pandemic, companies are requested to put in place specific actions in order to guarantee a safe, yet comfortable working environment to their employees. Most of these initiatives are following two main factors: operator distancing and more frequent and accurate cleaning of workstations and equipment. These two topics are extremely important especially in case of labor-intensive industries such as automotive, electronics and packaging. In critical segments of the supply chain that are requested to not be disrupted, such as food, beverage, pharma, medical devices, home and personal care goods, these measures become essential to follow. Datalogic is ready to support these new needs with a comprehensive range of products and solutions addressing several applications in the manufacturing industry.

A safe environment should not affect production efficiency

Datalogic hand held barcode readers can be used in order to keep track of the goods processed along the manufacturing line. Both the industrial PowerScan and the general-purpose Gryphon hand held scanner families are compliant with the CDC cleaning measures directive. In addition, the Gryphon 4500 features a disinfectant-ready plastic housing that makes it resistant against harsh chemical products. The plastic housing together with the wireless charging capabilities makes Gryphon the ideal solution when frequent device cleaning is required. For even more critical environments, the Gryphon Healthcare Series designed to fulfill hospital requirements, adds the capabilities of reducing the micro-organism proliferation thanks to the special antimicrobial plastics.



Intralogistics support for enhanced fulfillment requirements

While in the past, companies were dealing with few big shipping batches to distribution centers, now they must create many small 'custom-tailored' shipments. The pressure to guarantee high-level standards in order fulfillment is increasing and operators need to take care of order preparation and shipment in an efficient and error-proof way while respecting the safety recommendations. Datalogic can offer a wide selection of solutions for warehouse operations including mobile Android-based glove operable PDA terminals, supporting operators in picking, inventory management and order fulfillment activities. Vehicle mount solutions composed of industrial vehicle terminals and far-to-close distance 1D/2D barcode hand held readers allow operators to perform the picking activities directly on the forklift with no need to get off the vehicle.

Increase workforce efficiencies while limiting device sharing

Datalogic hand held readers also enable teamworking with personal equipment leveraging the proprietary STAR radio connectivity that allows to connect up-to-16 readers to the same host. This possibility is highly beneficial as it allows to assign a dedicated working equipment to each operator even when multiple operators are working in the same manufacturing or assembling station. Avoiding equipment sharing among operators can surely be an excellent way to minimize cross-infection opportunities.



Empowering operators to perform their daily activities in a better and safer way

Flexible automation is another key area to increase operational efficiency with no need to add more operators working in the same spot. Solutions leveraging robots, conveyors, and automated guided vehicles (AGVs) enable flexible management of goods in intralogistics processes. Datalogic offers a wide selection of components to be used in these solutions, ranging from fixed barcode readers to track and trace goods, to machine vision smart cameras and vision processors to guide robots in the picking process.

HEALTHCARE

In any area of a healthcare facility, the need to limit the spread of germs is critical to improve patient care and protect employees in contact with infected patients. This can be particularly important when medical devices, including bar code scanners, travel from room-to-room on a medication cart, are stationed in high-traffic areas or are used by multiple personnel. Healthcare grade hand held barcode scanners and mobile PDAs help healthcare facilities increase their efficiency, meet federally mandated goals, and fight against healthcare associated infections (HAI).



Limiting the spread of germs is critical to improve patient care and protect employees

To protect patients and employees, shared equipment must be kept in a clean, sanitary condition; yet, routine cleaning of bar code scanners with harsh disinfectant solutions will typically erode the plastic enclosure over time, potentially damaging the scanner's internal components and functionality. If not cleaned frequently, the scanner could also be the carrier of harmful germs.

To solve this challenge, Datalogic Healthcare products' Disinfectant-Ready enclosures are designed to withstand daily cleaning with harsh cleaning solutions that effectively fight germs and bacteria. Such is the case with the Gryphon Healthcare series of bar code readers from Datalogic. The Gryphon Healthcare readers are designed with disinfectant-ready enclosures that resist harsh chemical cleaning and embed anti-microbial additives for hospital settings where the need to suppress the growth of bacteria is always present.

Eliminate errors while improving workflows in massive patient test admittance

Positive patient identification starts at hospital admittance and carries through until discharge. The key to making sure the right patient gets the right treatment at the right time begins with electronic tracking. Using bar codes and data capture devices, your operation can not only eliminate errors, but improve workflows. Barcode scanners, like the Gryphon Healthcare and RIDA Healthcare, attached to medical charts and patient wristbands ensure accurate and reliable identification throughout the patient journey. With the help of Datalogic's hand held scanners and mobile computers, hospital workflows will be more efficient and manual data errors can be eliminated with patient file reliability, tracking and follow up.



Safely and accurately track thousands of specimens being tested daily

When thousands of specimens are being tested, it is critical that the right tests are administered to the proper specimen and then accurately reviewed and recorded. Any errors could mean a grave outcome for a patient. Using automatic data capture, clinical labs can track and trace specimens safely, efficiently, and with 100% accuracy, all while helping combat any spread of infection. Maximize the integrity of your laboratory operations with Datalogic's hand held scanners and mobile computers, tracking every stage of the laboratory workflow.

Conclusion

In response to COVID-19, businesses must ensure operations continuity of essential functions while providing a safer working environment to critical infrastructure workers in Healthcare, Retail, Manufacturing, and Transportations & Logistics. Datalogic is ready to support various technological implementation needs with a comprehensive range of products and solutions addressing several applications in every industry.

To learn more about Datalogic devices that help provide a safer work environment visit: www.datalogic.com.



About Datalogic

Datalogic is a global technology leader in the automatic data capture and process automation markets. We offer manufacturers in the automotive industry identification devices, vision systems and sensors. Our technology detects object presence, safeguards workers with light curtains, assures product quality with vision sensors, and identifies items using laser marking. Process and product traceability are assured by fixed industrial and handheld bar code readers, scanners, and mobile computers that track items through the manufacturing process and on to distribution.

For more information visit www.datalogic.com.

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