Healthcare Solutions

OKI®

Fast, efficient and reliable solutions to enhance patient safety and ensure regulatory compliance

Fast, efficient and reliable integrated technologies to enhance patient safety and improve workflow

OKI Data Americas and technology partner DataRay, Inc., provide healthcare organizations, hospitals, laboratories, pharmacies and physician practices with comprehensive solutions to help them overcome key challenges:

- Enhancing patient safety
- Improving the quality of patient care
- Complying with regulatory requirements

These solutions—which combine the DataRay Thermal Healthcare Interface with Thermal Label Printers from OKI—also support fast and easy integration into an Electronic Health Record system (EHR) platform, thus improving the overall efficiency of operations and ensuring the most productive use of technology.

Positive Patient ID Solutions

Use OKI® solutions to instantly print barcoded patient ID wristbands and labels from any EHR without extra software or assistance from the IT department. They also produce the custom print formatting and 2D barcodes required for Barcode Medication Administration (BCMA) pharmacy medication and IV labels, and lab specimen labels.

MedBand 2-D Barcode Wristband Solution

A preparatory step to Barcoded Medication Administration:

- Scan any part of the band without touching or disturbing the patient
- Prevents the need to search for the barcode on the wristband
- Resolves curved surface problems when barcode scanning
- Scanning advantages of RFID without the expense of RFID
- Accommodates both linear and graphical barcodes
- Meets FDA requirement for two patient specific identifiers
- In support of Stage II EHR Meaningful Use (MU) requirements for Barcode Medication Administration (BCMA)
- System for Highest Barcode first read rate
- Prevents workarounds and inadvertent reading of glucometer barcodes
- Provides bedside printing of specimen labels

Embosser Replacement

OKI's Positive Patient ID solutions can replace problematic and outdated embosser systems for enhanced patient safety:

Old Embosser System	New OKI Solution
• Outdated, inefficient process of patient identification	• Print 4-across labels to reduce waste
• Imprinted text is illegible	• Seamless "Plug and Play" integration with any healthcare information system
• Increased possibility of patient identification errors	• Positive Patient Identification enhances patient safety
• Interrupted workflow while nurses wait for replacement cards to be made	• Barcode system for migration to BCMA
• No barcode for auto ID	• Crisp clear barcodes with high read rates
• Manpower time and costs to replace imprinter rollers	• Enhanced workflow efficiency
• Patient safety issues	• Direct thermal (no ribbon) meets HIPAA requirements
	• Quick return on investment

Benefits to Nursing, Admitting and ER

For barcoded patient wristbands and chart labels:

- Barcoded wristbands provide two patient specific identifiers (JCAHO National Patient Safety Goals)
- 4-across thermal label design provides far more convenience and ease of use than embosser equipment, and is more economical than laser labels
- Allows nurses to scan wristbands and quickly pull up patient info from the EHR
- Prevents workarounds and inadvertent reading of glucometer barcodes

Pharmacy Safety Solutions for hospital, outpatient, and clinic pharmacies

- Thermal printers are smaller, quieter, more reliable, have better print quality, and are easier to use than traditional dot matrix
- DataRay Small Advanced Network Interface attaches easily to each OKI printer
- Network interface provides seamless integration with Pharmacy/Hospital Systems
- Emulation accounts for size of thermal labels to prevent loss of print data
- Allows printing with larger and easier-to-read scalable fonts, and custom label design – including ISMP-recommended formatting
- Use to print required FDA 'Side Effects Statement' on prescription medication labels

Thermal Barcode Printing Solution

OKI offers a comprehensive plug-and-play thermal printer package to prepare sites for Barcode Medication Administration in accordance with Stage II requirements of EHR Meaningful Use (MU).

The combination of thermal printers from OKI and Tall Man Lettering (TML) and MEDMAP from DataRay increases workflow and efficiency. It also provides advanced patient safety features such as identification of infant/child IVs and high risk drug alerts.

TALL MAN Lettering

The confusion of similar drug names is one of the most common causes of medication errors. Tall Man Lettering is designed to:

- Reduce errors by altering the appearance of similar drug names
- Utilize upper and lower case letters to identify one drug from another
- Provide a modifiable list of TML words (including the drug names established by the FDA's Office of Generic Drugs as prone to look-a-like medication errors)

Without TML	With TML
Ephedrine	ePHEDrine
Epinephrine	EPINEPHrine

Using TML as a safety precaution can save pharmacies from filling a prescription incorrectly and delivering the wrong, possibly harmful, drug.

TALL MAN Lettering
Alters the appearance of similar drug names, making them easily distinguishable, to avoid medication errors

Side Effects Statement
Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

MEDMAP Label Reformatting Technology

- No software or server installations required
- Allows "remapping" of label reports, as needed
- Advanced formatting of system data stream for custom label production
- Does not require custom system application programming
- Allows user to change label layout, add barcodes, font selection, fixed data, etc.
- Allows storage of multiple "maps" for different label formats
- Assistance available for development of custom label designs

MEDMAP Label Reformatting

Enables changes to label layout, add barcodes, font selection, fixed data, etc., not possible with dot matrix printers

Standard Output – No Medmap

Thermal Printer With Medmap

Prescription Printing Solution

Providing compliance with Medicaid regulations

The Prescription Printer System has security features that prevent prescriptions from being copied, altered or counterfeited. This advanced script printing solution:

- Facilitates effective implementation of a prescription EHR through direct interface

- Reduces the number of prescription errors caused by illegible handwriting on Rx orders and misunderstood oral prescriptions
- Provides necessary secure script-printing functionality in compliance with DEA, CMS, and specific state requirements for tamper-resistant prescriptions
- Facilitates custom script formatting and specifications

To be considered tamper-resistant, a prescription must have the following three characteristics:

Requirement	Prescription Printing System
One or more industry-recognized features designed to prevent unauthorized copying of a completed or blank prescription form	The word "VOID" appears when the prescription is photocopied or faxed to prevent duplication
One or more industry-recognized features designed to prevent the erasure or modification of information written on the prescription by the prescriber	Background has blue pattern printed on the paper preventing a forger from physically altering or erasing printed information on prescription without being detected
One or more industry-recognized features designed to prevent the use of counterfeit prescription forms	A complete list of the security features is printed on the back of the paper which aids the provider in identifying features and determining authenticity and compliance

Features of OKI Thermal Prescription Printer

- Prints in 3 seconds — no warm up required
- Very small footprint
- Rugged, dependable, and very quiet
- Easy loading — no paper jams
- Handles tamper-resistant security paper

Productivity and Workflow Solutions:
Uninterrupted performance when it's needed most

ODDISY (On Demand Document Identification System)

During registration, patients' charts are barcoded with correct patient IDs; printed labels are then affixed to charts, document folders, wristbands, etc. ODDISY streamlines workflow by allowing healthcare professionals to quickly, easily and automatically duplicate those patient document labels.

The solution consists of DataRay D2 network interface, an OKI® LD610 thermal label printer, and a barcode scanner.
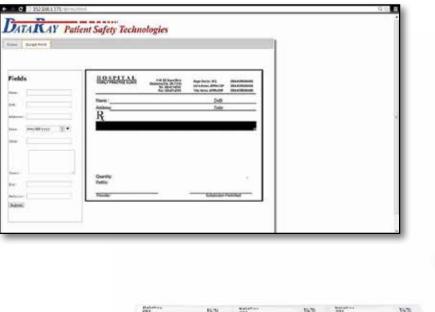
ODDISY highlights:

- Doesn't require any user interface or menu selections on the HIS
- Barcoded labels scanned by staff will generate new labels directly from the OKI thermal printer
- Reduces excess waste resulting from pages of unused laser labels
- In addition to chart documents, patient labels can be used for immediate identification of blood or other samples collected
- Supports the 2D Barcode or Label Duplicator Code (LDC)

Additional applications for ODDISY:

- Imaging System: Auto-identify imaged patient documents with the patient ID barcode
- Medical Records: Scan barcodes on patient charts to assist filing systems
- EHR: Scan barcodes to instantly pull up patient records for accurate medical record documentation. Also, to assist in efficient implementation of EHR in support of ARRA HITECH Act incentives

The ODDISY solution also replaces the need for Embosser cards and Imprinters/Addressographs. No more searching for or replacing outdated embosser cards, having to load cards into imprinters, or trying to decipher illegible imprinted documents.

Downtime Solution

This solution provides hospitals and pharmacies with a contingency plan for times when the IT system or network is down or offline due to maintenance or system failure.

It consists of a DataRay Advanced Printserver and OKI thermal printer that in addition to connecting to the system network, also has a direct connection to the local PC – for true stand-alone functionality.

Downtime Solution highlights:

- Web browser based downtime solution
- Connects directly to local PC, in addition to network
- Prompts staff users for specific patient data
- Fully formatted wristbands and chart labels produced from data directed to printer
- Provides for contingency plans during an emergency, enhancing patient safety
- Process works on demand, even if both the HIS and hospital network are down

OKI®

About OKI Data Americas

OKI Data Americas combines its document printing experience and expertise with the complete line of OKI® products—label and point-of-service printers, digital color and monochrome printers and multifunction products, and dot matrix printers—to deliver solutions for across the organization.. We can help you streamline paper-based processes and become more efficient in bedside point-of-care, forms automation and printer fleet management.

For additional details, please visit www.okidata.com/healthcare

About our technology partner, DataRay, Inc.

DataRay provides turn-key solutions to prepare hospitals and clinics for the implementation of barcode based healthcare applications. DataRay integrates the hardware/software components needed to generate barcoded patient identification wristbands, and barcoded labels for pharmacy IV and Medication, specimen collections, charts and documents, laboratory, as well as specialty product for prescriptions and other applications. DataRay delivers barcode consulting services based on 27 years' experience in providing barcode integration technologies to hospitals nationally. DataRay specializes in integrating thermal printing technologies directly with the native hospital information system.

For additional details, please visit www.datarayusa.com

DATARAY
Patient Safety Technologies

Multimedia Production Platform	Color MFPs	Color Printers	Mono MFPs	Mono Printers	Dot Matrix Printers	Label Printers	POS Printers

For details, please contact your OKI Sales Manager
1.800.OKI.DATA

OKI DATA AMERICAS, INC.
2000 BISHOPS GATE BLVD.
MOUNT LAUREL, NJ 08054-4620
TEL: 800.OKI.DATA (800.654.3282)
FAX: 856.222.5320
WWW.OKIDATA.COM/US

PLEASE NOTE: System integration services are required. On-site installation and training are available.

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