Systech International®
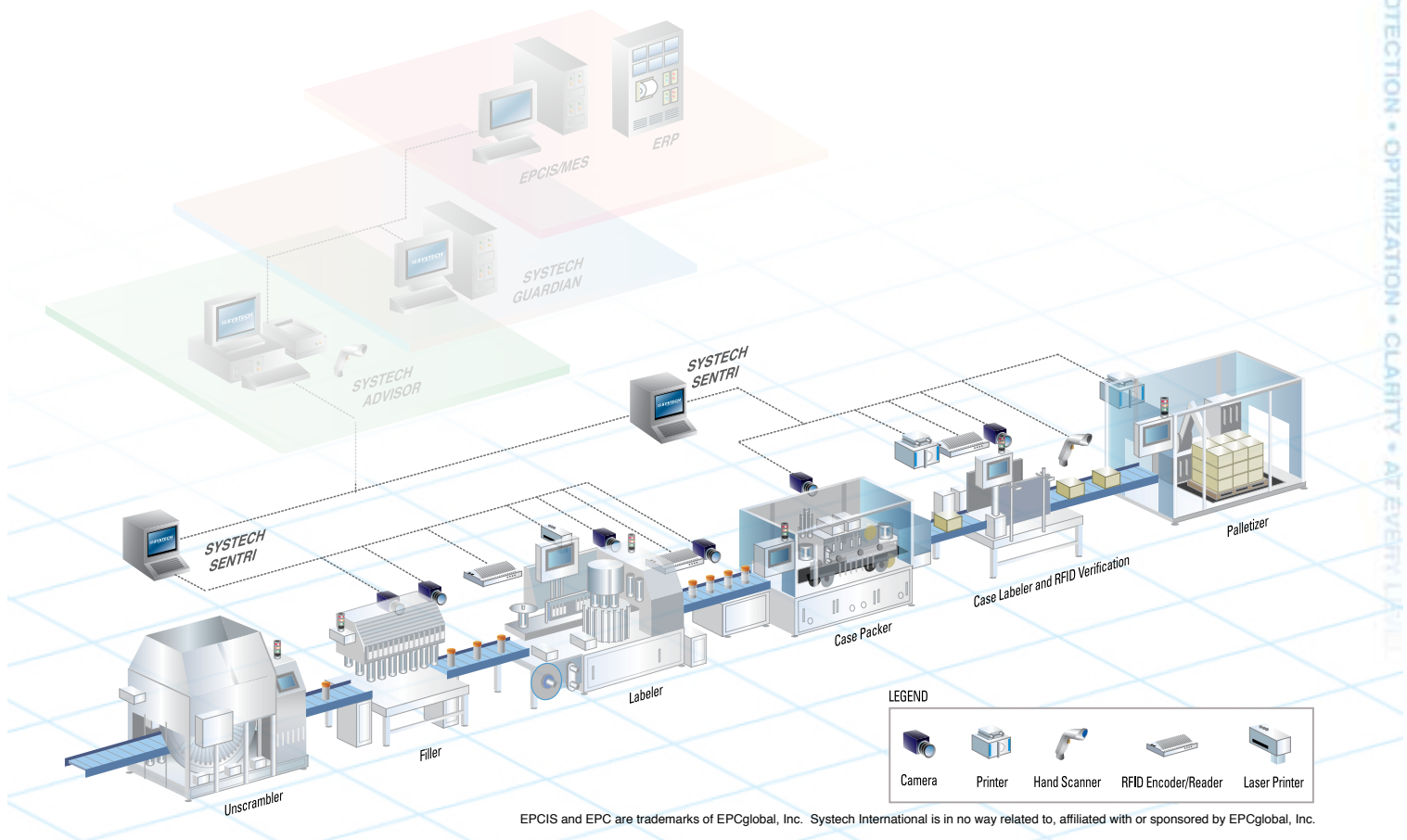Innovating Packaging Execution Systems

Systech Sentri®

Systech Sentri® offers an extensive set of vision tools including Optical Character Verification (OCV), Optical Character Recognition (OCR), Bar Code Reader (BCR) and Print Quality Verification (PQV), which complement general quality inspection functions such as gauging, object presence, shape, defect, count and color.

The Sentri product comes complete with audit logs to provide assurance for procedural control, quality and regulatory compliance. It also conducts device set up, recipe-driven workflow, control of intelligent online devices (printers, bar code scanners, and checkweighers) to ensure integrated quality control and reject station management.

Sentri is the vision product of choice among leading pharmaceutical manufacturers for the following key benefits:

- Ease of deployment and use
- Provides higher accuracy and greater benefit because of its "true" OCV capability
- Exceptional vision inspection speeds
- Works with color and monochrome images in any combination
- State-of-the-art performance for individual character recognition inspections
- One-time font-training library
- Simplifies training and ensures uniformity across all packaging operations since inspections are executed from a single, consistent and intuitive user interface

LEGEND

| Camera | Printer | Hand Scanner | RFID Encoder/Reader | Laser Printer |

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Sentri Product Specifications

- Support an unlimited combination of inspection tools on a single image
- Up to 4 camera acquisition channels in base system
- Supports the most diverse range of cameras on the market
- Expands to control up to 12 camera ports

Sentri Inspections

Optical Character Verification (OCV)
"True OCV" compares characters to stored font libraries to verify each character independently, and accurately. Uses statistical training to incorporate normal variations in text appearance, and inspects text in different orientations.
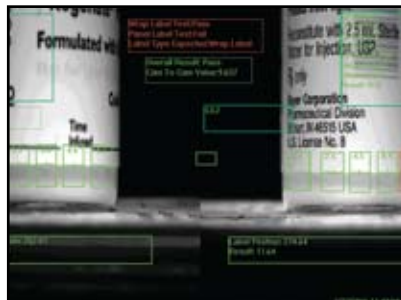

Stop Position and Fill Level
Inspects stopper position and liquid fill level. Utilizes edge detection to locate the stopper position and fill level.

Case Contents
Detects missing cartons in cases upon loading of each layer.

Ultraviolet-Datamatrix
Decoding UV printed data using UV illumination for bright stocking/nude labeling.
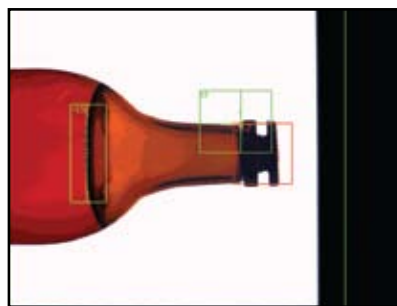

Label Skew
Lighting technique and edge detection tools used with two opposing cameras to ensure accurate application of label.

Vial Count
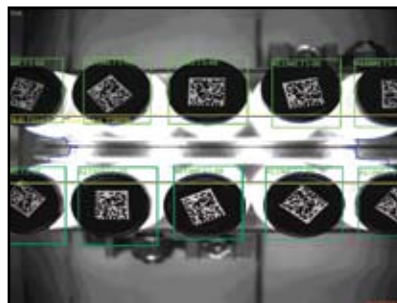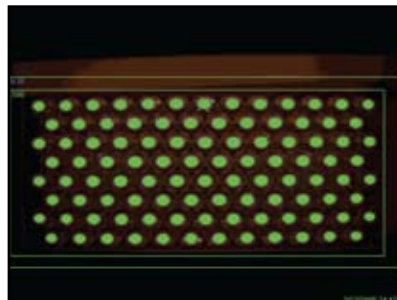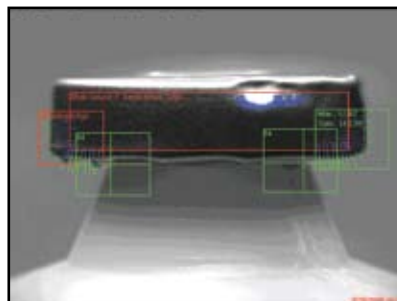Verifies correct quantity and color of vials in cartons and trays.

Print Quality Verification (PQV)
Verifies quality of print by detecting print dropout and excess. Includes inspection of graphics and text.

Vial Crimp
Detects seal defects and crimp deformations to ensure correct sealing of vials.

European Headquarters
Belgium
Pontbeekstraat 2
1702 Groot-Bijgaarden
Tel: +32 2 467 03 30
Fax: +32 2 467 03 31

SYSTECH INTERNATIONAL®

Offices Located in: US • Belgium • UK

US Headquarters
2540 US Highway 130 Suite 128
Cranbury, NJ 08512 USA
Tel: +1.609.395.8400
Toll Free: +1.800.847.7123
Fax: +1.609.395.0064