

FUZZYSCAN S690 SERIES

Innovative Single-Plane Scanner



A Small-Footprint Single-Plane Scanner

Equipped with a purpose-built optical system featuring a 1.3M global-shutter image sensor, the S690 offers a super-large FOV and exceptional motion tolerance. To meet modern retail needs, its hybrid model can easily read most RFID tags using the integrated **RFID** reader. In addition, with NFC reading capability, it supports **NFC** tags, cards, and NFC-enabled devices, expanding the scanner's overall functionality. Moreover, **Wi-Fi** or **Bluetooth** connectivity can be achieved effortlessly by working with the IoT Smart Cable. Thanks to its innovative integrated design, it helps businesses accelerate checkout and enhance productivity across industries such as retail, hospitality, logistics, healthcare, and entertainment. The S690 takes simplicity to the next level, reducing total cost of ownership and management overhead to give your business a competitive edge.

- Cino's exclusive imaging technology powered by AI
- A super-large scanning field
- Fast scanning speed for swipe-and-go efficiency
- 1.3-megapixel global shutter image sensor
- Instant activation with IR proximity sensing
- Wi-Fi or Bluetooth connectivity via IoT smart cable
- MRZ OCR reading supported
- Integrated UHF RFID reader
- Built-in NFC reader
- Flexible Stand with a 135°adjustable range
- Optional magnetic kit for flexible installation
- Super-loud audio feedback
- Custom data processing and scanner operation through DataWizard

Scan All Your Needs

Thanks to its purpose-built optical system and a 1.3-megapixel global-shutter image sensor, the S690 Series offers excellent reading performance as a cost-effective alternative to single-plane scanners. Its super-large field of view and exceptional motion tolerance enable seamless checkout operations, making it the best companion for convenience stores, supermarkets, and other retail environments.

AI-Driven Imaging Technology

Powered by Cino's exclusive imaging technology, the S690 Series delivers outstanding reading performance across a wide range of challenging real-world barcodes, including those that are wrinkled, poorly printed, low-contrast, or partially damaged.

Super-Large Field of View

The S690 provides a field of view approximately **2.5 times** larger than conventional scanners, enabling rapid scanning and enhancing user convenience. Furthermore, it allows barcodes to be captured from various angles without precise alignment.

Swipe-and-Go Efficiency

Thanks to its **120 FPS** fast scanning rate with exceptional motion tolerance, the S690 Series delivers a "swipe-and-go" experience that enhances both usability and productivity.



Supermarket



Convenience Store



Logistics



Tailor-Made Colors

Integrated RFID Reader

To meet today's modern retail needs, the S690 hybrid model can read both barcodes and RFID tags simultaneously. It enables retailers to integrate data from both sources for more accurate inventory control and real-time product traceability, helping businesses prevent theft and minimize shrinkage.

MRZ OCR Reading

With the MRZ OCR reading capability, the S690 ensures fast and accurate OCR recognition for both ID cards and passports. It streamlines workflows, reduces manual data entry and improves the overall customer experience.

Built-in NFC Reader

The S690 features a built-in NFC reader that supports short-range communication with NFC tags, cards (such as credit or access cards), and other NFC-enabled devices. This capability makes it easy for applications like payment, identification, access control, and ticketing, expanding the scanner's overall functionality.

Ultimate Usability

The S690 Series is equipped with a range of features that make scanning tasks smooth and effortless, allowing both experienced operators and new cashiers to capture barcodes quickly and accurately.

Compact Design for Any Retail Space

The S690 Series features a small-footprint design, making it ideal for scanning in various space-constrained areas such as small checkout counters. Its sleek and compact form factor seamlessly integrates into a variety of environments, from stylish boutiques to everyday convenience stores.

Responsive Activation

Equipped with an IR proximity sensor, the S690 automatically activates the illumination when an object approaches the near-field zone, preventing discomfort to the user's eyes caused by direct illumination. For different application scenarios, motion sensing and image proximity sensing are available to fulfill your desired activation requirements.

Wireless Connectivity

By working with the IoT Smart Cable, the S690 connects seamlessly to any Wi-Fi or Bluetooth-enabled hosts for reliable wireless data transmission. Businesses can count on it to scan with enhanced mobility and flexibility.

Flexible Stand

The ingeniously engineered stand grants the S690 an ultra-wide adjustable angle, from 45° forward to 90° backward. In addition, an optional magnet kit offers a way to mount the S690 on counters or walls, keeping it stable and safe from accidental drops.

Super-Loud Audio Feedback

The S690 Series provides both audio and visual feedback. With a super-loud and programmable speaker, users can tailor the beeps to their needs, while high-volume tones ensure reliable performance in noisy environments.



DataWizard

Exceptional Value

Cino's Fuzzyscan DNA integrates advanced, practical innovations into every Cino scanners. Powered by this superior technology, the S690 Series delivers exceptional intelligence, flexibility and performance that goes far beyond basic scanning.

DataWizard – Custom Data Processing and Scanner Feedback

A powerful feature that allows advanced formatting on GS1 and UDI data. By using data scripts, it is able to perform sophisticated data validation and complex data processing, such as US driver's license parsing or medical data parsing.

iCode – One Step to Configure Everything

A useful macro command barcode that enables configuration with one single scan

Multilingual Edge – Output Data to Various Languages

A comprehensive feature for converting data output into your desired language

Smart Scenes – Quick Adaptation to Diverse Applications

A series of preset configurations that enable easy adaptation to specific scenarios.

Tailored Bezel Colors to Strengthen Brand Identity

Customizable bezel colors that suit the design of various checkout counters

SPECIFICATIONS

Performance Characteristics

Image Sensor	1280 x 1080 Pixels
Print Contrast	15% minimum reflective difference
Light Source	Warm white LED
Imager Field of View	73.2° H x 63.8° V
Min. Resolution	3.0 mil Code39, 6.0 mil DM/QR
Reading Range ¹	13 mil UPC/EAN up to 10.8"
Roll, Pitch, Skew	Roll: 360°; Pitch: ± 75°; Skew: ± 65°
Motion Tolerance	Steadily read over 460 cm/s, with max. speed up to 920 cm/s (362 in/s)
Configuration Setup	FuzzyScan Barcode Commands FuzzyScan iCode FuzzyScan PowerTool
Host Interfaces	USB HID (USB Keyboard) USB VCOM (USB COM port emulation) Standard RS232 Bluetooth HID and SPP (via IoT Smart Cable) Wi-Fi (via IoT Smart Cable)
Data Processing	DataWizard
Image Capture	BMP or JPEG format

Physical & Electrical Characteristics

Dimensions	90.4 mm (L) x 90.1 mm (W) x 148.5 mm (D)
Weight	150g (cable excluded)
Color	Coffee Black, Ivory White
User Indications	LEDs for power, good read and status indications, Programmable speaker
Operating Voltage	5VDC ± 10%
Operating Current	Operating: Typical 462 mA@5VDC Standby: Typical 229 mA@5VDC

1. The Reading Range are measured under Cino's test environmental condition.
2. Codablock F, Code 49, Han Xin Code, and DotCode are available upon request.
3. MICR-E13B and US Currency are available upon request.
4. Don't stare into the LED beam.

Decode Capabilities

1D Linear Codes	Code 39, Code 39 Full ASCII, Code 32, Code 128, GS1-128, Codabar, Code 11, Code 93, GS1 DataBar, Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5, IATA, UPC/EAN/JAN, UPC/EAN/JAN with Addendum, Telepen, MSI/Plessey & UK/Plessey
2D Codes ²	PDF417, Micro PDF417, Composite Codes, DataMatrix, MaxiCode, QR Code, MicroQR, Aztec, Codablock F, Code 16K, Code 49, Han Xin Code, DotCode
Postal Codes	Australian Post, US Planet, US POSTNET, Japan Post, Posi LAPA 4 State Code, German Post, British Post, Intelligent Mail, Korean Post, Dutch KIX Post, China Post
OCR ³	OCR A/B, MICRE13B, US Currency

RFID

Frequency	US: 902~928 MHz EU: 865~868 MHz
Standards Supported	EPC Class 1 Gen2; ISO 18000-6C

NFC

Frequency	13.56MHz
Protocol Supported	ISO/IEC 14443 Type A/B ISO/IEC 15693
Read Range	Up to 10cm

User Environment

Drop Specifications	Withstands drops from 1.5m (5ft) to concrete
Environmental Sealing	IP52
Operating Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Humidity	5% to 95% relative humidity, non-condensing
Ambient Light Immunity	0 ~ 106,000 Lux
ESD Protection	Functional after ±15 KV direct air discharge

Safety & Regulatory

EMC	CE, UKCA, FCC, BSMI, RCM, KC, VCCI
LED Safety ⁴	IEC 62471/EN 62471, Exempt Group
Environmental	Compliant with RoHS 2.0 and REACH

Accessories

Cables	RS232 Cable USB-A Cable USB-C Cable IoT Smart Cable (Wireless Connectivity)
Others	Magnetic Kit 5Vdc Power Supply Unit USB Power Cable

