

A Virtual Conference presented by AIM & RAIN 9 - 10 December 2020







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Platinum



Gold











Silver



SIMPLYRFID







Who, What, Where, When, How

- Labels communicate information
- Labels help ensure items get to their destination











Quiet Zone - Bottom



Quiet Zone – Left & Right Side





Labels Provide Proof - Enable Action

- Proof of identity
- Proof of purchase
- Brand identity
- Certification
- Authentication
- Enable entry
- Capture transaction information













MATHIE & CLAUDINI

BRUT IMPERIAL

Labels Enable Increased Speed

- Reduce handling time
- Assure accuracy
- Capture information rapidly





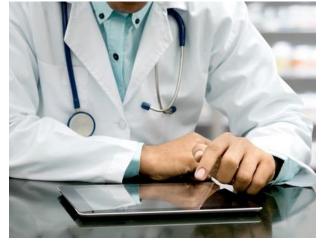






Labels Enhance Security, Safety

- Ensure compliance
- Validate patient information
- Track location
- Control access
- Secure sensitive information in more secure format



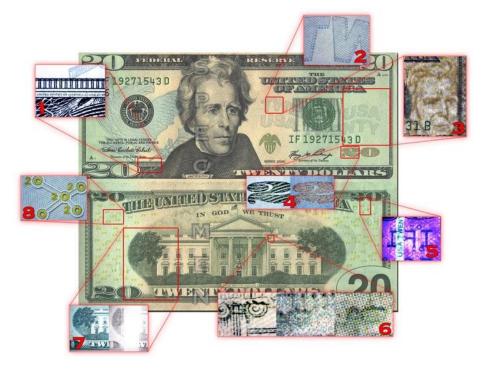






Labels Help Reduce Fraud

- Contain security features to reduce ease of counterfeiting
- Over 50 security features on currency today
- Controlled access label generation software
- Controlled access printing









Are Labels As "Smart" As Possible?



There are about 1.5 million preventable medication errors **each year**, according to a 2006 report from the Institute of Medicine.



CDC estimates that each year roughly 1 in 6
Americans (or 48 million people) gets sick,
128,000 are hospitalized, and 3,000 die of foodborne diseases.



The biopharma industry loses approximately \$35 billion annually as a result of failures in temperature-controlled logistics, according to IQVIA Institute for Human Data Science.



The risk of compromising biopharmaceutical materials in internal shipping and external distribution is relatively high, as these materials are particularly vulnerable to degradation when exposed to various environmental and handling conditions.



A Few Sensor Label Applications



Label Trends

- Increasing regulatory focus
- Reduce/Eliminate paper documents (eIFU)
- Location specific labels (destination and transit)
- Guaranteed unique ID's
- Increasing information density
- Location capabilities
- Sensing capabilities
- Security features
- Action indicators









Globally Harmonized System (GHS)
Unique Device Identification (UDI)
Medical Device Regulations (MDR)
In-Vitro Diagnostic Regulations (IVDR)
Drug Supply Chain Security Act (DSCSA)
Falsified Medicines Directive (FMD)
Food Safety Modernization Act (FSMA)



Data Density



Example of Barcode Information Density

An Agricultural Company



Golden Delicious 20 lb. Carton

GTIN displayed in GS1 DataBar format (10 mil)



(01) 0 08 27763 00177 4

GTIN displayed in GS1 DataMatrix format (10 mil)



(01)00827763001774(30)1

GTIN + Production Date + Batch Number +Best Used By Date in GS1 DataMatrix format (10 mil)



(01)00827763001774(30)1(13)201115(10)DBCR4567ZX(15)210415







Label Inspection

- What?
 - Barcodes (Validate and Verify)
 - RFID (Read)
 - Text (OCR or OCV)
 - Images (Pattern match threshold)
- When?
 - Not too early
 - Not too late





Barcode Verification

Avoid expensive compliance fees by printing labels that are graded and verified for accuracy

The solution for unreadable barcodes is Online Data Verification (ODV)

- Verifies and validates full suite of ID & 2D barcodes with up to 50 barcodes per label
- Prints up to 8 ips with full verification, grading & compliance reporting
- Grades to ISO standards including Quiet Zone & Check Sum errors
- Full label back-up and overstrike*
- Barcode "GPS" dynamically locates barcode, orientation for improved throughput
- The industry's first affordable, fully integrated 2D barcode verifier solution



^{*}Available on the T8000

Quality is a collaborative effort



A Centralized, End-to-End Barcode **Verification Solution for Ease of Compliance**

Many industries are regulated to enforce labeling workflows and ensure that the same process is followed every time a label is generated. Manufacturers require documented proof, from end-to-end, of the labeling and barcode verification process. Until now, companies had to inefficiently maintain multiple systems, requiring significant effort to track and report the results of label printing and barcode verification.

The powerful Printronix Auto ID T8000 ODV-2D powered by TEKLYNX LABEL ARCHIVE gives you full traceability of label design, printing, and storage to support compliance with industry regulations and internal

Every single barcode label that is printed has both its 1D and 2D barcodes

scanned, verified, graded, and recorded in the LABEL ARCHIVE database.

The Printronix Auto ID ODV-2D and TEKLYNX LABEL ARCHIVE integrated

solution centralizes label changes, print history, and barcode verification

grades. This solution is ideal for regulated industries and any industry

with the need for barcodes and label tracking, such as medical device

manufacturers and manufacturers that ship products to third party

Any labels with barcodes that fall below the passing threshold are automatically overstruck and re-printed. Rest easy knowing that 100% of





How It Works

packers or distributors.

vour barcode labels are error-free.











GRADE

- · Comply with regulatory and industry standards · Establish security access
- · Ensure maximum traceability with Printronix Auto ID ODV-2D and LABEL ARCHIVE
- · Control your labeling process
- Integrated LABEL ARCHIVE & Printronix Auto ID T8000 ODV-

· Print only approved labels



Contact us today to learn more about the Printronix Auto ID ODV-2D and TEKLYNX LABEL ARCHIVE complete barcode verification solution at sales@printronixautoid.com

TEKLYNX teklynx.com



TSC PRINTRONIX

Benefits:

- · Regulatory compliance
- · Quality assurance and approval
- · Establish permissions to control access
- · Keep record of changes, comments, revisions, and print history for every label
- · A single solution







hteWision Global's machine vision systems and solutions allow manufacturers to adhere to the ever-increasing levels of industry compliance, improving productivity Δ yield, giving them a competitive advantage in their manufacturing processes. bleVision Stebal's expensis, spans over a decade within the Food & Beverage, Healthcare & Pharmaceutical, Medical Device & His Sciences, Defence and Monthin Building market sectors. Customers truth and rely on Intervision's competence, expensise and innovation but automated machine

Perceptor PTXL
Compliant Label and Print Verification Solution

Introduction to Printronix AutoID

Princoix Auto ID is a global leader in fleemal printing and borcode validation solution for enterprise level componies. Utilizing their establise Printoix System Architecture, first printes are known for their case of sus, Refulling, and disturbilly as well and ordinoised features, such as ODV borcode validation, RFD and resolute pitter management tools. Their products can be found in all flexing global enterprises around five world.

Printerix Auto ID is part of the TSC Auto ID Technology family and is one of the top five thermal printer manufactures in the world with over 40 years' experience in the design, development, and manufacturing of high epiricamans thermal label printers. Designed in the USA and built in their manufacturing facilities in Taiwan and China they are a time global backer in thermal print technology.

Printing and overprinting labels 'reel to reel' whilst still meeting all process controls including 21 CFR, GS1 validation and ISO verification is challenging

With a Printranix T8300 ODV-20 series printer and InterVision Global's industry leading Receptor PTXL software you now have an 'off the shell' fully compliant thermal transfer and direct transfer 4" printer that is capable of printing high quality industry compliant labels at up to 5,400 per hour.

- Direct thermal and thermal transfer printing Pullback print overstrike and reprint feature
- No manual data input 'Closed loop' data process
- Secure data storage
- Serial no. duplication and validity ched 1D Barcode verification to ISO 15416 2D Data Matrix varification to ISO15415
- OCR/OCV of human readable text with quality grading
- Compliant to 21CFR with User Access Control, Audit Trail and Batch
- Fully integrated with serialisation software system
- Label consumption and stock management

Perceptor PTXL is a software application that is installed on a networked Windows PC that is connected to a Printronic 18300 series printer with the ODV-2D optical imaging head and the PC is via Ehrenet. Label printing is via either local USB or LAN Ethernet Label design and printing is managed using products such as BarTender, Nicelabel or other established brands.

solution requires no manual input of data by the operator. When integrated with Serialisation Software and the Printronix TB300 series printer, this solution provides a secure 'closed loop' system that manages and checks serial numbers, human readable lexit, verifies machine readable codes and provides an end of batch reconciliation report with statistics, label consumption and

Building on the well-known pedigree and quality of the Printonix product line this system fully benefits from their urique print overstalls feature which polar, oversities and reports on splisture. Urique in its offering this is the fait fully integrated compliant sediclation print quality verification system that can print and process up to 5.4010 belts per bour!

Using Serialisation software the Operator generates an order and sends the Print Job to the printer, Print to printing Perceptor PTXL will receive via secure connection the first ID and data clarge with the Jobet template ID, in process Perceptor PTXL will pass back all successfully printed serial numbers along with the OCR text grade and code verification grades

Perceptor PTXL verifies and validates the correctness of labels. Each and every

to be performed on which area of the label. If an inspection fails then the label is deemed a reject and the printer pulls the label back and destroys it by

there are no unacceptable blemishes on the label.

76358425

itch 12345 100215 1568825057

Examples of software leveraging validation capabilities of printer hardware



Labels Summary: ("More")

- More data
- More function
- More regulations
- More collaboration/connectivity
- More security
- Less acceptance of unreadable label







Thank You

TSC Auto ID tscprinters.com | **Printronix Auto ID** printronixautoid.com

Thank you for Attending



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Presentations will be available on-line soon. You will receive an email with a link when they are available.