

## Star Micronics BSH-20U BLK

# Star Micronics BSH-20U Handheld Wired USB 1D/2D Barcode Scanner

## USER MANUAL

### Introduction

The Star Micronics BSH-20U is a versatile, cost-effective 1D/2D handheld USB barcode scanner designed for efficient and accurate data capture. Equipped with a high-performance CPU, it excels in scanning various barcode types, including high-density, high-volume, and distorted barcodes, whether on paper, uneven media, or digital displays. Its durable construction, featuring an IP42-rated design and 1.2m drop-resistant housing, ensures reliable operation in demanding business environments. This scanner is ideal for a wide range of applications in retail, hospitality, and healthcare sectors, offering seamless plug-and-play functionality with iOS, Android, and Windows devices, and full compatibility with Star's mCollection products like mC-Print2/3 and mPOP.

### Product Features

- **High-Performance Scanning:** Powerful CPU for capturing high-density, high-volume, and distorted barcodes from various surfaces.
- **Durable Construction:** IP42-rated design and 1.2m drop-resistant housing for enhanced longevity.
- **Stylish and Modern Design:** Sleek aesthetic suitable for various business settings.
- **Cost-Efficient 2D Capabilities:** Offers 2D scanning functionality at a competitive price point.
- **Seamless Integration:** Direct plug-and-play compatibility with Star's mCollection Products (mC-Print2/3 and mPOP).

### Package Contents

Please verify that all items are present in the package:

- Star Micronics BSH-20U Barcode Scanner
- USB Cable (attached)
- Adjustable Stand
- Quick Start Guide (if included)

### Setup Instructions

1. **Unpack the Scanner:** Carefully remove the barcode scanner and its accessories from the packaging.
2. **Assemble the Stand (Optional):** If using the included stand, attach the scanner to the stand as per the stand's instructions. The stand allows for hands-free scanning.
3. **Connect to Host Device:** Insert the USB cable of the BSH-20U scanner into an available USB port on your host device (e.g., POS system, computer, tablet). The scanner is plug-and-play and typically does not require additional driver installation for basic functionality on most operating systems (Windows, macOS, Linux, Android, iOS).
4. **Power On:** The scanner will power on automatically once connected via USB. A successful connection is usually indicated by an audible beep and/or a light indicator on the scanner.
5. **Test Functionality:** Open a text editor or a compatible application on your host device. Scan a known barcode. The barcode data should appear in the application.



Image: The Star Micronics BSH-20U barcode scanner shown with its included stand, ready for connection.



Image: The BSH-20U scanner seamlessly integrated into a typical point-of-sale environment, alongside a tablet and a Star Micronics printer.

## Operating Instructions

1. **Handheld Mode:** Hold the scanner comfortably in your hand. Point the scanning window towards the barcode you wish to scan.
2. **Stand Mode:** Place the scanner securely in its stand. The scanner can be configured for continuous scanning or trigger-activated scanning while in the stand.
3. **Aiming and Scanning:** Position the scanner so that the red aiming line or illumination pattern covers the entire barcode. Press the trigger button (if in handheld or trigger-activated stand mode). The scanner will emit a successful scan beep and/or a green light indicator upon successful data capture.
4. **Barcode Types:** The BSH-20U supports both 1D (e.g., UPC/EAN, Code 39, Code 128) and 2D (e.g., QR Code, Data Matrix, PDF417) barcodes.
5. **Scanning Distorted/Damaged Barcodes:** For difficult barcodes, try adjusting the distance and angle of the scanner. The BSH-20U's advanced imaging capabilities are designed to handle such cases effectively.



Image: Demonstrating the handheld operation of the BSH-20U scanner, aiming at a barcode for data capture.

## Maintenance

Proper maintenance ensures the longevity and optimal performance of your Star Micronics BSH-20U barcode scanner.

- **Cleaning the Scanning Window:** Regularly clean the scanning window with a soft, lint-free cloth. If necessary, dampen the cloth slightly with water or a mild, non-abrasive cleaner. Avoid using harsh chemicals, solvents, or abrasive materials, as these can damage the window.
- **Cleaning the Exterior:** Wipe the exterior of the scanner and stand with a soft, damp cloth.
- **Storage:** When not in use, store the scanner in a clean, dry environment, away from direct sunlight and extreme temperatures.
- **Cable Care:** Avoid bending or twisting the USB cable excessively, as this can damage the internal wires.

## Troubleshooting

Problem	Possible Cause	Solution
Scanner does not power on or respond.	USB cable not properly connected or damaged. Insufficient power from USB port.	Ensure the USB cable is securely connected to both the scanner and the host device. Try a different USB port or a different host device.
Scanner does not read barcodes.	Barcode is damaged or poorly printed. Incorrect scanning angle/distance. Scanner settings are not appropriate for the barcode type.	Ensure the barcode is clear and undamaged. Adjust the distance and angle. Refer to the full product manual for advanced configuration options to enable specific barcode symbologies.

Problem	Possible Cause	Solution
Scanned data is incorrect or incomplete.	Barcode partially scanned. Incorrect keyboard layout on host device.	Ensure the entire barcode is covered by the aiming pattern. Verify the keyboard language settings on your host device match the scanner's output.
Scanner beeps but no data appears.	Application not in focus or not ready to receive input.	Click into the text field or application where you expect the data to appear. Ensure the application is active and ready for input.

## Specifications







Feature	Detail
Model Number	BSH-20U BLK
Connectivity Technology	USB Cable
Barcode Compatibility	1D and 2D Barcodes
Compatible Devices	POS Systems, iOS, Android, Windows devices
Power Source	Corded Electric (USB Powered)
Product Dimensions	5.75 x 4.06 x 2.72 inches (14.6 x 10.3 x 6.9 cm)
Item Weight	4.4 ounces (124.7 grams)
Durability Rating	IP42-rated, 1.2m drop resistance
Manufacturer	Star Micronics

## Warranty and Support

For detailed warranty information and technical support, please refer to the official Star Micronics website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

**Star Micronics Official Website:** [www.starmicronics.com](http://www.starmicronics.com)

### Related Documents - BSH-20U BLK

	<p><a href="#">Star Micronics BSH-32U 2D Handheld Barcode Scanner User Guide</a></p> <p>Comprehensive user guide for the Star Micronics BSH-32U 2D Handheld Barcode Scanner, detailing setup, configuration, interfaces, symbologies, and advanced features for efficient barcode scanning.</p>
	<p><a href="#">Star BSH-20B Wireless 2D Hand-held Scanner Quick Start Guide</a></p> <p>Concise quick start guide for the Star BSH-20B Wireless 2D Hand-held Scanner, covering setup, scanning, programming, troubleshooting, and regulatory compliance information.</p>
 <p>BSD-FR4080 Desktop Barcode Scanner User Guide</p>	<p><a href="#">BSD-FR4080 Desktop Barcode Scanner User Guide</a></p> <p>User guide for the Star Micronics BSD-FR4080 desktop barcode scanner. Learn about setup, configuration, USB/RS-232 connectivity, supported symbologies, and advanced data formatting for efficient barcode scanning.</p>
 <p>Line Thermal Printer StarPRNT Command Specifications Rev. 2.25</p>	<p><a href="#">StarPRNT Command Specifications - Star Micronics Technical Manual</a></p> <p>Comprehensive command specifications for StarPRNT line thermal printers from Star Micronics. Details commands for font styles, print modes, barcodes, graphics, and supported models like mPOP, SM-L, SM-S, and mC-Print series.</p>
 <p>CUPS Driver Software Manual for macOS</p> <p>Supported Models • Thermal Printers • Portable Printers • Dot Matrix Printers</p> <p>Rev. 2.1</p>	<p><a href="#">Star CUPS Driver Software Manual for macOS</a></p> <p>This manual provides comprehensive setup procedures and functional outlines for the Star CUPS driver on macOS. It covers installation, uninstallation, printer functions, paper size settings, Ethernet environment guidelines, and IP command usage for various Star Printers, including thermal, portable, and dot matrix models.</p>
 <p>star</p> <p>USER'S MANUAL</p> <p>LC-8211 DOT MATRIX PRINTER</p>	<p><a href="#">Star LC-8211 Dot Matrix Printer User Manual</a></p> <p>Comprehensive guide for the Star LC-8211 dot matrix printer, covering setup, operation, software integration (Windows, MS-DOS), paper handling, and troubleshooting.</p>





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BSH 20U Scanner Spec Sheet Star Micronics Barcode POSGuys bsh 20u handheld scanner spec

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