star
Always Leading - Always Innovating

Wireless Handheld Barcode Scanner

BSH-HR2081BT

A global provider of complete POS hardware solutions, Star Micronics is proud to offer the wireless 2D handheld barcode scanner, with a stylish design, long battery life, and reliable wireless transmission.

Equipped with a high-power CPU, this scanner effortlessly captures high-density, high-volume, and distorted barcodes printed on paper or displayed on screen.

Made to last, the scanner features a 2200mAh battery, allowing it to run for up to 12 hours of continuous use. The included USB cable allows for convenient charging, as well.

With the latest Bluetooth 5.0 technology, the wireless handheld scanner effortlessly maintains a reliable wireless connection to transmit data, with communication distances up to 50m.

Durable inside and out, the scanner features an IP42-rated design and a drop-resistant (1.2m) housing with no moving parts. It connects direct to host device.

Ideal for purchase/sales/inventory management, ticket/voucher management, and office automation.

Features:

- **High-Performance**: Powerful CPU captures high-density, high-volume, and distorted barcodes on paper or screen

- **Long Battery Life**: 12 hours of continuous operation (one scan every six seconds)

- **Two Forms of Communication**: Connects directly to the host device via Bluetooth low energy (BLE) or can be wirelessly connected to a Star printer with the USB dongle provided

- **Durable Construction**: IP42-rated design, drop-resistant (1.2m)

- **Scanner Stand Included**

Part of Star's Full Line of POS Accessories

Star Micronics is proud to offer a complete range of POS hardware solutions, including a wide variety of POS accessories like scanners, customer displays, tablet stands and enclosures, and more.

Healthcare ready:

Our white scanners are washable with common household disinfectants without compromising the antimicrobial plastic housing.*

| USB | IP42 | 1.2m DROP | CMOS | 1D | 2D | Bluetooth |

Wireless Handheld Barcode Scanner

star
Always Leading - Always Innovating

Ability to connect to a tablet through Bluetooth

BSH-HR2081BT with stand

Connect to Star printer

Connects to PC/MAC

Washable antimicrobial housing

BSH-HR2081BT Specifications

Performance	Image Sensor		640X480 CMOS
	Illumination		White LED
	Aiming		Red LED (625nm)
	Symbologies	2D	PDF417, MicroPDF417, QRCode, Data Matrix, Micro QR Code, Aztec
		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, China Post 25, MSI-Plessey, Plessey, GS1 Databar(RSS)
		OCR	Passport OCR
	Resolution		≥3mil (Code 128)
	Typical Depth of Field	EAN-13	45mm-260mm (13mil)
		Code 39	45mm-115mm (5mil)
		PDF 417	50mm-120mm (6.67mil)
		Data Matrix	35mm-125mm (6.67mil)
		QR Code	30mm-170mm (15mil)
	Scan Angle		Pitch: ±60°, Roll: 360°, Skew: ±60°
	Field of View		Horizontal 42°, Vertical 28°
	Min. Symbol Contrast		20%
Physical	Interfaces		Bluetooth Low Energy (BLE) or standard Bluetooth USB dongle
	Dimensions (LxWxH)		145x101x68mm
	Weight		167g
	Notification		Beep, LED indicator, Vibration
Environmental	Storage Temperature		-40°C to 70°C (-40°F to 158°F)
	Charge Temperature		0°C to 45°C (32°F to 113°F)
	Humidity		5% ~ 95% (non-condensing)
	Drop		1.2m
	Sealing		IP42
	Disinfectant Ready*1		Washable with common household disinfectants without compromising the antimicrobial plastic housing (White models only)
Wireless	Communication Mode		Synchronous mode, automatic and manual batch mode
	Radio Technology		Bluetooth 5.0 and USB Dongle
	Communication Distance (direct line of sight in open air)	Bluetooth 2.4G	≥50m (150 ft) ≥30m
	Memory Capacity		15000 pieces Code 128 (20 byte of each Code 128)
	Battery		2200 mAh lithium-ion battery

*1 - Antimicrobial properties are only present in white handheld scanners.

The active ingredient in nShield® 20532-Z50 is a broad-spectrum antibacterial agent with action against both Gram-positive and Gram-negative bacteria, as demonstrated in testing at independent laboratories using common industry standards such as JIS Z 2801 and ISO 22196.
It contains inorganic antimicrobial ingredients with high-temperature stability.
The active ingredient (LIFE DS/R-00-1A) in nShield® 20532-Z50 is registered for use as an antimicrobial with the US Environmental Protection Agency (EPA).
nShield® is a registered product of Americhem Co., Ltd.

Description	Model	Part Number
Scanner, Handheld, 1D/2D Imager, Battery Powered, Bluetooth 5.0/BLE/USB Wireless Adapter, Black, Includes Stand, mC-Print and mPOP Compatible	BSH-HR2081BT	37950520
Scanner, Handheld, 1D/2D Imager, Battery Powered, Bluetooth 5.0/BLE/USB Wireless Adapter, Black, Includes Stand, mC-Print and mPOP Compatible	BSH-HR2081 WHT	37950530