Optimize industry processes

Facility managers face a wide variety of challenges in making on-site process optimization a top priority. The Cognex Explorer™ Real Time Monitoring (RTM) system incorporates world-class Cognex® vision technology that is specifically designed to help drive process improvement. With a scalable architecture and browser based interface for viewing DataMan® barcode reader performance statistics, Cognex Explorer RTM empowers facility managers with data that can assist in removing system defects and improving throughput and machine efficiency.

Increase read rates and throughput

Cognex Explorer RTM provides a unique data-driven approach for pinpointing deficiencies in barcode applications.

- Browser based trending of DataMan read rate performance

- Automatic package/part defect classification with Cognex vision technology

- Scalable architecture and data synchronization

When a process error results on a package with an unread barcode, the image captured by the barcode reader is transferred to Cognex Explorer RTM.

Equipped with powerful Cognex vision technology, RTM automatically evaluates each image and categorizes them into defect groups such as "no label present," "poorly printed labels," or "creased label." Categorized images are stored in a database and accessible for future viewing through any device with a web browser. Having easy access to this data makes it possible for facility managers to determine where process deficiencies exist.

Performance overview

Cognex Explorer RTM provides a detailed read-rate performance summary of all configured DataMan barcode readers on a network. A dashboard view displays an informative snapshot of the facility's overall read performance and links are provided for accessing detailed performance results over any selectable timeframe. The dashboard overview allows users to drill down and more deeply analyze the data.

Browser based interface

Cognex Explorer RTM connects to a network of DataMan readers and regularly pulls read rate information along with images of the packages and labels. With RTM, it is easy to access system data. It uses a browser based interface for displaying and trending data, making it available wherever it is needed.

Scalability and Flexibility

Networking DataMan barcode readers with Cognex Explorer RTM throughout a production facility enables managers to capture and analyze valuable data that can be used to identify the root causes of process errors.

A single RTM unit can collect statistics from a large network of over one hundred DataMan barcode readers. For image collection and analysis, the processing load can be distributed and synchronized across multiple RTM units. Data for the entire facility is accessible from a single web-address. Cognex Explorer RTM is specifically designed to leverage DataMan's barcode reading capabilities in industries such as:

- Logistics

- Automotive

- Pharmaceutical

- Food and beverage

Optimized to meet a variety of challenging image analysis applications, Cognex Explorer RTM is available in three models. The core static and image collection software is the same across all models. Advanced vision technology sofware licenses are available to enhance RTM capabilities.

	Cognex Explorer RTM	Cognex Explorer RTM with VisionPro® Base	Cognex Explorer RTM with VisionPro Max
DataMan Statistic Collection	x	x	x
Image Collection	x	x	x
Image Archiving	x	x	x
VisionPro Image Analysis Tools	Not Included	VisionPro Base	VisionPro Max
Applications	Packages with unread barcodes	Basic presence-absence contrast-based defect	Advanced inspections and label quality assessment

Specifications	
Operating System	Windows® 8.1 Embedded Industry Pro
Processor	Intel® Celeron® 2.2GHZ 1020E (Upgradable to Intel Core i3/i5/i7)
Chassis & Power Supply	Industrial fanless PC: 24 Volt, 75Watt
Memory	4GB DDR3 16000MHZ
Dimensions	248mm x 142mm x 185mm
Hard Drive	750GB SATA HardDrive at 7200RPM speed
Monitor Connection	VGA
USB 2.0 Ports	6
Gigabit Ethernet Ports	2
Serial Ports	4
Software Security USB Dongle	Varies by part number

Features	Cognex Explorer RTM with VisionPro Base	Cognex Explorer RTM with VisionPro Max
QuickBuild™ Application Development	x	x
Cognex Frame Grabber Acquisition	x	x
FireWire® and GigE Acquisition	x	x
3rd Party Image Acquisition	x	x
Image Display	x	x
Image processing Library	x	x
Geometry Finding and Gauging Tools	x	x
Caliper	x	x
Blob	x	x
ID Tools (Barcode, 2DSymbol, IDTool)		x
OCV		x
OCRMax™		x
Multithread		x
Color Tools		x
CNLSearch		x
PatQuick®		x
Validation		x
PatMax®		x
Synthetic PatMax		x
PatInspect®		x
SearchMax™		x
OCVMax™		x
Symbol Verification		x

Companies around the world rely on Cognex vision and ID to optimize quality, drive down costs and control traceability.

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