

DS9900 Series for Labs

Improve workflow efficiency with the hybrid presentation imager built for the lab

December 18, 2018





AGENDA

Business
Challenge
and Solution

DS9900
Series
Features

DataCapture
DNA

Zebra
Services

Why Zebra

A Zebra handheld barcode scanner is shown from a low angle, highlighting its ergonomic design. The device features a light grey upper body and a black lower body. A prominent green sensor is visible on the top, and a blue translucent overlay is positioned over the upper part of the scanner. The Zebra logo is clearly visible on the top surface. The background consists of abstract geometric shapes in white, black, and blue.

Business Challenge and Solution

Key Drivers in Laboratory Management

Keep patients safe and avoid rising costs through effective lab management

Enhance productivity and workflow efficiency:

Enable staff to spend more time on analysis

Improve patient safety:

Reduce the risk of misidentifying a sample

Improve traceability on time-sensitive blood samples:

Know when a sample was taken and when it is no longer useable

THE CHALLENGE

General Purpose Imagers Aren't Optimized for Lab Use

Common scanning challenges in the lab...

- Curved barcodes on medication bottles and smaller barcodes on microscope slides are hard to read
- Barcodes on color-coded specimen trays and biopsy cassettes are washed out and hard to read with red illumination
- Barcodes don't provide the level of detail needed to track blood and other specimen samples
- Technicians need to frequently switch between handheld and hands-free scanning

Every barcode that can't be scanned must be entered manually — decreasing productivity and increasing the potential for errors

Every time a technician needs to switch between handheld and presentation scanning, it adds time to the task

DON'T SETTLE FOR LESS.

The level of efficiency
and accuracy
in your lab is
critical to patient
safety and outcomes.



Boost workflow efficiency and accuracy with the
hybrid presentation imager built for the lab... the **DS9900 Series**

DS9900 Series Corded Hybrid Imager for Labs

IMPROVE WORKFLOW EFFICIENCY AND ACCURACY
with the ultimate in performance and design

- Hybrid design built from the ground up for handheld and hands-free scanning
- High density focus optimized to read tiny, dense and curved barcodes found in the lab
- Industry-best scanning performance
- White illumination LEDs to read barcodes on color-coded specimen trays and biopsy cassettes
- Innovative features to boost productivity
- Durable and built for the lab
- Powerful management tools
- Polyphonic tones: library of melodic tones and ability to create custom tones
- RFID model available



The DS9900 Series is ideal in...



LABORATORY

- Blood verification/ phlebotomy
- Blood, tissue and specimen tracking



HEALTHCARE ADMISSIONS

- Patient admission



PHARMACY

- Inventory tracking
- Medication tracking



DS9900 Series Features

Industry-best Performance

WHAT MAKES THE DS9900 SERIES DIFFERENT?

Easily reads tiny, dense, color-coded and curved barcodes

High density focus and white illumination LEDs are optimized for the many types of barcodes found in the lab

Superior performance on damaged and poorly printed barcodes

800 MHz microprocessor, high resolution megapixel sensor, and Zebra's exclusive PRZM Intelligent Imaging technology

Rapid-fire scanning

Advanced illumination system and one of the industry's top first pass read rates — up to 240 in./610 cm per second

Easy presentation scanning

Widest field of view in its class, so workers don't need to focus on positioning the item

Easy switching between modes

Automatically adjusts the scanning range for optimal use whether scanner is in handheld or hands-free mode

Optional UHF RFID model

Combines barcode scanning and RFID for faster and more accurate tracking of blood bags and other RFID-tagged specimens

SCAN IT ALL WITH VIRTUALLY NO EXCEPTIONS

Challenging barcodes
won't slow down your
lab workflow



The DS9900 Series has a high density focus optimized to read smaller and curved barcodes found in the lab and white illumination LEDs to read color-coded labels on specimen trays and biopsy cassettes.

UNPARALLELED PERFORMANCE ON...

- High density barcodes on microscope slides
- Curved barcodes on medicine bottles and blood vials
- Color-coded labels on specimen trays and biopsy cassettes
- Damaged barcodes
- Poorly printed barcodes
- Glossy printed barcodes
- Electronic barcodes on dimly lit displays
- And more...



PUT THE POWER

of RFID to Work in Blood Processing

Track serial numbers, expiration dates and more using the DS9900 Series with RFID

Lightning fast data capture

Workers can read multiple RFID-tagged blood bags in one motion, without line of sight

More efficient tracking of time-sensitive samples

RFID labels can contain details like serial numbers, when the sample was taken and when it is no longer useable

Read UHF RFID tags without modifying your existing applications

Built-in, complimentary software converts RFID EPC data so it appears to the host as a standard barcode

Purpose-built for Hybrid Scanning

Fast, Seamless Switching Between Hands-free and Handheld Modes

**SWITCHING
MODES IS AS
EASY AS PICKING
UP THE SCANNER
— OR SETTING
IT DOWN**



SUPERIOR SWITCHING TECHNOLOGY

Patent-pending capacitive touch sensor for hand detection and accelerometer technology for motion detection

NO MECHANICAL COMPONENTS TO WEAR OUT

Count on fail-proof scanning throughout the scanner's life



TWO SCANNERS IN ONE

Unlike other scanners, the DS9900 Series is purpose built for both handheld and hands-free modes — delivering optimum performance and design, whether technicians present an item or pick up the scanner



IN HANDHELD MODE...

- Scan range is automatically extended to reach items on the table or cart
- Scanner is comfortably weighted and balanced
- Easy to pick up and aim with aim dot



IN HANDS-FREE MODE...

- Scan range is limited to prevent unintentional scanning of nearby items
- Sturdy and sleek one-piece design
- Compact solution fits into space-constrained work areas

Boost Productivity with Zebra Innovations

Zebra-only Innovations

Beyond the barcode, the DS9900 Series is loaded with exclusive features to maximize workflow efficiency in the lab



Capture multiple barcodes with one press of the scan trigger

- With Multi-Code Data Formatting (MDF), the DS9900 Series scans multiple barcodes at once
- Transmit only the barcodes you need, in the order your application expects



Capture full-size documents with Zebra Intelligent Document Capture

- Capture a high-resolution image of prescriptions and patient forms
- Smart software automatically compensates for variations in lighting and squares up the image for optimum clarity



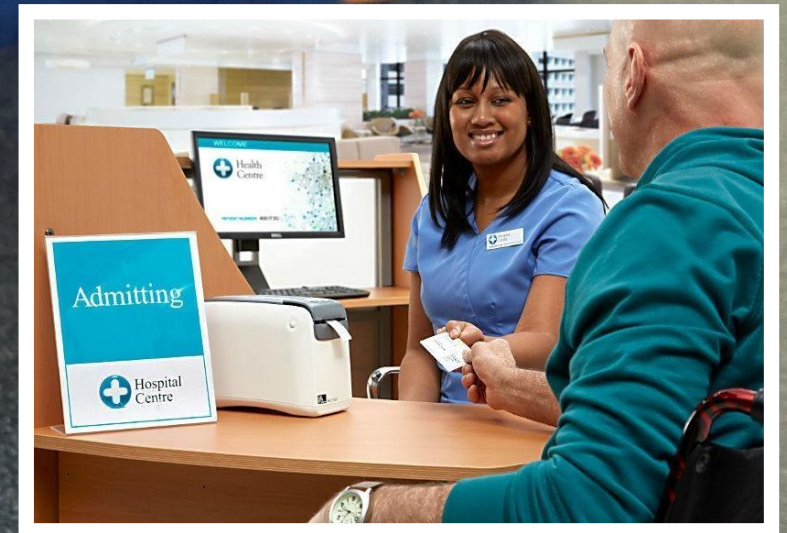
Single out one barcode from many

- With Preferred Symbol, the DS9900 Series can capture and output only the preferred barcode
- Workers no longer have to physically cover nearby barcodes before scanning

OPTIONAL DRIVER'S LICENSE PARSING

Capture and parse information from driver's licenses

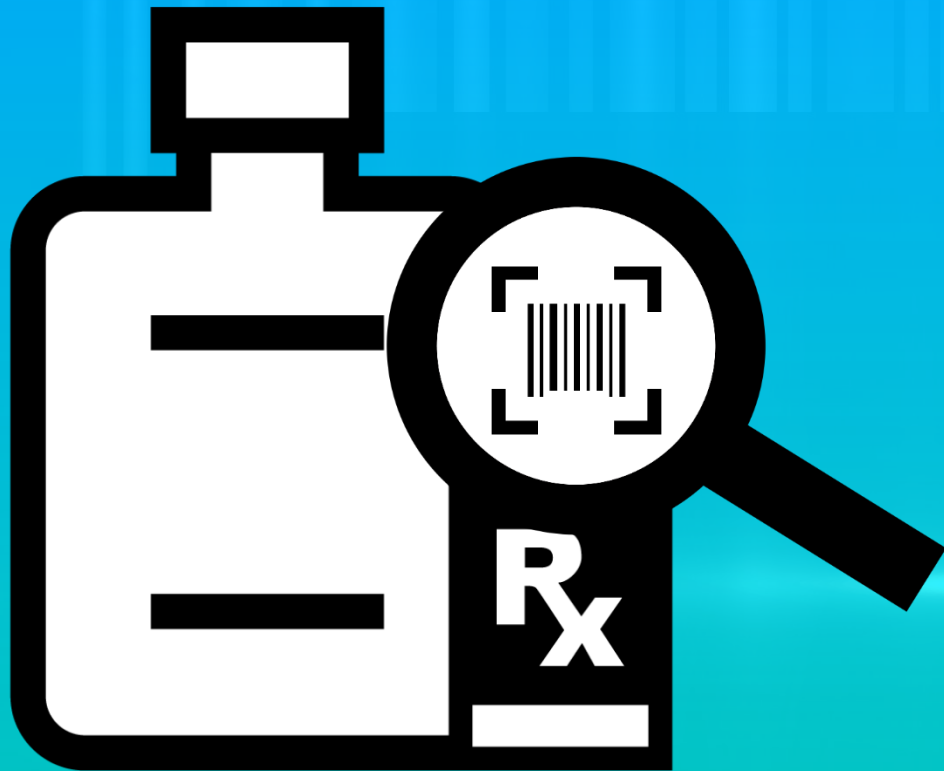
Automatically populate patient admission forms to speed up and reduce errors in the admissions process



* Available in North America only

OPTIMIZE YOUR WORKFLOW

**SCANSPEED ANALYTICS PROVIDES THE VISIBILITY
YOU NEED TO SPEED UP YOUR LAB OPERATION**



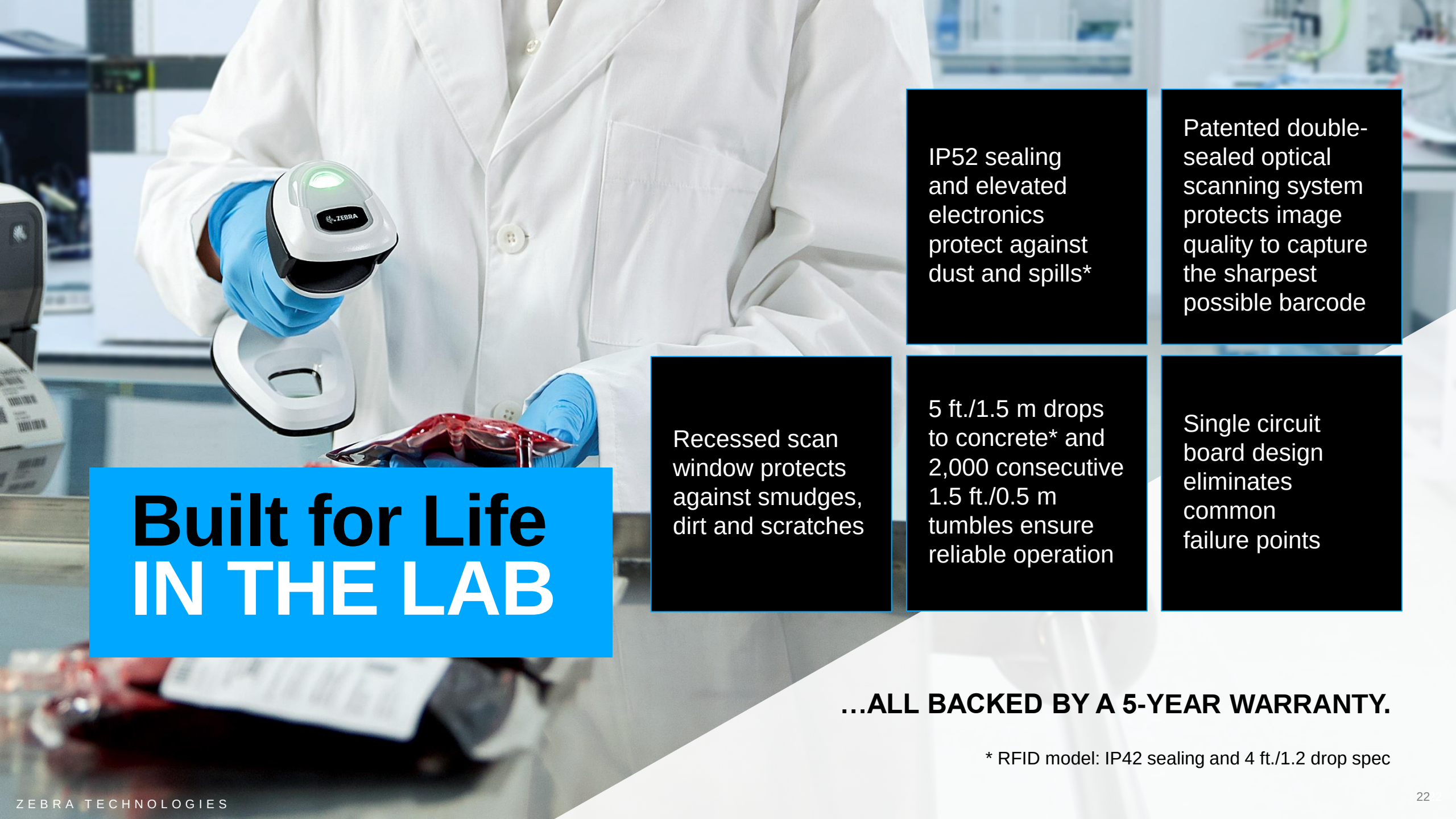
See detailed performance metrics on each barcode that is captured

Identify items and labels that are causing problems in the lab

Show your vendors captured images of troublesome barcodes so they can correct the issue

View how many barcodes are scanned in hands-free vs. handheld mode to better understand how the scanner is utilized

Day in, Day out
Dependability



Built for Life IN THE LAB

Recessed scan window protects against smudges, dirt and scratches

IP52 sealing and elevated electronics protect against dust and spills*

Patented double-sealed optical scanning system protects image quality to capture the sharpest possible barcode

5 ft./1.5 m drops to concrete* and 2,000 consecutive 1.5 ft./0.5 m tumbles ensure reliable operation

Single circuit board design eliminates common failure points

...ALL BACKED BY A 5-YEAR WARRANTY.

* RFID model: IP42 sealing and 4 ft./1.2 drop spec

Industry-preferred Management Tools

Easy to Deploy — Right out of the Box

Superior out-of-the-box experience for quick and easy deployment regardless of your environment and workflow

Pre-configured and ready-to-use right out of the box

Ships with default settings that fit common scanning applications, so you can use your DS9900 Series imager the moment you take it out of the box.

Auto-host detect cables

Just plug the imager into your host and the auto-host detect cables will automatically identify the interface and connect the imager.

97 international keyboards

Deploy anywhere in the world.

Backward compatible with DS9808 cables

Zebra DS9808 cables work with the DS9900 Series — upgrade to the next generation hybrid presentation imager without replacing your cables.

Simplify RFID implementation

Built-in software converts RFID EPC data so it appears to the host as a standard barcode; Zebra's SDK and sample application enable the RFID model to read data from a barcode and write that data to an RFID tag.

Unrivaled Manageability

Managing imagers across your deployment is a lot easier with Zebra's free value-add management tools

Rapid deployment with 123Scan

Easily create configuration barcodes to program your DS9900 Series imagers.

No-cost Scanner Management Service (SMS)

Do you have scanners in different locations? Remotely manage them all with our free SMS app.

SDK for custom application needs

Our free SDKs include documentation, drivers, test utilities and sample source code for Windows, Android, iOS and Linux.



Key TAKEAWAYS

Only device built from the ground up as a hybrid handheld/hands-free scanner

High density focus and white illumination LEDs easily capture tiny, color-coded and dense barcodes

Patent-pending technology for dependable, seamless switching between modes

Widest field of view in its class for can't miss hands-free scanning

One of the industry's top first-pass read rates – up to 240 in./610 cm per second

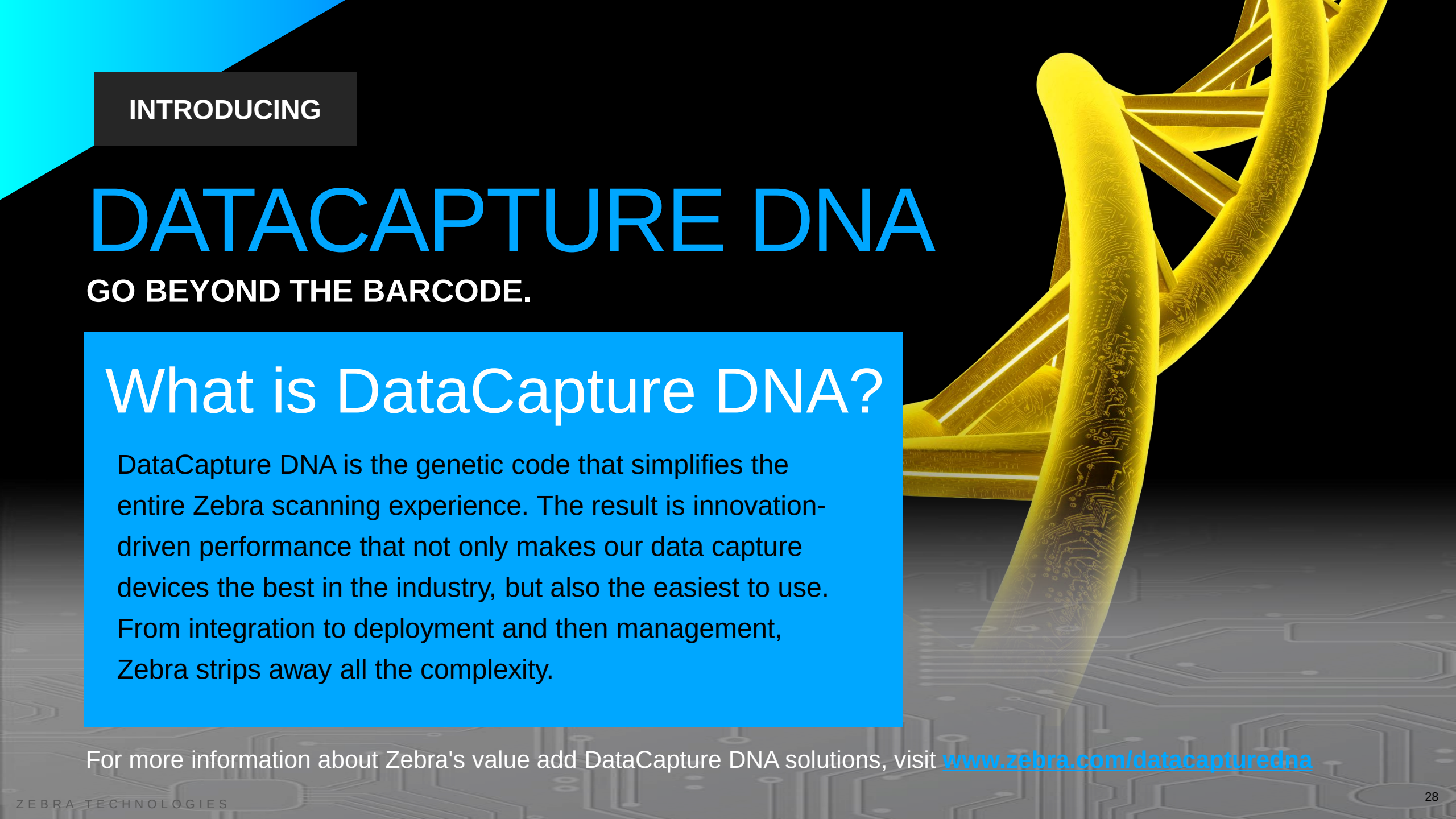
Industry's only ScanSpeed Analytics to identify under-performing barcodes

Only hybrid handheld/hands-free scanner to offer an RFID model

Headache-free management and configuration with 123Scan

DataCapture DNA





INTRODUCING

DATACAPTURE DNA

GO BEYOND THE BARCODE.

What is DataCapture DNA?

DataCapture DNA is the genetic code that simplifies the entire Zebra scanning experience. The result is innovation-driven performance that not only makes our data capture devices the best in the industry, but also the easiest to use. From integration to deployment and then management, Zebra strips away all the complexity.

For more information about Zebra's value add DataCapture DNA solutions, visit www.zebra.com/datacapturedna

THE DATACAPTURE DNA FAMILY

PRODUCTIVITY TOOLS



PRZM Intelligent Imaging

Faster, farther, smarter scanning with built-in intelligence



Multi-Code Data Formatting

Scan multiple barcodes with a single trigger pull



Intelligent Document Capture

Instantly capture and optimize full-size documents, while processing barcodes



Preferred Symbol

Single out a barcode, while excluding the others

DEVELOPMENT TOOLS



Scanner Software Development Kits

Easily develop scanner applications with our SDKs for Windows, Linux, Android and iOS



Scanner Control Application

Pair a scanner to a mobile device to control features like the beeper and display scanned data

MANAGEMENT TOOLS



123Scan Utility

The industry's easiest programming experience with 600,000+ loyal IT users



Remote Management

Choose between Zebra's Scanner Management Service (SMS) – the simple alternative that lowers TCO or Windows Management Instrumentation

VISIBILITY TOOLS



ScanSpeed Analytics

Identify and phase out poor-performing barcodes to speed up processes



Remote Diagnostics

Slash TCO by validating the device is properly configured

Zebra Services





Optional Zebra OneCare Support Services

You count on your scanners to boost accuracy and efficiency in your workflows. Ensure predictable performance, support for critical operations and improved business outcomes while eliminating unbudgeted repair expenses.



ESSENTIAL Basic Assurance

- Comprehensive repair services
- 3-day repair turnaround time (TAT)
- Full access to technical support resources
- Service dashboard
- Access to software updates
- 5-year coverage

SELECT Maximum Protection

Zebra OneCare Essential features, plus:

- Advance device replacement
- 24x7 Level 1 support
- 5-year coverage

BENEFITS

- Enhanced support beyond standard five-year warranty coverage
- Genuine Zebra expertise and parts maximize device uptime – ensure your scanner is back to Zebra's manufacturing specifications
- Outstanding value – eliminates unexpected repair costs with a planned support agreement
- Let Zebra handle support, while you focus on your strategic initiatives



Why Zebra

Why Choose Zebra



LEGACY

For over 40 years, Zebra has been setting new standards in the barcode scanning industry.

- Inventor of the PDF417 barcode
- 1st Handheld scanner
- 1st Rugged barcode scanner
- 1st Six-sided multi-plane imager
- 1st Wireless scanner
- 1st OEM scan engine
- 1st Hybrid RFID imager
- 1st Fully customizable imager



INNOVATION

Cutting-edge technology gives Zebra imagers greater intelligence and simplicity.

- Comprehensive DataCapture DNA ecosystem of intelligent software, utilities and apps
- Exclusive PRZM Intelligent Imaging Technology
- Intelligent Document Capture
- Multi-Code Data Formatting (MDF)
- ScanSpeed Analytics to boost throughput



BEST-IN-CLASS PORTFOLIO

When it comes to 2D imaging leadership, Zebra wins hands down.

- Best-in-class decode range on a 2D general purpose handheld imager
- Best-in-class multi-plane imaging bioptic
- Best-in-class performance and durability on a vertical slot scanner
- Best-in-class megapixel engine

It's no wonder the largest customers in the world trust Zebra for their barcode scanning needs.

Zebra FACTS

Channel partners in **more than 100 countries**

Customers include **more than 95 percent**
of all Fortune 500 companies

~7,000
employees
worldwide

122+ offices
across 81
countries

~\$4.3
billion market cap

4,200+
US &
international
patents issued
and pending

Unmatched Breadth

**EVERYTHING YOU NEED TO SIMPLIFY YOUR EVERYDAY PROCESS,
ALL UNDER ONE ROOF — PRINTERS, MOBILE DEVICES, SCANNERS, RFID,
SOFTWARE SOLUTIONS AND SERVICES**



Industrial printers	Handheld RFID readers
Desktop printers	Fixed RFID readers
Mobile printers	Interactive kiosks
Mobile computers	Fixed mount scanners
Handheld barcode scanners	Mobile device management
Hands-free barcode scanners	End-to-end services

Thank You



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