

Diebold Nixdorf S3200

2D Multi-Plane Full-Image Bioptic Scanner/Scale



The Diebold Nixdorf S3200 sets a new benchmark for fast, intuitive and future ready checkout experiences. Its advanced multi plane imaging, optional vision features and low energy design make it the ideal platform for modern retail environments.

Elevate Every Checkout Moment

Customers expect a quick and seamless checkout journey. The S3200 delivers exceptional scanning performance and simple, intuitive operation, ensuring smooth transactions across Diebold Nixdorf self-service and EPOS store installations. Its efficient design helps reduce shrink and integrates effortlessly into existing DN Series EASY and EPOS environments.

Superior Imaging for Improved Scan Performance

Powered by high resolution imaging technology, the S3200 reads all common 1D, 2D, GS1 and Digimarc barcodes with impressive speed and accuracy. Even poorly printed or mobile barcodes are decoded reliably, supported by intelligent illumination that minimizes rescans and accelerates throughput.

Ready for the Rise of 2D & GS1 Digital Link

As retailers adopt information rich 2D barcode standards, the S3200 ensures they remain prepared. Enhanced decoding performance and enlarged fields of view maintain the familiar "swipe and go" experience, reducing the need for precise barcode alignment and making operation simple for DN Series EASY self-checkout users as well as for cashiers in traditional EPOS environments.

New Possibilities With Smart Vision

With an optional integrated HD color camera, the S3200 is prepared for advanced computer-vision applications such as produce recognition, transaction validation and improved loss prevention. These capabilities enhance operational transparency, reduce interventions and create a smoother, more secure customer experience.



High-Performance 2D Scanner at a Glance

- Suitable for use in self-service, food retail stores, supermarkets and wholesale environments
- Recognition of all common linear 1D, 2D, GS1 DataBar™ and Digimarc® barcodes
- Omnidirectional barcode capture from paper labels and smartphones
- Advanced intelligent illumination system with item-triggered activation
- Optimized optical design for fast, intuitive scanning
- Optional integration of a high-performance checkout scale
- Excellent scanning performance even for worn or reflective barcodes
- USB port for service access and remote software administration
- Optional customer-facing 2D scanner for mobile coupons and loyalty cards
- Easy integration into existing checkout installations
- Multiple interface options including USB, RS232 and Powered USB
- Low power consumption with energy-efficient illumination control
- Fully supported by the BEETLE POS platform
- "Plug & Play" compatibility with Diebold Nixdorf ProBase Store
- **Global Deployment & Implementation Services:** Smooth installation and integration into existing store environments
- **Maintenance Services:** Fast recovery, predictive diagnostics and security services
- **Managed Services:** Store lifecycle management, transformational outsourcing and retail consulting services

SERVICE OPTIONS

Tailored Diebold Nixdorf services ensure efficient deployment, high system availability and long-term operational security through the AllConnect ServicesSM platform:

SYSTEM VERSIONS

- Multi-plane 2D full-image bioptic scanner (medium variants)
- Multi-plane 2D full-image bioptic scanner with integrated scale (medium variants)

REGULATORY COMPLIANCE

Environmental: EN IEC 63000:2018

Electrical Safety: UL 62368-1; CAN/CSA-C22.2 No. 62368-1-14; IEC 62368-1; EN 62368-1

LED Safety: IEC 62471; EN 62471

EMI/RFI: 47 CFR Part 15, Subpart B, Class B; ICES-003 Issue 7, Class B; EN55032, EN55024, EN55035; EN61000-3-2; EN61000-3-3

MARKETS AND APPLICATIONS

Retail Environments

- Grocery
- Supermarkets / hypermarkets
- Mass merchandisers
- Discount stores
- Warehouse clubs
- Pharmacies
- Self-checkout systems in any retail format

Application Areas

- Manned and self-checkout point of sale
- Paper and mobile barcode scanning
- Produce identification
- Loss-prevention workflows
- Age-verification processes
- EAS support
- Loyalty and coupon applications
- Vision-based applications (with optional camera)

OPTIONAL COLOR CAMERA

- HD resolution
- USB 3 Type-C interface
- Configurable upper (down-facing) or lower (up-facing) orientation
- Supported formats: Bitmap, JPEG, RAW
- White LED illumination

SYMBOL DECODE CAPABILITY

1D Barcodes

Supports all major 1D symbologies, including: Code 39, Code 128, Code 93, Codabar/NW7, Code 11, MSI Plessey, UPC/EAN, Interleaved 2 of 5, Korean 3 of 5, GS1 DataBar™, Base 32 (Italian Pharma)

2D Barcodes

PDF417, MicroPDF417, Composite Codes, TLC-39, Aztec, DataMatrix, MaxiCode, QR Code, Micro QR, Han Xin, Postal Codes, SecurPharm, and GS1 Digital Link

Watermarking

- Digimarc® supported

Minimum Input Resolution

- Code 39: 3.0 mil
- Code 128: 3.0 mil
- DataMatrix: 5.0 mil
- QR Code: 5.0 mil

ACCESSORIES

- Customer-facing scanner
- Single-head or dual-head scale displays

LOSS PREVENTION FEATURES

- EAS compatibility (Nedap®, Checkpoint® and Sensormatic® supported)
- Optional EAS interlock connection
- Optional color camera for video/image-based validation
- Front and top “Good Decode” LED indicators

PHYSICAL CHARACTERISTICS

Dimensions (L x W x D x H)

- Medium version: 398 x 292 x 101 x 128 mm

Weight

- Medium scanner: ~5.06 kg
- Medium scanner with scale: ~7.22 kg

Glass Option

- Sapphire glass

SCALE (OPTIONAL)

- Capacity: 30 lb / 15 kg
- Maximum static load: 300 lb / 136 kg
- Supports single-cable protocols

- Compatible with standard POS scale systems
- Weight resolution options:
 - 0–30 lb in 0.01 lb increments
 - 0–15 kg in 5 g increments

USER INTERFACE

- Soft-touch capacitive pads (no mechanical buttons)
- Front and top “Good Decode” LED indicators
- Adjustable-volume speaker
- Four programmable buttons

PORTS

- Shared POS port supporting USB / RS-232 / RS-485
- Three USB peripheral ports
- Two powered RS-232 peripheral ports
- EAS Interlock port
- Remote scale display port
- USB-C port for optional camera

SUPPORTED HOST INTERFACES

- USB
- RS232
- IBM46xx over RS485
- SNAPI-compatible protocols

POWER

- 12V DC from POS interface (USB PlusPower compatible)
- External power supply option (90–264 V, 47–63 Hz)
- Typical Consumption:
 - Idle: ~2.0 W
 - Active: ~2.75 W

USER ENVIRONMENT

- Operating temperature: 0 °C to 40 °C
- Storage temperature: –40 °C to 70 °C
- Humidity: 20–95%, non-condensing
- Environmental sealing: IP5X
- Ambient light immunity:
 - Artificial light: up to 4,842 Lux
 - Sunlight: up to 86,080 Lux

IMAGING TECHNOLOGY

- CMOS array imager
- Intelligent illumination
- Read/scan capability on all sides in every plane

