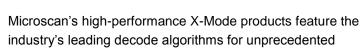


FOR IMMEDIATE RELEASE:

Microscan Releases X-Mode 4.0 Decoding Algorithms for New MicroHAWK Barcode Readers

RENTON, WA, December 3, 2015 – Microscan, a global manufacturer and pioneer of auto ID solutions from the world's first laser diode barcode scanner to the Data Matrix symbol, announces the availability of improved X-Mode 4.0 decoding algorithms with its newly-released MicroHAWK barcode reader platform.





symbol location, analysis, and reconstruction right out of the box. Engineered to outperform competitive barcode readers for the most difficult codes and challenging substrate materials, X-Mode algorithms decode any symbol (1D linear, 2D, or direct part mark) regardless of condition. Advanced pixel analysis and logic render damaged, distorted, poorly-printed, or skewed symbols readable using image processing to prevent data loss. For codes marked directly on parts, like dot peen marks on highly-reflective metal surfaces or inkjet codes printed on cardboard, X-Mode automatically enhances symbol appearance to gather critical symbol data and reliably interpret codes in both static and dynamic applications. X-Mode uniquely offers omnidirectional decoding of any symbol, greatly increasing the range of mounting angles that can be used to position a barcode reader within a piece of equipment or on a manufacturing line. When symbol quality, mark contrast, substrate integrity, or read direction cannot be predicted, X-Mode algorithms are able to safeguard the efficiency of operations and reliably read every code.

With the release of its MicroHAWK platform, including three new barcode imagers and the WebLink browser-based setup interface, Microscan has re-engineered and improved X-Mode functionality in X-Mode 4.0. This update adds new capabilities for solving specific decoding issues gathered through field data from customer barcode reading applications. With poor print consistency and permanence of inkjet on labels a persistent obstacle, X-Mode 4.0 now addresses incomplete and obscured Code 39 and Code 128 linear symbols through a new Damaged Mode. Damaged Mode fills in white gaps in a symbol's bar elements caused by low ink or damage, thereby rendering complete, connected bars for decoding. Damaged Mode also accommodates high-density, out-of-focus symbols for camera-based imagers that have inadequate resolution, or are mounted at variable or improper distances for the target code type.

In addition to Damaged Mode, X-Mode 4.0 includes new Train and Optimize modes available as tools in the WebLink User Interface. From WebLink, users can click on the Train button to command a MicroHAWK barcode reader to search for the ideal combination of decoding parameters for the target symbol. Train Mode accesses an image characterization library of known code types and their optimal

decoding parameters to apply parameters from similar symbols to the target symbol to boost reading power. Train Mode also enhances decoding for Data Matrix symbols with limited quiet zone (the required blank space surrounding the code) and adds support for challenging QR Codes like those marked or printed on noisy backgrounds. The Optimize button in WebLink is used to increase decode speeds by limiting processes run by the barcode reader to only those processes needed to read the target symbol. Other general improvements include enhanced decoding for direct part marks with obscured or incomplete code edges, increased tolerance of lighting variations (including speckled light reflected inside the symbol) for Data Matrix symbols, and improved detection of the clock or L-pattern of rotated or obscured Data Matrix symbols. With a 5-megapixel QSXGA sensor option available for all new MicroHAWK barcode reader models, X-Mode 4.0 also offers support for 5 MP barcode imaging.

Microscan leads the industry for the highest-performance barcode reading and continues to refine its decoding software to address new customer challenges. Equipped with X-Mode 4.0, MicroHAWK and WebLink are ranked the most capable decoding products against competitive barcode readers. Users can request a demo of a new MicroHAWK barcode reader featuring X-Mode 4.0 algorithms at www.microscan.com/microhawk. For more information about Microscan, visit www.microscan.com/microscan.com/microscan.com/.

About Microscan

Microscan is a global leader in barcode reading, machine vision, and verification technology serving a wide range of automation and OEM applications. Founded in 1982, Microscan has a strong history of technology innovation that includes the invention of the first laser diode barcode scanner and the 2D symbology, Data Matrix. Today, Microscan remains a leader in automatic identification and inspection with extensive solutions ranging from barcode reading, tracking, and traceability up to complex machine vision measurement, guidance, code verification, and print quality grading.

As an ISO 9001:2008 certified company recognized for quality leadership in the U.S., Microscan is known and trusted by customers worldwide as a provider of quality, high precision products. Microscan is a Spectris company.

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