Make and Move Goods at the Speed of Demand

Zebra's fixed industrial scanning solutions

Zebra_FIS-CFP-UMD.001

Can You Afford to Manually Track and Trace?
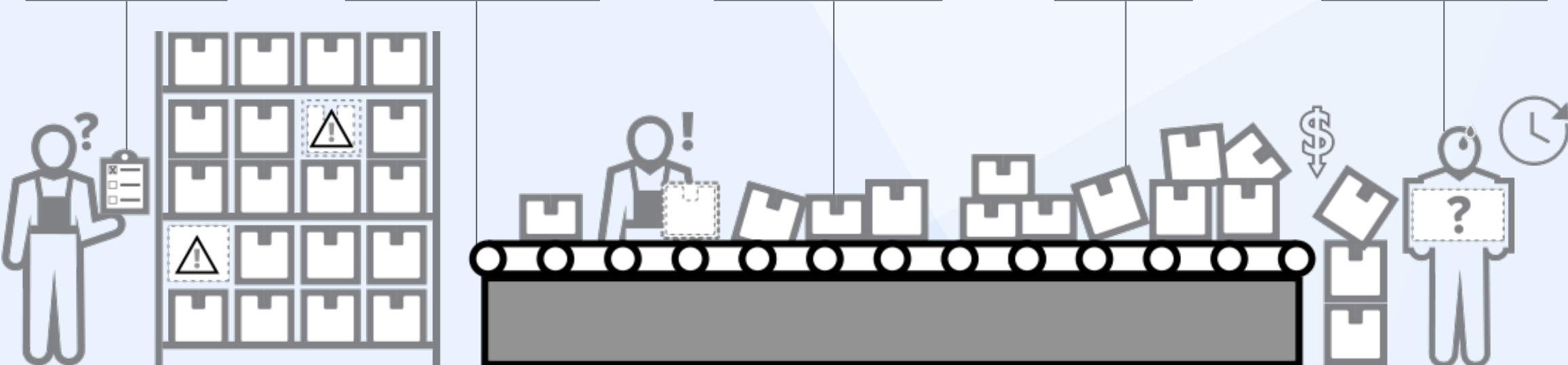
Solve Your Most Critical Operational Challenges

Relieve pressures with Zebra's fixed industrial scanning solutions

Boost throughput

Increase accuracy

Optimize efficiency

Increase savings

Business Leaders Respond with Intelligent Automation
Addressing the new reality

From Inefficient Processes	To Optimal Workflows

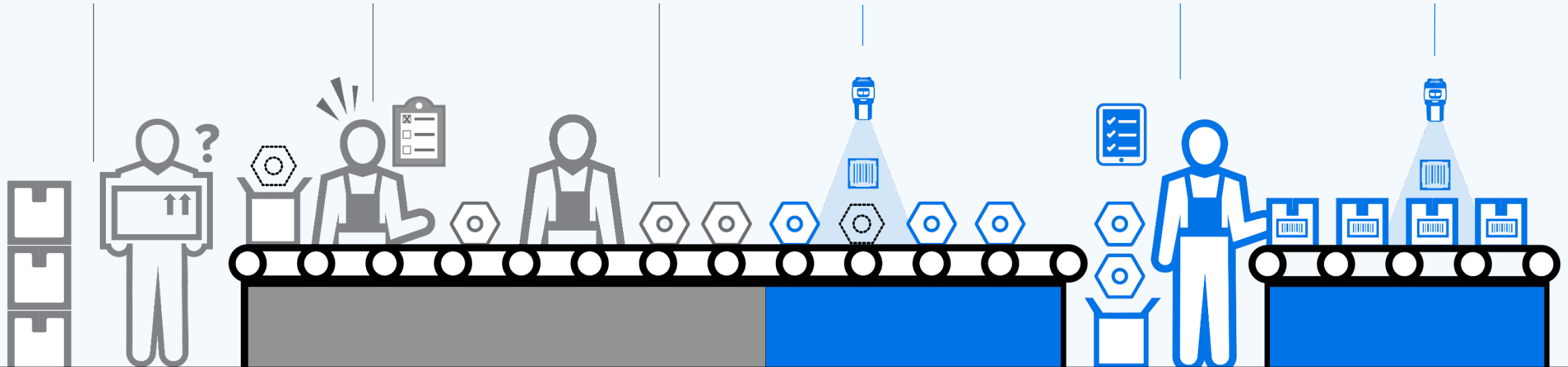Human errors and inconsistencies

Workforce challenges

Tedious, manual checks

Automate manual tasks

Improved productivity and throughput

Work-in-process visibility

Increase accuracy and speed with Zebra's fixed industrial scanning solutions

What Makes Our Portfolio Different?
Simplicity. Flexibility. Longevity. Value.

Deploy faster

Speed up decision making

Customize as needed

Interoperable, expandable licensing options

Cut training time dramatically

Solve applications quicker

Leverage an extensive library of tools

What Can Zebra Do With Fixed Industrial Scanning?
Virtually Everything

Scan Tunnel
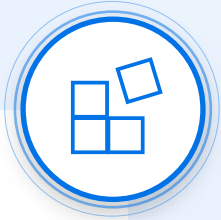
Deep Learning-based OCR

Forklift Scanning

Dock Door Portal Scanning

Pack Bench Overhead Scanning

In-line Sorting
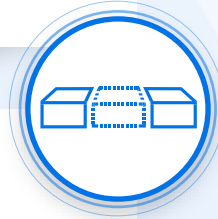
Pallet Scanning

Conveyor Routing
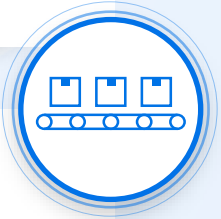
Tracking and Traceability

Print and Apply

Job Verification

Route Guidance

Solve Your Most Critical Operational Challenges
Relieve pressures with Zebra's fixed industrial scanning solutions

Manufacturing

Scan Tunnel

Print and Apply

Deep Learning-based OCR

Tracking and Traceability

Optimize Your Workflows
Choose purpose-built technology for your day-to-day

Warehouse, Transportation, And Logistics

- Scan Tunnel
- Conveyor Routing
- Sorting
- Dock Door Portal Scanning
- Pallet Scanning
- Forklift Cameras

Hardware

Fixed Industrial Scanners
Track and trace from production to distribution

Easily keep track of every part and package with **Zebra's range of fixed industrial scanners**. Their upgradable features grow to meet evolving business needs.

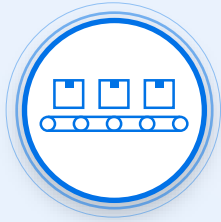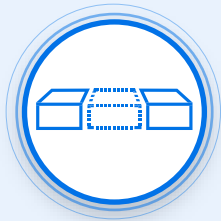| FS10 Fixed Industrial Scanner	FS20 Fixed Industrial Scanner	FS40 Fixed Industrial Scanner	FS42 Fixed Industrial Scanner	FS70 Fixed Industrial Scanner	GS20 Connectivity Gateway
Easily track and trace items with Zebra's smallest fixed industrial scanner as they move through the warehouse and distribution center with USB plug-and-play.	Integrates high-quality scanning to track and trace every item as it moves through production, storage and fulfillment.	Broad capabilities meet complex barcode capture requirements and can be tailored to specific needs, with flexible options like decode range, illumination, variable focus, connectivity and power.	New quad core processor for a customizable and powerful scanner crafted to seamlessly integrate into high-speed scanning operations.	Completely customizable scanner facilitates challenging track-and-track operations. Choose from a variety of C-mount external lens and lighting options to achieve the working range and field of view the application and environment requires.	A powerful industrial connectivity gateway enables scan tunnel configurations to substantially increase package tracking and sorting throughput.

FS10 Fixed Industrial Scanner

This compact device easily fits wherever you need scanning

Operator interface
Feedback and status indicators
Manual Trigger & Autotune

LED-Aimer

Ultra-Rugged design
IP65 & IP67 sealed

Plug and play
High speed Powered
USB with configurable IO

1MP monochrome
Sensor and liquid lens
Monochrome

Powerful integrated lighting

FS20

Easily integrate industrial scanning and machine vision into your network

Power & IO
24VDC, PoE, USB
C Superspeed,
4 configurable IO's

Operator Interface
Feedback and status indicators
Manual Trigger & Autotune

LED-Aimer

1MP Monochrome
Sensor and liquid lens

Monochrome

Ultra-Rugged design
IP65 & IP67 sealed

Powerful integrated lighting

M12 Gigabit Ethernet
X-Coded / ODVA Compliance

EtherNet/IP   PROFI NET   Modbus TCP

ZEBRA TECHNOLOGIES

FS40
Comprehensive features including range illumination and connectivity

Adaptable Mounting
Options on three sides of the unit

Operator Interface
Feedback and status indicators
Manual Trigger & Autotune

Powerful integrated lighting

Liquid lens
Standard 30 degree and
Wide Angle 46 degree

Ultra-Rugged design
IP65 & IP67 sealed

Extensive Filter Options

LED-Aimer

Power & IO
24VDC, PoE, USB 3.0
Superspeed, configurable IO

GB ETHERNET

Dual M12 Gigabit Ethernet
X-Coded / ODVA Compliance

2MP or 5MP Sensor
Monochrome

360 Degree Decode/Job Status LEDs

External Light Power
With control/GPIO

EtherNet/IP

PROFI NET INDUSTRIAL ETHERNET

Modbus TCP

FS42

An unbeatable combination of features, flexibility and power

360 Degree Decode/Job Status LEDs

Operator Interface
Feedback and status indicators
Manual Trigger & Autotune

2MP Sensor
Monochrome

Extensive Filter Options

Liquid lens
Standard 30 degree and
Wide Angle 46 degree

Powerful integrating lighting

Ultra-Rugged design
IP65 & IP67 sealed

LED-Aimer

Ultrafast quad core processor, NPU and new ASIC

Power & IO
24VDC, PoE, USB 3.0
Superspeed, configurable IO

External Light Power
With control/GPIO

8GB Memory

Adaptable Mounting
Options on three sides of the unit

GB ETHERNET

M12 Gigabit Ethernet
X-Coded / ODVA Compliance

EtherNet/IP

PROFI NET

Modbus TCP

FS42
Enhance operational visibility with the latest fixed industrial scanner

New ultra-fast processor **– Quad core plus NPU and new ASIC**
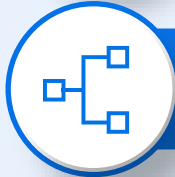
Double the memory – **8GB**

New resource-intensive applications:

- **AI Deep learning-based OCR** - faster reading speed to quickly capture text information without the need for font training
- **Good Image Anomaly Detection***, a new QA tool that flags any deviations from a "golden standard" reference image.

*Available in a future release. Contact your Zebra Partner or sales representative for more information

FS70

Customizable to meet your scanning and inspection demands

Ultra-Rugged design
IP65 & IP67 sealed

Operator Interface
Feedback and status indicators
Manual Trigger & Autotune

Adaptable Mounting
Options on three sides of the unit

360 Degree Decode/Job Status LEDs

Power & IO
24VDC, PoE, USB 3.0 Superspeed, configurable IO

2MP or 5MP Sensor
Monochrome

External Light Power
With control/GPIO

GB ETHERNET

Dual M12 Gigabit Ethernet
X-Coded / ODVA Compliance

Configurable Optics and Lighting
Support any external C-mount lens, filters and external lighting

EtherNet/IP™   PROFINET®   Modbus TCP

ZEBRA TECHNOLOGIES

GS20 Connectivity Gateway

Next-generation scan tunnel architecture

No-code setup
with web-based HDMI GUI

Ultra-Rugged design
IP65 & IP67 sealed

Connect up to 16 cameras
for better configuration flexibility

Easy integration with existing systems
to reduce deployment time and cost

Deploy in any environment
with ultra-rugged, dustproof and waterproof housing

Aggregates scanned data
and sends only what's required by the host app

Fixed Industrial Scanners

Handle out-of-the box tracking and tracing

Model	FS10 *1.0 MP*	FS20 *1.0 MP*	FS40 *2.3 MP / 5.1 MP*	FS42 *2.3 MP*	FS70 *2.3 MP / 5.1 MP*
Software	Aurora Focus	Aurora Focus	Aurora Focus	Aurora Focus	Aurora Focus
Illumination	1x Red *(660 nm)* 1x White *(2700K)*	2x Red *(660 nm)* OR 2x White *(2700K)*	8x Red *(660 nm)* 8x Blue *(470 nm)* 8x IR *(850 nm)* 8x White *(2700K)*	8x Red *(660 nm)* 8x Blue *(470 nm)* 8x IR *(850 nm)* 8x White *(2700K)*	Supports many standard illumination system while powered by a 24 VDC supply
Resolution	1280 x 800	1280 x 800	1920 x 1200 / 2592 x 1952	1920 x 1200	1920 x 1200 / 2592 x 1952
Acquisition Rate	Up to 60 fps	Up to 60 fps	Up to 60 fps / Up to 30 fps	Up to 60 fps	Up to 60 fps / Up to 30 fps
Configurable IO	N/A	Two opto-isolated inputs: IN 1,2 Two opto-isolated outputs: OUT 1,2	Four opto-isolated GPIO: GPIO0,1,2,3 Five non-isolated GPIO: GPIO4,5,6*,7*,8* *Unavailable when External Light Mode is enabled	Four opto-isolated GPIO: GPIO0,1,2,3 Five non-isolated GPIO: GPIO4,5,6*,7*,8* *Unavailable when External Light Mode is enabled	Four opto-isolated GPIO: GPIO0,1,2,3 Five non-isolated GPIO: GPIO4,5,6*,7*,8* *Unavailable when External Light Mode is enabled
Interface Ports	1 USB 2.0 High Speed Type-C Connector	One M12 X-Coded 1000/100/10 Mbps Ethernet One M12 12-pin Power/GPIO/RS-232	One M12 X-Coded 1000/100/10 Mbps Ethernet* One M12 12-pin Power/GPIO/RS-232 One M12 5-pin External Light Power & Control/GPIO One USB 3.0 SuperSpeed Type-C with DisplayPort Alt Mode *Available with one or two Ethernet ports; PoE is only supported by the primary Ethernet port	One M12 X-Coded 1000/100/10 Mbps Ethernet* One M12 12-pin Power/GPIO/RS-232 One M12 5-pin External Light Power & Control/GPIO One USB 3.0 SuperSpeed Type-C with DisplayPort Alt Mode *Available with one Ethernet port; PoE is only supported by the primary Ethernet port	Two M12 X-Coded 1000/100/10 Mbps Ethernet* One M12 12-pin Power/GPIO/RS-232 One M12 5-pin External Light Power & Control/GPIO One USB 3.0 SuperSpeed Type-C with DisplayPort Alt Mode *Available with one or two Ethernet ports, PoE is only supported by the primary Ethernet port
Communication Protocols	USB, HID	Ethernet/IP, PROFINET, Modbus TCP, TCP/IP, RS-232	Ethernet/IP, PROFINET, Modbus TCP, TCP/IP, RS-232	Ethernet/IP, PROFINET, Modbus TCP, TCP/IP, RS-232	Ethernet/IP, PROFINET, Modbus TCP, TCP/IP, RS-232

GS20 Connectivity Gateway

Increase package tracking and sorting throughput substantially

Software	Aurora Focus
Common Applications	Applications that require the connection of multiple fixed scanners with Leader and Follower connectivity such as managing **code sorting, filtering, scan tunnels and dock door portals.**
Maximum Followers	Up to 16 devices
Power	10 to 30 VDC external power supply; 7W max at 24V; Class 2 PoE, 7W
Configurable IO	(4) Four opto-isolated GPIO: 2 dedicated inputs(IN0/IN1), 2 dedicated outputs (OUT0/OUT1)
Interface Ports	(1) M12 X-Coded 1000/100/10 Mbps Ethernet (1) M12 12-pin Power/GPIO/Serial
Communication Protocols	**Host to Leader:** PLC (Siemens, Rockwell, Omron, Mitsubishi models), TCP/IP, Serial, GPIO
	Leader to Followers: TCP/IP, GPIO
	Follower Devices: Compatible with a series of Zebra FS/VS cameras, tablets, printers, handheld scanners and scales connected via TCP/IP and GPIO.

Add Versatility to Your Device

With add-on accessories

Customize your solution with efficiency-boosting accessories

Bar Light Polarizer (300mm and ...)	LED Ring Light (100mm)	C-mount Lenses
External lights to optimize quality	External light to improve visibility	Add-on lenses for enhanced photo quality

Filters	Light Covers	Cables	Power Supplies

# Software

Zebra **Aurora** Focus™

Experience plug-and-play for Zebra's fixed scanners

What it is:

- On-device software for Zebra's fixed industrial scanners

What it does:

- Ready-made for barcode reading and verification, OCR, and presence/absence vision inspection

- Workflow organized into 3 easy steps:

    1. **Capture** the best images for the job

    2. **Build** and create jobs quickly, adding and configuring tools as required

    3. **Connect** and interface with systems
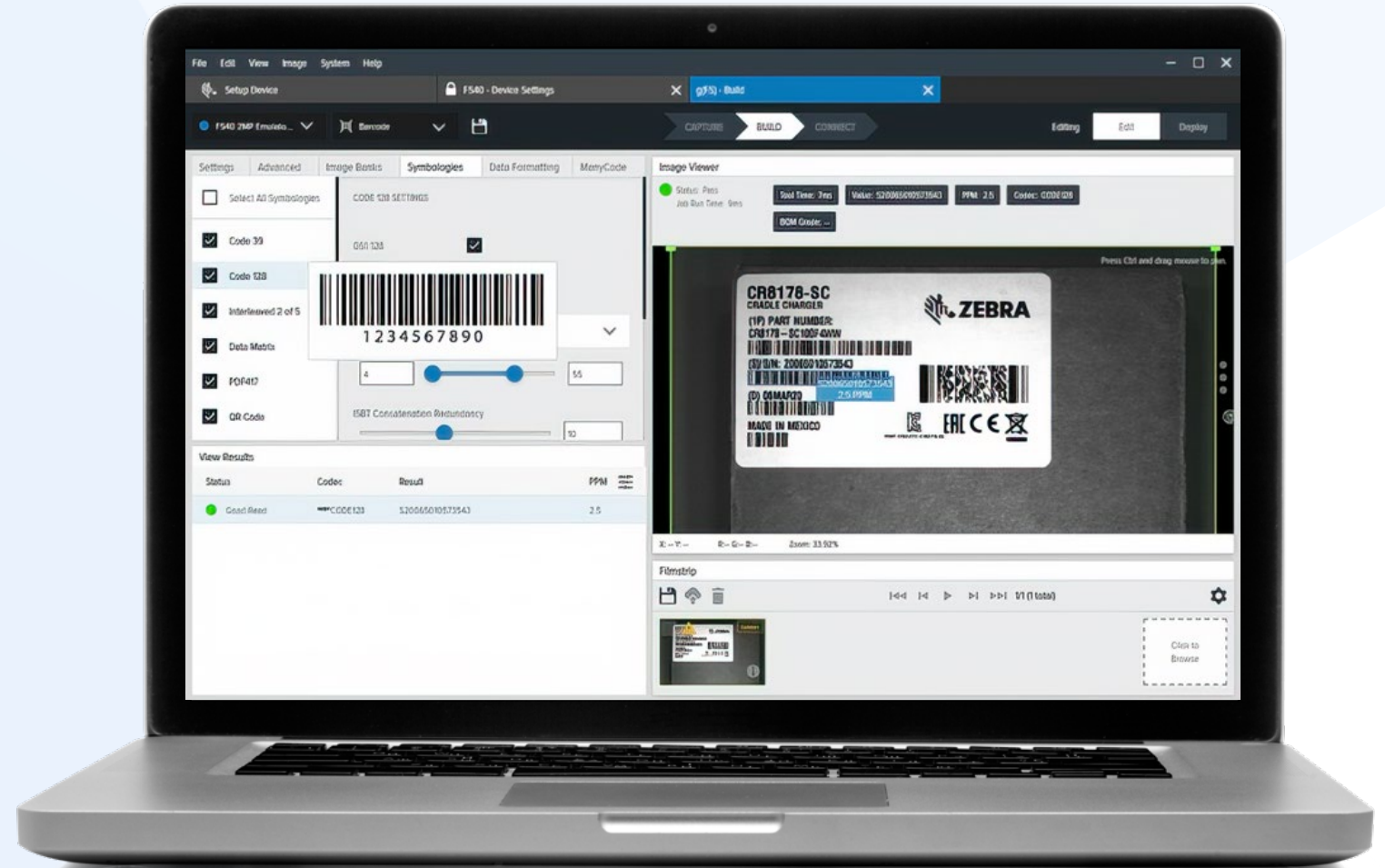
Automatically Achieve Quality

Instantly capture even the most challenging barcodes

Pair Aurora Focus with Zebra FS models for **unmatched fixed industrial scanning**.
Aurora Focus features a simple interface for configuring scanner connections. The software is purpose-built to scan and compare barcodes (1) for traceability and tracking, (2) to determine code quality, and (3) to assess whether code quality impacts scan ability.

Device Compatibility

FS40 FS42 FS70

FS10 GS20 FS20

| Settings | Advanced | Image Banks | Symbologies | Data Formatting | ManyCode |

Decode Strategy   Fast

Detection Method   Finder Pattern

Allow Rectangular Codes ☑

Enable Aim Code Identifier ☐

Expected Module Size (pixels)   4   20

View Results

Status	Codec	Result	PPM
● Pass	CODE128	S20065010573543	2.5

Image Viewer

● Status: Pass
Job Run Time: 3ms
Tool Time: 2ms   BDF Display Value: S20065010573543   PPM: 2.5
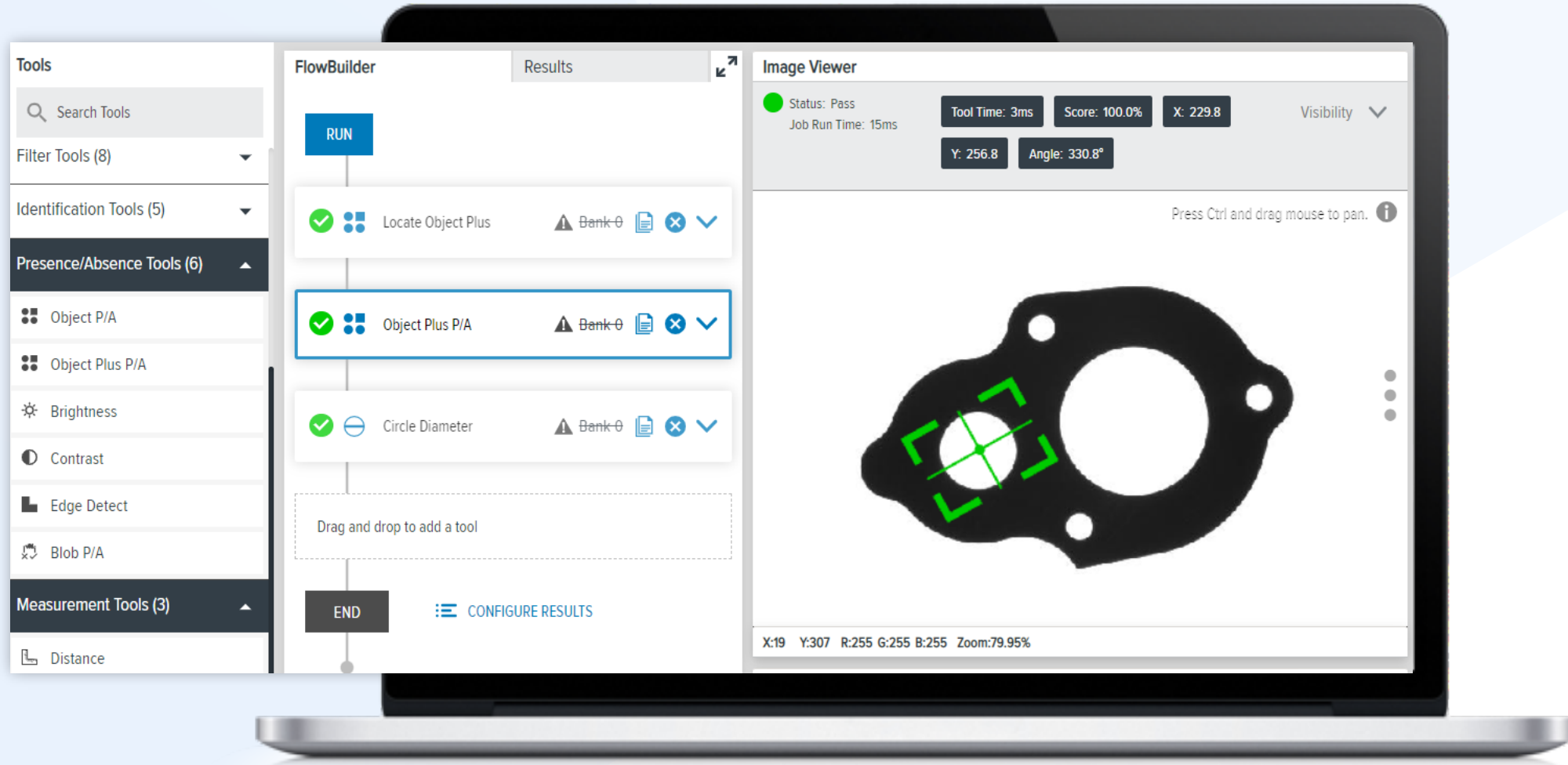Codec: CODE128   BQM Grade: --

Press Ctrl and drag mouse to pan.

Read Barcode

CR8178-SC
CRADLE CHARGER
(1P) PART NUMBER:
CR8178-SC100F4WW
(S) S/N: 20065010573543
S20065010573543
2.5 PPM
(D) 06MAR20
MADE IN MEXICO

X:-- Y:-- R:-- G:-- B:-- Zoom:29.27%

Upgrade from Fixed Industrial Scanning to Machine Vision

Without the need to 'rip and replace' or add components

Use Cases

Dock Door Portal Scanning

Capture package data upon entry
and exit to improve inventory accuracy

Key capabilities:

- Multi-sided barcode reading

- Pallet verification

- Asset tracking

Zebra product offerings:

- Zebra FS42 / FS40

- Aurora Focus Software

Why Choose Zebra To Build Your Dock Door?
How our solutions stand apart

Proven high-speed barcode reading with unmatched accuracy that improves efficiency and overall throughput

Innovative sensors and smart cameras available in various sizes to accommodate any field of view

Powerful software to read and decode OCR, barcodes, dimensional information and label defects

Seamless integration with existing automation equipment

Cost effective, customizable solutions

Easily pair with other Zebra devices such as mobile computers and industrial printers for a **single-source solution**

Rugged design to sustain harsh environments and reduce maintenance and down-time

Trust an **award-winning** partner ecosystem who are experts in vison technology

Forklift Scanning
Increase safety and efficiency, simultaneously

Key capabilities:

- Barcode reading
- RFID reading

- Pallet verification
- Inventory accuracy

Zebra product offerings:

- Zebra FS42 / FS40
- Aurora Focus Software

Why Choose Zebra To Build Your Forklift Scanner?

How our solutions stand apart

Proven high-speed barcode reading with unmatched accuracy that improves efficiency and overall throughput

Innovative sensors and smart cameras available in various sizes to accommodate any field of view

Powerful software to read and decode OCR, barcodes, dimensional information and label defects

Seamless integration with existing automation equipment

Cost effective, customizable solutions

Easily pair with other Zebra devices such as mobile computers and industrial printers for a **single-source solution**

Rugged design to sustain harsh environments and reduce maintenance and down-time

Trust an **award-winning** partner ecosystem who are experts in vison technology

Packing Bench
Boost worker efficiency by up to 33%

Key capabilities:

- Multi-sided barcode reading
- Package reading

- Seamless integration with Zebra printers

Zebra product offerings:

- Zebra FS10 / FS40
- Aurora Focus Software
- Zebra Printers

Why Choose Zebra To Build Your Packing Bench?
How our solutions stand apart

Proven high-speed barcode reading with unmatched accuracy that improves efficiency and overall throughput

Innovative sensors and smart cameras available in various sizes to accommodate any field of view

Powerful software to read and decode OCR, barcodes, dimensional information and label defects

Seamless integration with existing automation equipment

Cost effective, customizable solutions

Easily pair with other Zebra devices such as mobile computers and industrial printers for a **single-source solution**

Rugged design to sustain harsh environments and reduce maintenance and down-time

Trust an **award-winning** partner ecosystem who are experts in vison technology

Scan Tunnels

Scan a stream of packages with multiple barcode labels on up to 5 sides

Key capabilities:

- Multi-sided barcode reading
- Conveyor tunnels
- Dock door portals

- Pallet reading
- Tote reading and sorting
- Zone routing

Zebra product offerings:

- Zebra FS10 / FS20 / FS42 / FS40
- Zebra GS20
- Aurora Focus Software

Why Choose Zebra To Build Your Scan Tunnel?
How our solutions stand apart

Proven high-speed barcode reading with unmatched accuracy that improves efficiency and overall throughput

Innovative sensors and smart cameras available in various sizes to accommodate any field of view

Powerful software to read and decode OCR, barcodes, dimensional information and label defects

Seamless integration with existing automation equipment

Cost effective, customizable solutions

Easily pair with other Zebra devices such as mobile computers and industrial printers for a **single-source solution**

Rugged design to sustain harsh environments and reduce maintenance and down-time

Trust an **award-winning** partner ecosystem who are experts in vison technology
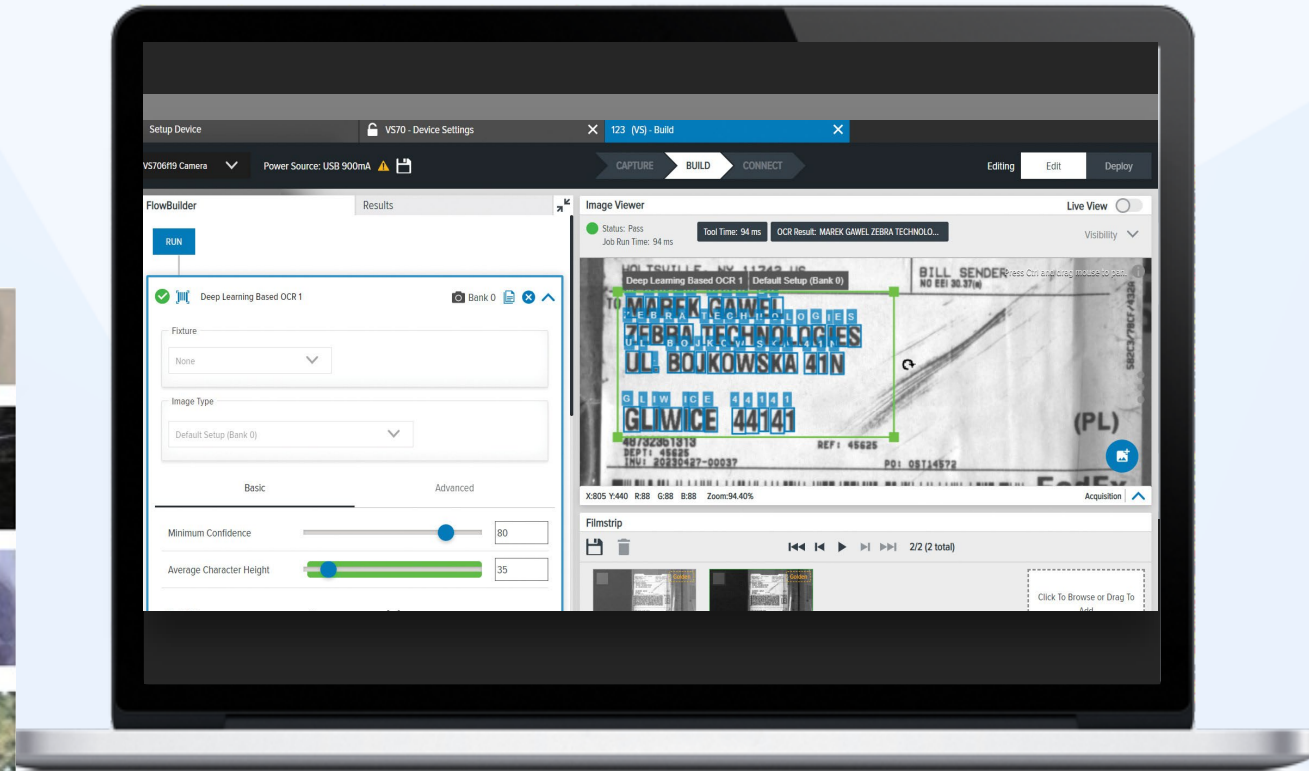
Deep Learning-based OCR
Easily capture text information on parts, labels and more

Key capabilities:

- Date and lot codes
- Batch codes
- Expiration date codes
- Label verification

- Quick deployment
- No coding or programming
- No training required

Zebra product offerings:

- FS42
- FS40 / FS70

Services

Zebra **OneCare™ Maintenance Plans**
Protect your investment your way

More than just repair, Zebra protects your technology from the inside out—and the operational outcomes you expect from it.

Feature	Zebra OneCare Technical and Software Support (TSS)	Zebra OneCare Essential	Zebra OneCare Select
	Standalone technical and software support	Core assurance	Maximum protection
Live-agent support	Mon–Fri, 8–5 local time	Mon–Fri, 8–5 local time	24/7
Repair turnaround time		3-day repair turnarounds	"Like-new" replacement device ships for next-business-day delivery
Coverage		Accidental damage	Accidental damage
Software updates	✓	✓	✓
Cloud-based visibility into repair, case reports and more with VisibilityIQ OneCare**	✓	✓	✓
Spares Pool Management	✓	✓	✓

Services Offered

Industrial machine vision and fixed scanners

Zebra OneCare Level	Fixed Scanners and Machine Vision Cameras	Machine Vision Products
	VS, CV, GS and FS families	Former Matrox Imaging products
Zebra OneCare **Essential**	✓	Not available
Zebra OneCare **Select**	✓	Not available
Zebra OneCare **Technical and Software Support (TSS)**	✓	✓ Available Oct 2023 for Software Developer Kits (Aurora Imaging Library and Aurora Design Assistant).

You Need It. We've Got It

One source. One portfolio.
Endless opportunities

Zebra Aurora™ Software

Zebra Barcode Libraries

Aurora Focus™

Zebra Hardware

Frame Grabbers

Fixed Scanners

Aurora Design Assistant™

I/O Cards

Smart Cameras

Aurora Vision Library™

Vision Controllers

Machine Vision Cameras

3D Sensors

Aurora Imaging Library™

Aurora Vision Studio™

ZEBRA

Partner with a Proven Industry Leader

Provider of data capture solutions

#1

Network of providers
10,000+ channel partners in over 190 countries

40% of total sales
from transportation, logistics, and manufacturing sectors

$5.78B
global sales

10% of sales
reinvested for R&D

6,500+ patents
and key driver of specifying industry standards (GigE Vision, CoaXPress)

50+ years of experience
in industrial automation

30 years of experience
in software development

$750M invested
in software

Gartner Leader
in Magic Quadrant for Indoor Location Services

ZEBRA

Ready to
Improve Your Margins and Metrics?
So are we.

UMD Value Added Services

Engineering IoT Solutions

Design

Design & manufacture:
IoT devices and interfaces
Cables
Modify products
Mechanical design and assemble

Source

— **Data capture & ICT products and from our many agencies**

— **Systems Integration**

— **Solutions Architecture**

— **Systems Engineering**

Support

Through our extensive professional services in

— **Engineering**

— **Software**

— **Deployment**

— **Support**

Full Stack Solution Provider

Encompassing

— **Data Carriers (barcode, RFID, sensors)**

— **Edge devices and gateways**

— **Own and manage PCI-DSS compliant Data Center**

— **Middleware and Cloud Application Broker**

— **Software: cloud, mobile and embedded applications**

— **Design, deploy and managed services**

UMD EDGE SOLUTIONS

Full Stack Warehouse Data Capture IoT

UNIQUE MICRO DESIGN
...Engineering IoT Solutions

03 9582 7000
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sales@umd.com.au

1/200
Wellington Rd
Clayton VIC 3168

Terminals

IoT

ERP/AMS

SYSTEM

Dashboard

HEXICORE
- Dashboard
- Industrial Analytics
- Mapping

Subscribers

Device Application
- Ivanti Telnet
- Ivanti Browser
- Ivanti Voice
- Companion Apps

Connectors
- HTTP / Webhooks
- Telnet
- MQTT

Infrastructure

ITEM LOCATION

Broker Service

UMD CHARIOT

Services
- Meta Data
- Authentication
- Device Management

Wireless
- Access Points
- Networking

Terminals
- Keypads
- PDA
- Tablets
- Wearables
- Vehicles

Printers
- Desktop
- Industrial
- Portable
- Vehicle
- Media

Services
- Site Survey
- Audits
- Design
- Install

Machine Vision
- Fixed Industrial Scanner
- Machine Vision

Sensors
- Prox
- Location
- Temperature/Environment
- Machine

RFID RACE
- Handheld
- Portals
- Gates
- Conveyors
- Embedded
- RFID Tags

Device Management

ivanti
SOTI
- Support

Services
- Engineering / Custom
- Architecture / Design
- Systems Engineering
- Device Pre-configuration
- Installation
- After Sales Support

ZEBRA TECHNOLOGII

SB-150.001

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sales!@umd.com.au