

# FS10 Fixed Industrial Scanner

Put plug-and-play high quality scanning wherever you need it

The increasing demands of international commerce and its global supply chain are pressuring companies to deliver more — and to do it faster. From manufacturing to logistics to the end customer, success is driven by the ability to quickly move and track the products that drive your business.



Now, you can address it all with the compact Zebra FS10 Fixed Industrial Scanner.<sup>1</sup> With a slim profile, the FS10 easily fits everywhere you need scanning. Just plug the FS10 into the USB port of a workstation, laptop, tablet or any other host device to dependably capture barcode data, from assembly to storage and fulfillment.

Zebra's FS10 Fixed Industrial Scanner sets the bar for simplicity, advanced data capture and return on investment. It all starts with Zebra Aurora™ — a powerful and intuitive software platform that makes it exceptionally easy to set up, deploy and run all Zebra Fixed Industrial Scanners, including the FS10. Once up and running, Zebra-exclusive features including ImagePerfect and PRZM Intelligent Imaging deliver first-time, every-time data capture. As your needs change, easily add support for new codes and increased scanning speed — all through the simple purchase of software licenses that future-proof your investment. Take your success to the next level with extraordinary visibility into your operational processes — with the FS10, only from Zebra.

## Zebra Aurora™ Software

### A single unified platform across Zebra's fixed industrial scanner and machine vision portfolio

Zebra Aurora brings a new level of simplicity to controlling enterprise-wide manufacturing and logistics automation solutions. This powerful interface makes it easy to set up, deploy and run all of Zebra's Fixed Industrial Scanners and Machine Vision Smart Cameras, while eliminating the need for different tools.

### For experts and beginners

Experienced and first-time users can easily navigate the highly intuitive modern interface, reducing training and deployment time. Experienced users will appreciate easy access to all functions and streamlined processes, while first-time users are guided through all the steps in the proper order. And if users need a little help, Learn-As-You-Go offers built-in tutorials, walk-throughs and videos on all aspects of the software and its comprehensive management toolset.

## Easy to set up

### Automatic setup with Auto-Tune

Just Auto-Tune and run for consistent, reliable read rates — right out of the box. With the press of one button, Auto-Tune dials in the perfect image for faster and more accurate set up.

### Up and running in seconds

The FS10 is truly plug and play. Just plug the compact FS10 into the USB port of a workstation, laptop, tablet or any other host device to flawlessly capture the barcode data required to streamline inventory management, order fulfillment and more.

## Easy to deploy

### Ultra-rugged and ready for industrial spaces

Rely on dependable operation in the most demanding environments with an ultra-rugged design. The aluminum housing is chemical and oil resistant and IP65-sealed.

### Operator feedback/status indicators

With built-in camera status LEDs — Power, Decode and Online/Run — workers can see at a glance if a decode was successful or unsuccessful, protecting product quality and traceability — and whether cameras are operational or in need of attention. In addition, a beeper with adjustable volume provides an audible cue of a successful decode, so workers can keep their eyes on the job — instead of the device.

### Added flexibility with Zebra Aurora HMI dashboard

Give workers actionable intelligence right where they need it — at their station. Operators can see and interact with the Zebra Aurora Human Machine Interface (HMI) dashboard via any web browser. The need to install a PC at every workstation is eliminated, reducing hardware requirements and installation costs.

## Easy to run

### First-time every-time data capture

Superior optics and Zebra's exclusive PRZM Intelligent Imaging technology work together to deliver the reliable data capture you need to keep your operations running at peak capacity. The optical system enables the simultaneous capture of multiple barcodes, extends read ranges and focal distances and allows a larger field of view to capture more information with less equipment. PRZM Intelligent Imaging is designed for the data capture demands of your environment, enabling the first-time capture of virtually any barcode in practically any condition.

### Achieve high read rates with ImagePerfect

Uneven lighting and the need to read barcodes at various distances can create the need for additional cameras, external lights or complex

custom code — additions that can substantially increase the total cost of ownership. Address it all with a groundbreaking new feature — ImagePerfect. This Zebra-exclusive feature captures up to 3 different images of a single item, each with its own unique setting for focus, exposure, gain, illumination control and more. The result? High quality images that enable high read rates. A significant reduction in solution complexity. And a lower total cost of ownership.

### Capture the data that drives your business

With the FS10, you can capture 1D, 2D and DPM barcodes, plus OCR human readable characters. Choose the configuration that supports the codes that drive your business processes today, knowing you can add functionality to meet the data capture needs of tomorrow. Easily add support for new barcode symbologies and increased scanning speed to meet new business needs, all with the simple purchase of a software license.

### Rapid troubleshooting with Golden Image Compare

If any barcode reads fail, this Zebra-only tool allows you to quickly identify and resolve the issue by comparing any image to a golden 'perfect' image created at setup. The source of any image degradation can be immediately diagnosed, enabling the rapid correction needed to minimize downtime — from a dirty lens or a lighting problem to misalignment of the camera.

### Identify and correct setting changes with Job Compare

This unique tool compares current settings in the job and the camera to all initial settings, allowing users to revert back to the original settings with one click.

### Scan all barcodes simultaneously with ManyCode

Need to read multiple barcodes on an item? With one click in Zebra Aurora, you can enable ManyCode mode to capture all barcodes simultaneously, regardless of quantity, symbology or barcode data.

### Complete support service — everything's covered

Get the constant peak performance and device uptime today's businesses demand with Zebra OneCare™ Essential and Select Support Services. Unexpected disruptions and unbudgeted repair expenses are eliminated. Everything is covered — including normal wear and tear and accidental damage. You can customize your support plan with numerous options to get the service level your business needs, including next-day delivery of a replacement device, on-site support, cloud-based visibility into your contracts, repair data, tech support cases — and more.

## Key Differentiators

The FS10 is loaded with class-leading features, including:

### ImagePerfect

#### Achieve high read rates with ImagePerfect

Capture up to three different images of a single item, each with its own unique setting for focus, exposure, gain, illumination control and more.

### PRZM Intelligent Imaging

#### First-time every-time barcode capture

Capture virtually any barcode in practically any condition — from 1D and 2D barcodes on a fast-moving conveyor belt, to DPM codes that are printed on challenging curved and reflective surfaces and more.

### Software upgradeable

#### Add what you need, whenever you need it

Add support for new barcode symbologies, faster barcode capture and all the machine vision tools you need through simple software licensing.

### Plug and play with USB Up and running in seconds

Just plug the compact FS10 into the USB port of a workstation, laptop, tablet or any other host device to capture the flawless barcode data required to streamline inventory management, order fulfillment and more.

Introducing the  
Zebra Fixed  
Industrial  
Scanner and  
Machine Vision  
Portfolio



FS10



FS20/VS20



FS40/VS40



FS70/VS70

## Specifications

Device Characteristics	
Dimensions	1.0 in. H x 2.0 in. D x 1.7 in. W 25.4 mm H x 51.0 mm D x 43.0 mm W
Weight	4.23 oz./120.0 g
Power	5 VDC, 1 A max (5 W)
Color and Material	Industrial green aluminum housing
Interface Ports	1 USB 2.0 High Speed Type-C Connector
User Indicators	Decode/Job Status LEDs, Power LED, Online/Run LED, Beeper (adjustable volume)
Performance Characteristics	
Image Sensor	1/4 inch CMOS, global shutter 1280 x 800, 3.0 um square pixels Monochrome
Acquisition Rate	Up to 60 frames/second
Aimer	Amber LED; circular pattern
Illumination	One 660nm Red LED and one 2700K White LED
Imager Field of View	6.0mm Liquid Lens: 35° H x 26° V Nominal
User Environment	
Operating Temp.	32° F to 113° F/0° C to 45° C
Storage Temp.	-40° F to 158° F/-40° C to 70° C
Environmental Sealing	IP65
Humidity	5% to 90% RH, non-condensing
Shock Resistance	EN 60068-2-27, 30 g; 11 ms; 3 shocks on each axis
Vibration Resistance	EN 60068-2-6, 14 mm @ 2 to 10 Hz, 1.5 mm @ 13 to 55 Hz; 2 g @ 70 to 500 Hz; 2 hours on each axis
Supported Symbolologies <sup>2</sup>	
1D	Code 39, Code 93, Code 128, 12 of 5, MSI Plessey, UPC/EAN
2D	Aztec, Data Matrix, DotCode, MaxiCode, PDF417, Micro PDF417, QR Code, Micro QR
OCR	OCR-A, OCR-B, MICR, US Currency, Trainable OCR (available on select models or via an add-on OCR license)
Software	
Management	Zebra Aurora™
Decoder Packages	1D/2D Standard (5 FPS); 1D/2D Fast and OCR (60 FPS); 1D/2D DPM Full and OCR (60 FPS); Trainable OCR (standalone license) (Decoder packages vary by SKU; software Decoder Package upgrades available via an upgrade license.)

Regulatory	
Environmental	EN 50581:2012; EN IEC 63000:2018
Electrical Safety	IEC 62368-1 (Ed.2); EN 62368-1:2014/A11:2017
LED Safety	IEC 62471:2006 (Ed.1); EN 62471:2008
EMI/EMS	EN 55032:2015/A11:2020 (Class B) EN 55035:2017 EN 61000-3-2:2014 (Class A) EN 61000-3-3:2013 47 CFR Part 15, Subpart B, Class B ICES-003, Issue 7, Class B
EU Declaration of Conformity	2014/30/EU; 2014/35/EU; 2011/65/EU. For more information visit: <a href="http://www.zebra.com/doc">www.zebra.com/doc</a>

Accessories	
Brackets, cables, power supplies	

Warranty	
Subject to the terms of Zebra's hardware warranty statement, the FS10 is warranted against defects in workmanship and materials for a period of Two (2) Years from the date of shipment. Complete Zebra hardware product warranty statement: <a href="http://www.zebra.com/warranty">www.zebra.com/warranty</a>	

Recommended Services	
Zebra OneCare Select; Zebra OneCare Essential	

Decode Ranges (Typical Working Ranges) <sup>3</sup>		
FS10-SR — 35° FOV Lens		
Symbology/Resolution	Near	Far
5 mil Code 128	2 in./5.08 cm	10 in./25.4 cm
10 mil Code 128	2 in./5.08 cm	15 in./38.1 cm
15 mil Code 128	2 in./5.08 cm	20 in./50.8 cm
20 mil Code 128	2 in./5.08 cm	24 in./61.0 cm
5 mil DataMatrix	2.5 in./6.35 cm	7.7 in./19.56 cm
10 mil DataMatrix	2 in./5.08 cm	15 in./38.1 cm
15 mil DataMatrix	2 in./5.08 cm	20 in./50.8 cm

- Some features available in a future release. Contact your Zebra Partner or sales representative for more information.
  - Refer to Product Reference Guide for complete list of symbologies.
  - Printing resolution, contrast, illumination source, and ambient light dependent.
- Specifications subject to change without notice.

**PRODUCT SPEC SHEET**

FS10 FIXED INDUSTRIAL SCANNER



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