

>MATRIX GUI



DL.CODE

Configuration & Performance  
Optimization Software

**In-Position**  
Technologies

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**DATALOGIC**  
THE VISION IS YOURS

# INDUSTRIES

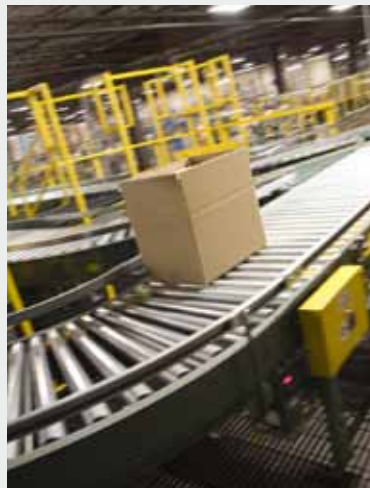
## MANUFACTURING



DL.CODE™ eliminates the complexity of automated identification processes through a graphically enhanced user interface. Powerful Matrix N™ 2D imagers can be setup in a few minutes using intuitive steps and tools. Improved and reliable performance of the system is achieved through new software algorithms which are immune to lighting and reflection effects as well as object-to-object variations.

- Easy and fast reader setup in Direct Part Marked (DPM) applications with automated optimization of the decoding configuration
- Multiple digital pre-processing filters in a single image
- Image saving for selectable reading cases
- Embedded live image display and parameter adjustments without accessing the setup software

## LOGISTICS



DL.CODE increases the potential for track, trace, and sortation applications with new critical capabilities. 2D PackTrack delivers real-time tracking of multiple objects within the same reading area. On-board image saving with intuitive controls eliminates additional setup, servers, or monitoring software.

- Automated multiple code configurations, 1D and 2D in a same image frame
- Flexible logic combination and message definition
- PackTrack configuration for high speed sortation with variable object dimension and object gaps
- Flexible 'NO READ' image saving

## MATRIX N™ LINE

MATRIX N LINE is a new product line equipped with state-of-the-art software:

### EASY TO USE

Eliminate training costs with an intuitive graphical user interface. With features like smart parameter display, linked parameter help information, and graphical code setups, anyone can program the Matrix N imagers.

### FAST & RELIABLE CONFIGURATION

Quickly and accurately configure devices using drag and drop message formatting, parameter display optimization, and immediate visual feedback on parameter changes.

### HIGH PERFORMANCE

Maximize the speed and performance of Matrix N devices with automated auto learn, independent code optimizations, and part variance effects.

### ONLINE MONITORING

Increase uptime through a real time view of the process while the Matrix N is still working in the production line. Instantly diagnose process issues for faster more accurate problem resolution.



# EASY TO USE

## FLEXIBLE

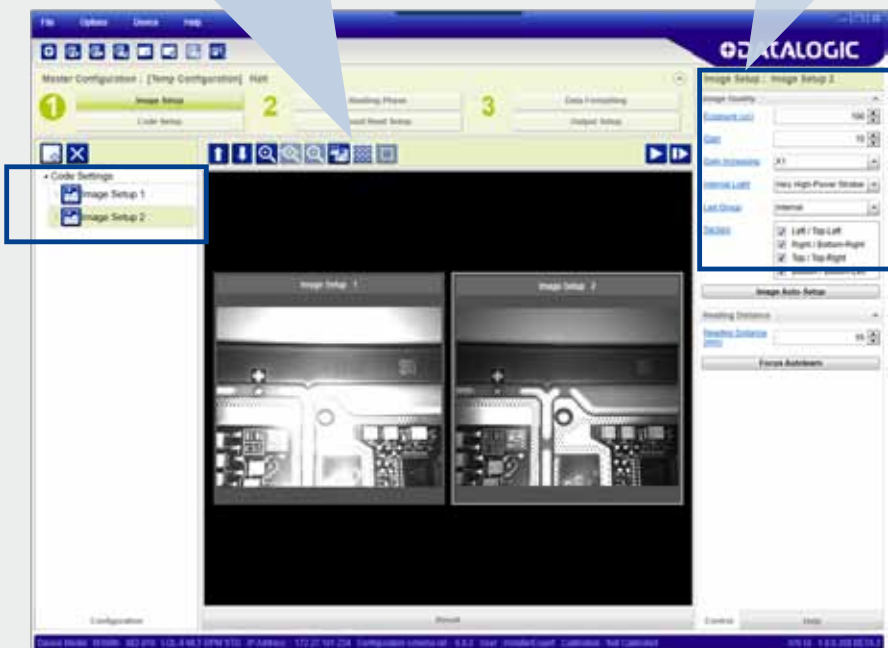
Different image acquisition settings improve reading performance and accommodate multiple code types. Up to 10 independent image setups are displayed.

## SMART PARAMETER DISPLAY

Only the relevant parameters for the active configuration step are displayed.

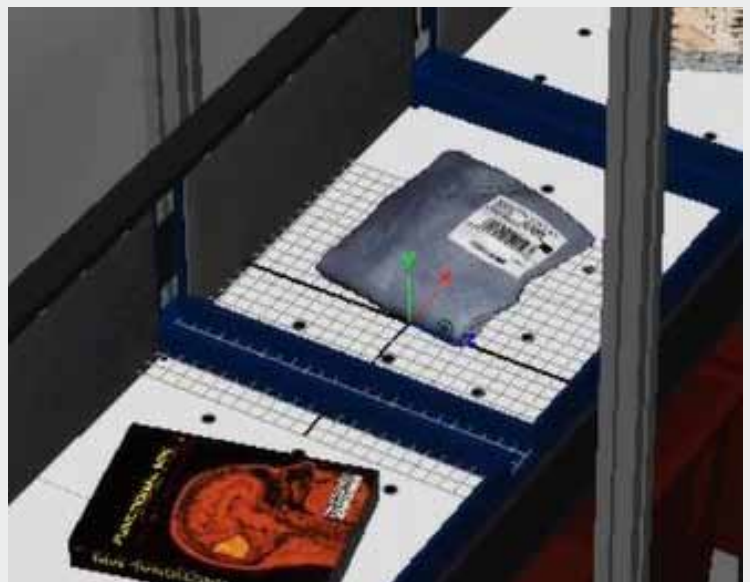
## EASILY ACCESSIBLE HELP INFORMATION

Every parameter is linked with the on-line help session. Directly access help information by clicking on the parameter name in configuration view. No searching is required.

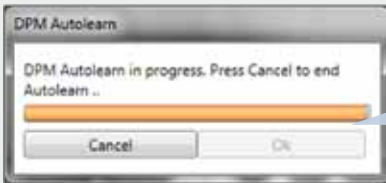


## INCREASED THROUGHPUT FOR CRITICAL SORTATION OR TRACK AND TRACE APPLICATIONS

MATRIX N 300™ and MATRIX N 410™ utilize PackTrack, a powerful embedded tracking solution for single or multisided imager arrays. PackTrack solves sorting applications with small gaps between objects as well as delivering superior performance on damaged or plastic covered bar codes. This unique software captures codes multiple times during transit resulting in redundant captures of the bar code.



# HIGH PERFORMANCE



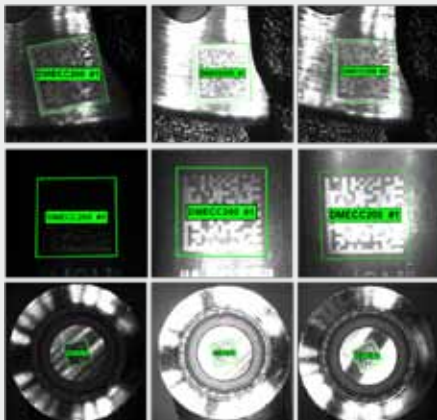
- **CODE AUTOLEARN: MAXIMIZING PERFORMANCE**
- Automatically determine the code in the reading area, or region of interest, and optimize the decoding setup to maximize reading speed and performance.



- **MULTIPLE CODE OPTIMIZATIONS**
- Multiple decoding regions improve reading speed with multiple code applications or independent codes with different features.



- **ELIMINATE PART VARIANCE EFFECTS**
- The decode algorithm determines the optimal decoding setup using multiple images representing the application variability such as code quality or different parts.



- **RELIABLE BEST IN CLASS PERFORMANCE ON DPM AND DAMAGED CODES**
- The new decode algorithms provide superior reading performance on dot peen or etched 1D or 2D codes on the most challenging materials. Damaged, torn, bent, or partially occluded codes can be processed, keeping operations running at optimum efficiencies.



# FAST & RELIABLE CONFIGURATION



## GRAPHICAL SETUP DISPLAY

- Graphical configuration feedback improves the speed and ease of use for setups. Users no longer need to inspect every parameter value.

## DRAG AND DROP FOR DATA MESSAGE AND FORMAT CONFIGURATIONS

Drag and drop message and format configurations using the graphical approach to data formatting. The result is an easy and reliable operation.



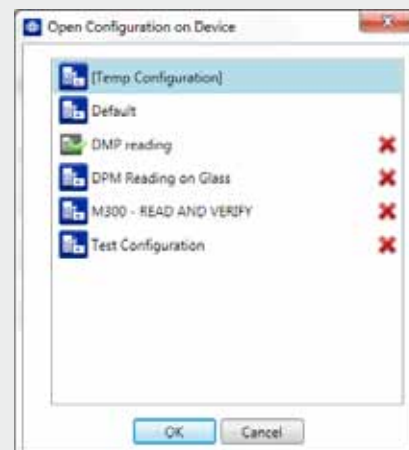
## FAST AND RELIABLE VERIFICATION OF PARAMETER CHANGES

Parameter changes are instantly verified through the reader output on the console panel. A fast, easy, and reliable way to validate the setup.



## CONFIGURATION MANAGEMENT IMPROVES EFFICIENCY AND PRECISION

Multiple configurations can be stored on the Matrix N devices, enabling on-the-fly changes for production batches. Machine builders can standardize on a global setup dynamically selecting an approved configuration for specific machines.



# ONLINE MONITORING

## INCREASE UPTIME

With the reader monitoring tool you can connect a device and monitor its production line operation, without disconnecting it from the line controller.

The monitoring feature offers a perfect diagnostic tool for line operators. Imager and production line operation are validated by images or code information. Messages to the host system are mirrored in the console area and can be monitored in-line offering additional diagnostics.



## NO MONITORING DOWNTIME

The monitoring tool offers the possibility to adjust parameters in-line, without disconnecting the reader from the host communication or accessing the setup area.

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