



Barcode Scanners

Versatile 1D/2D Barcode Scanners

A complete POS solution provider, Star Micronics offers a variety of 1D and 2D barcode scanners to complement its POS printer range. The IP-rated scanner range includes presentation, handheld, and wireless Bluetooth handheld scanners for retail, hospitality, healthcare and many other applications.

Presentation Scanner

► BSD-40U USB Desktop 1D/2D Barcode Scanner

- Reads 1D and 2D Barcodes, Megapixel CMOS sensor
- Captures high-density, high-volume and even distorted printed and screen barcodes
- Simple switch to toggle between paper and screen mode
- Plugs directly into any POS system, including STAR POS printers with USB Hub
- Superior motion tolerance (2.5m/s)
- Large field of view (horizontal 51°, vertical 32°)
- IP52-rated design and 1.2m drop resistance
- Superior CPU for faster parsing of barcodes

Handheld Scanners

► BSH-20U USB Wired Handheld 1D/2D Barcode Scanner

- High-performance CPU captures high-density, high-volume and distorted barcodes
- Plugs directly into any POS system, including Star POS printers with USB Hub
- Scans on paper, uneven media or screen
- 5 scanning modes (level, sense, continuous, pulse, batch)
- Ergonomic, IP42-rated design and 1.2m drop resistance
- CMOS sensor

► BSH-32U USB Wired Handheld 1D/2D Barcode Scanner

- Reads 1D and 2D Barcodes, Megapixel CMOS sensor
- High-density, high-volume and distorted barcodes on paper and screens
- Plugs directly into any POS system, including Star POS printers with USB Hub
- Superior CPU for faster parsing of barcodes
- 5 Scanning modes (trigger, sense, continuous, pulse and batch)
- Lightweight, comfortable design
- IP42-rated design and 1.5m drop resistance
- Scanner Stand included, Auto Presentation Mode option via smart Stand

Wireless Scanners

► BSH-20B Wireless Bluetooth Handheld 1D/2D Barcode Scanner

- High-performance CPU captures high-density, high-volume and distorted barcodes on paper or screen
- Two forms of wireless communication: Bluetooth or USB dongle (included)
- 12 hours of continuous battery use
- 6 scanning modes (level, trigger, sense, continuous, pulse, batch)
- Lightweight, comfortable design
- IP42-rated design and 1.2m drop resistance
- CMOS sensor

► BSH-32B Wireless Bluetooth Handheld 1D/2D Barcode Scanner

- High-resolution CMOS captures high-density, high-volume and distorted barcodes on paper or screen
- 12 hours of continuous battery use
- Two forms of communication: connects directly to the host device via Bluetooth
- low-energy or can be wirelessly connected via the charging cradle
- Superior CPU for faster parsing of barcodes
- IP42-rated design and drop-resistant (1.2m)
- Megapixel CMOS sensor
- Superior CPU for faster parsing of barcodes



Key applications

- ★ **Retail**
POS and self-service checkout, order collections and returns, order tracking, inventory management
- ★ **Hospitality**
Customer check-in and access control, food order tracking, inventory management
- ★ **Healthcare**
Product identification, medication tracking

starSCAN

StarSCAN, included with all Star Micronics scanners, is a Utility compatible with iOS, Android, and Windows platforms. Users can tailor their scanning preferences and configure scanners to specific needs. Developers can further integrate it into applications using the provided SDK.

Versatile Barcode Scanners



BARCODE SCANNERS – SPECIFICATIONS

STAR SCANNER SERIES	BSD-40U	BSH-20U	BSH-32U	BSH-20B	BSH-32B
					
Type	Desktop Barcode Scanner	Wired Handheld Barcode Scanner	Wired Handheld Barcode Scanner	Wireless Handheld Barcode Scanner	Wireless Handheld Barcode Scanner
Sealing	IP52	IP42	IP42	IP42	IP42
Image sensor	1280 x 800 CMOS	640 x 480 CMOS	1280 x 800 CMOS	640 x 480 CMOS	1280 x 800 (megapixel) CMOS
Colour	Black	Black	Black	Black	Black
Resolution	≥3 mil, ≥0.0762mm	≥3 mil, ≥0.0762mm	≥3 mil, ≥0.0762mm	≥3 mil, ≥0.0762mm	≥3 mil, ≥0.0762mm
Symbologies 2D	PDF417, Data Matrix, QR Code, Micro QR Code, Aztec, etc.	PDF417, Micro PDF417, Micro QR Code, QR Code, Data Matrix, Aztec, etc.	PDF417, QR Code, Data Matrix, Aztec, Maxicode, etc.	PDF417, Micro PDF417, QR Code, Data Matrix, Micro QR Code, Aztec, etc.	PDF417, Data Matrix, QR Code, Micro QR Code, Aztec, etc.
Symbologies 1D	Code-11, Code-128, Code-39, GS1-128 (UCC/EAN-128), AIM-128, ISBT-128, Codabar, Code-93, UPC-A, UPC-E, Coupon, GS1 Composite, EAN-8, EAN-13, ISBN, ISSN, Interleaved 2 of 5, Febraban, Matrix 2 of 5, Industrial 25, ITF-6, ITF-14, Standard 25, ChinaPost 25, MSI Plessey, Plessey, GS1 Databar (RSS)	Code-11, Code-128, Code-39, GS1-128 (UCC/EAN-128), AIM-128, ISBT-128, Codabar, Code-93, UPC-A, UPC-E, Coupon, GS1 Composite, EAN-8, EAN-13, ISBN, ISSN, Interleaved 2 of 5, Matrix 2 of 5, Industrial 25, ITF-6, ITF-14, Standard 25, China Post 25, MSI Plessey, Plessey, GS1 Databar (RSS)	EAN-8, EAN-13, UPC-E, UPC-A, Code-128, Coupon, UCC/EAN-128, CodaBar, I2of5, Febraban, ITF14, ITF6, Matrix 25, Code-39, Code-93, ISSN, ISBN, Industrial 25, Standard 25, China Post 25, Plessey, Code-11, MSI Plessey, UCC/EAN Composite, GS1 Databar, Code-49, Code-16K, AIM-128, ISBT-128	Code-11, Code-128, Code-39, GS1-128 (UCC/EAN-128), AIM-128, ISBT-128, Codabar, Code-93, UPC-A, UPC-E, Coupon, GS1 Composite, EAN-8, EAN-13, ISBN, ISSN, Interleaved 2 of 5, Febraban, Matrix 2 of 5, Industrial 25, ITF-6, ITF-14, Standard 25, China Post 25, MSI Plessey, Plessey, GS1 Databar (RSS)	EAN-8, EAN-13, UPC-E, UPC-A, Code-128, Coupon, UCC/EAN-128, CodaBar, I2of5, Febraban, ITF14, ITF6, Matrix 25, Code-39, Code-93, ISSN, ISBN, Industrial 25, Standard 25, China Post 25, Plessey, Code-11, MSI Plessey, UCC/EAN Composite, GS1 Databar, Code-49, Code-16K, AIM-128, ISBT-128
Connectivity	USB or RS-32 with optional cable	USB or RS-32 with optional cable	USB or RS-32 with optional cable	USB, Bluetooth 5.0	USB, Bluetooth 5.0
Dimensions (w x d x h) Weight	82 x 80 x 147mm 297g	146 x 103 x 69mm 125g	113.4 x 71.4 x 158mm 156g	144 x 103 x 69mm 177g	113 x 71 x 158mm 214g
Typical Depth of field	EAN-13: 10-210mm (13 mil) QR Code: 10-180mm (15 mil)	EAN-13: 50-260mm (13 mil) Code 39: 50-115mm (5 mil) PDF 417: 50-120mm (6.7 mil) Data Matrix: 35-125mm (10 mil) QR Code: 30-170mm (15 mil)	EAN-13: 45-510mm (13 mil) Code 39: 75-220mm (5 mil) PDF 417: 70-215mm (6.7 mil) Data Matrix: 50-220mm (10 mil) QR Code: 20-330mm (15 mil)	EAN-13: 50-260mm (13 mil) Code 39: 50-115mm (5 mil) PDF 417: 50-120mm (6.7 mil) Data Matrix: 35-125mm (10 mil) QR Code: 30-170mm (15 mil)	EAN-13: 50-495mm (13 mil) Code 39: 85-220mm (5 mil) PDF 417: 70-215mm (6.7 mil) Data Matrix: 50-220mm (10 mil) QR Code: 20-325mm (15 mil)
Scan Angle	Pitch: ±50°, Roll: 360°, Skew: ±45	Pitch: ±55°, Skew: ±55°, Roll: 360°	Pitch: ±55°, Skew: ±55°, Roll: 360°	Pitch: ±60°, Roll: 360°, Skew: ±60	Pitch: ±55°, Roll: 360°, Skew: ±55
Field of View	Horizontal 51°, Vertical 32°	Horizontal 45°, Vertical 34°	Horizontal 39°, Vertical 24°	Horizontal 45°, Vertical 34°	Horizontal 39°, Vertical 24°
Min Symbol Contrast	25%	20%	25%	20%	25%
Drop Resistance	1.2m	1.2m	1.5m	1.2m	Scanner: 1.2m Cradle: 1m
Warranty	2 years	2 years	2 years	2 years	2 years

Specifications are subject to change without notice.

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