



FS70 Fixed Industrial Scanner

Completely customizable to meet unique scanning needs

Today more than ever, 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.



The FS70 Fixed Industrial Scanner¹ is your configurable and customizable solution. Easily keep pace with your business, enabling quality control and track-and-trace of every part and package as it moves through production, storage and fulfillment. Whether you need a high-powered lens to read a very small barcode from a long distance, or a wide-angle lens to capture barcodes on extremely large parts, the FS70 addresses it all. C-mount external lenses allow you to achieve the working range and field of view your application and environment requires. And compatibility with virtually any external lighting solution ensures reading of the most challenging barcodes — even low-contrast direct part marks or those printed on curved or reflective surfaces. The result? Best-in-class production, warehousing, distribution and logistics processes that inspire your business to reach its highest potential.

The FS70 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 FS70. Once up and running, Zebra-exclusive features like ImagePerfect+ and PRZM Intelligent Imaging deliver first-time, every-time data capture. As your needs change, easily add support for new codes, increase scanning speed and upgrade to machine vision functionality — all through the simple purchase of software licenses that future-proof your investment. Take your success to the next level with extraordinary visibility into the processes that power your operations — with the FS70, 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.

The FS70 — Enable performance. Inspire potential. Experience the difference with Zebra.

For more information, visit www.zebra.com/fs70

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.

IoT ready with Zebra Savanna™

The IoT-ready FS70 can send images to Zebra's subscription-based cloud service, Zebra Savanna™ — or any other cloud service — allowing you to meet industry regulations or store images for further analysis, all without the need to purchase and manage servers.

Power it all over Ethernet

Reduce setup complexity and cost with support for Power-over-Ethernet (PoE). This standard feature powers the FS70 and attached accessories right over the network, eliminating the cost of power drops and power supplies. Don't have a PoE infrastructure? No problem. You can also power the FS70 with a standard 24V DC power supply or even a standard USB-C port.

Limitless expansion options with USB-C

Ready for a new level of flexibility? USB-C allows you to power your camera with a single cable and provides limitless accessory options. Seamlessly integrate with other Zebra devices such as a printer or tablet. You can also backup your system or save images for future analysis by connecting external storage devices to the FS70.

Easy to deploy

Address complex requirements with your choice of lens and lighting

The FS70 supports any external C-mount lens and any external lighting solution to meet complicated application, environmental and installation requirements. From a wide angle lens to capture a barcode on large parts to a high-powered lens to capture a tiny barcode at a distance, the FS70 provides the complete flexibility you need to address it all.

Programmable input/output (I/O) ports

Get the ultimate in I/O flexibility. Up to nine digital I/O ports can be individually controlled to expand application functionality and improve error-proofing. Support additional peripherals, activate lights, or trigger an action to more fully automate your processes.

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. IP65 and IP67 sealing ratings make the device dust tight and able to withstand high-power wash downs — or even total immersion in water.

Operator feedback/status indicators

With 360° LED lights, your operators can instantly see decode status. Workers can see at a glance if a decode was successful or unsuccessful — protecting product quality and traceability. Five built-in camera status LEDs — Power, Online/Run, Focus Warning, Error and Ethernet Status — make it easy to verify whether cameras are fully 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 or by directly connecting a monitor to the FS70. The need to install a PC at every workstation is eliminated, reducing hardware requirements and installation costs.

Simple, easy and fast integration with your network infrastructure

Built-in Ethernet/IP with Add-On Profile, PROFINET and other network protocols enable painless integration with any common PLC or host system. Network architecture is simplified and deployment time and cost are reduced.

Easy to run

First-time every-time data capture

Zebra's exclusive PRZM Intelligent Imaging technology delivers the reliable data capture you need to keep your operations running at peak capacity. The 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 — from damaged or poorly printed 1D and 2D barcodes on a fast-moving conveyor belt to challenging DPM codes printed on curved and reflective surfaces.

Key Differentiators

The FS70 is loaded with class-leading features, including:

The ultimate in customization

Supports any external C-mount lens and any external lighting

Ideal for complex application, environmental and installation requirements where wide-angle, zoom or other special lensing is needed.

ImagePerfect+

Achieve the highest read rates with perfect images

In one trigger event, capture up to 16 different images, 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.

USB-C

Limitless expansion options

Easily connect all the peripherals you need — from a printer or tablet to an external drive and more.

PoE+

Power it all over Ethernet

Power the FS70 right over your Ethernet cable — no more costly power drops and no more power supplies to purchase and manage.



Zapraszamy do kontaktu!
Więcej informacji: www.kreski.pl

Achieve the highest read rates with perfect images

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+. In one trigger event, this Zebra-exclusive feature captures up to 16 different images, each with its own unique setting for exposure, gain, illumination control and more. The result? Perfect images that enable high read rates. A significant reduction in solution complexity. And a lower total cost of ownership.

Capture all the data that drives your business

Do it all with the FS70 — 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. Just purchase licenses to support additional barcode symbologies, increased scanning speed, or upgrade to a Machine Vision (MV) Toolset to turn your FS70 into a Smart Camera, complete with machine vision capabilities.

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.

Eliminate production delays with Dual Ethernet connections

The FS70 is the only Fixed Industrial Scanner in its class to offer dual Ethernet ports. Completely isolate the Controls Network to protect key production data and utilize a second Ethernet connection to send images to the cloud or local server for storage. Don't need a second Ethernet port? Just choose the single port configuration to pay only for what you need.

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.

Specifications

Physical Characteristics	
Dimensions	2.5 in. H x 3.75 in. D x 2.5 in. W 63.0 mm H x 95.0 mm D x 65.0 mm W
Weight	22.9 oz./650.0 g
Power	10 to 30 VDC external power supply, 36W max at 24V • Class 4 PoE+ source, 25.5W max • Class 3 PoE source, 13W max • USB Type-C host, 7.5W max at 5V, 1.5A or 15W max at 5V, 3.0A
Configurable IO	(4) Four opto-isolated GPIO: GPIO0,1,2,3 (5) Five non-isolated GPIO: GPIO4,5,6*,7*,8* *Unavailable when External Light Mode is enabled
Color and Material	Industrial green aluminum housing
Interface Ports	(2) M12 X-Coded 1000/100/10 Mbps Ethernet* (1) M12 12-pin Power/GPIO/RS-232 (1) M12 5-pin External Light Power & Control/GPIO (1) 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	Ethernet/IP, PROFINET, CC-Link, Modbus TCP, TCP/IP
Keyboard Support	Supports over 90 international keyboards
User Indicators	360° Degree Decode/Job Status LEDs, Power LED, Online/Run LED, Focus Warning LED, Error LED, Ethernet Status LED; Beeper

Performance Characteristics	
Image Sensor	Monochrome: 2.3 MP (1920 x 1200 pixels) CMOS Sensor with Global Shutter and 3.0 um pixel size Monochrome: 5.1 MP (2600 x 1952 pixels) CMOS Sensor with Global Shutter and 2.2 um pixel size Color: 2.3 MP (1920 x 1200 pixels) CMOS Sensor with Global Shutter and 3.0 um pixel size Color: 5.1 MP (2591 x 1944 pixels) CMOS Sensor with Global Shutter and 3.0 um pixel size
Acquisition Rate	Up to 60 frames/second
Illumination	Supports many standard external illumination system while powered by 24VDC supply
Imager Field of View	Flexible; dependent upon C-mount lens selection
User Environment	
Operating Temp.	32° F to 113° F/0° C to 45° C (10-30VDC external power supply, duty cycle-dependent) 32° F to 113° F/0° C to 40° C (POE, duty cycle-dependent)
Storage Temp.	-40° F to 158° F/-40° C to 70° C
Environmental Sealing	IP65 and IP67
Humidity	5% to 90% RH, non-condensing

Introducing the Fixed Industrial Scanner and Machine Vision Portfolio



FS10



FS20/VS20



FS40/VS40



FS70/VS70

Specifications

User Environment (continued)	
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 ²	
1D	Base 32 (Italian Pharma), Codabar/NW7, Code 11, Code 39, Code 93, Code 128, GS1 DataBar, I 2 of 5, UPC/EAN, DPM
2D	Aztec, Composite Codes, DataMatrix, Dotted DataMatrix, DotCode, MaxiCode, PDF417, Micro PDF417, QR Code, Micro QR, DPM
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 Lite and OCR (5 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.)
Machine Vision (MV) Toolsets	Sensor, Standard, Advanced (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: www.zebra.com/doc

Accessories

C-Mount lenses, C-mount filters, lens covers, external illumination, brackets, cables, power supplies

Warranty

Subject to the terms of Zebra's hardware warranty statement, the FS70 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: www.zebra.com/warranty

Recommended Services

Zebra OneCare Select; Zebra OneCare Essential

Footnotes

1. Some features available in a future release. Contact your Zebra Partner or sales representative for more information.
2. Refer to Product Reference Guide for complete list of symbolologies.
3. Printing resolution, contrast, and ambient light dependent.

Specifications subject to change without notice.



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