XLR Technology Powers Manufacturing Productivity

XLR Technology increases efficiency; workers collect data at very long range with incredibly fast accurate optics designed to handle major changes in perspective on codes up to 20m away.

The explosion in e-commerce, fulfillment services, and logistics is affecting the manufacturing sector; manufacturers everywhere are adding capacity, often vertically. Workers need tools to help them do more and provide better access to products that are out of arm's reach. Handheld computers need to offer not only short, medium, and long-range scanning capabilities but also ease-of-use features that make long-range scans as fast and dependable as short-range scans. These features give manufacturing workers the ability to quickly, accurately, and verifiably scan items within reach while also reading codes 10 or 20 meters overhead, despite the uncertainties caused by distance and perspective distortion.

According to Digital Commerce 360, consumers spent $861.12 billion online with U.S. merchants in 2020, up an incredible 44% over the previous year. That is the highest annual U.S. e-commerce growth in at least two decades. It nearly triples the 15.1% jump in 2019. Experts anticipate that e-commerce will continue to grow in 2021 reaching upwards of $930 billion and exceeding $1 trillion in 2022.

E-commerce acceleration

E-commerce and online shopping were already major trends driving retail before the global pandemic, but since COVID-19, it's clear that the world is experiencing a major behavioral change when it comes to shopping, goods fulfillment, and supply chains. That trend is not likely to change any time soon. According to *Digital Commerce 360*, consumers spent $861.12 billion online with U.S. merchants in 2020, up an incredible 44% over the previous year. That is the highest annual U.S. e-commerce growth in at least two decades. It nearly triples the 15.1% jump in 2019. Experts anticipate that e-commerce will continue to grow in 2021 reaching upwards of $930 billion and exceeding $1 trillion in 2022.[1]

[1]Adobe Digital Economy Index: Covid-19 Report March 15, 2021

Regardless of what type of product is being produced, today's manufacturing workers need a handheld computer that will help them meet and exceed shift quotas driving organizational productivity and profit. XLR (extra-long range) scanners are a powerful part of that productivity solution because they can help worker scan objects at arm's length while also searching upper shelves for hard- to-reach items. The same device allows a forklift driver to scan a code on a pick sheet, then verify the presence of the item by scanning a pallet that lies several meters on a rack.

Hands to overheads: XLR does it all

While most handheld barcode scanners are perfectly capable of scanning any code within .05 meter, the number of available solutions begins to dwindle as distances extend to mid-range, or between 5 and 10 meters.

Skorpio X5 XLR mobile computer projects a bright red field that is clearly visible in daylight conditions to show the operator which code is being scanned. Operators can confidently scan objects up to 20 meters above their heads without worrying about scanning a random code somewhere in between.

Forklift and other equipment operators are among the most common users of mobile computers. To avoid dismounting the forklift, operators typically read barcodes on pallets and cartons that are several meters away. They need a powerful scan system that can penetrate dirty plastic windscreens and plastic shrink-wrap alike. The high-quality optical scan engines and powerful illumination found in the Datalogic Skorpio™ X5 XLR has the power to overcome plastic barriers, providing fast scans every time, allowing enterprises to keep up with escalating demand.

Forklift operators read barcodes several meters away requiring scan engines and illumination to overcome plastic barriers and deliver fast scans every time.

Better aiming, faster scanning

One way that Datalogic XLR handheld scanners are helping customers scan objects at 1, 5, 10, and even 20 meters is through better aiming and the ability to handle major changes in perspective — basically, the ability to see the forest and the trees at the same time.

The Skorpio X5 XLR mobile computer projects a bright red field that is clearly visible in daylight conditions to show the operator which code is being scanned. Using this aiming mechanism, operators can confidently scan objects up to 20 meters above their heads without worrying about scanning a random code somewhere in between.

This mobile computer is designed to handle major changes in perspective. Imagine looking at a barcode 20 meters overhead from below the object. The individual lines and dots that form a 100-mil Data Matrix code would be nearly indecipherable to the naked eye, but the Skorpio X5 XLR mobile computer can clearly read each feature, despite significant changes in perspective. Users regularly comment on the responsiveness of the device as codes are read amazingly fast at long distances.

Bring the warehouse to your team with the power of Skorpio X5 XLR technology. Request a no-cost evaluation unit today.

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www.datalogic.com

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