star
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CMOS | 1D | 2D

USB | 1.2m DROP | IP52
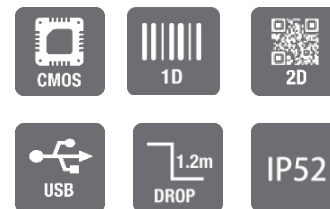
Desktop Barcode Scanner
BSD-FR4080

A global provider of complete POS hardware solutions, Star Micronics is proud to provide the durable and powerful desktop barcode scanner.

Equipped with a high-power CPU, this scanner is capable of reading 1D as well as high-volume 2D barcodes on any screen including screens covered with protective film.

Built for efficiency, the switch at the top of the scanner allows users to quickly toggle between normal mode and high-motion-tolerance mode.

The scanner's exceptional motion tolerance (2.5m/s) and large field of view (horizontal 51°, vertical 32°) further enhances the user experience.

The scanner's featured IR sensor enables speedy capture of barcodes, increasing throughput and productivity.

Durable and built to last, the scanner's IP52-rated design protects it from dust, water, and other contaminants. The scanner can also withstand multiple 1.2m drops to concrete.

Features:

- **Quick Switch Mode**: Effortlessly toggle between normal and high-motion-tolerance modes

- **Superior Motion Tolerance**: 2.5m/s motion tolerance and large field of view (horizontal 51°, vertical 32°)

- **On-Screen Capture**: Captures barcodes on screens covered with protective film

- **Infrared Sensor**: Automatic scanning increases productivity and speed in dark environments or when distance to the barcode changes

- **IP52-Rated Design**: Protected from dust, water, and more

- **CMOS**: Quieter and better performance in low light environments

- **Drop Resistance**: Withstands up to 1.2m drops

- **Can Plug Directly into Star's mCollection Products (mC-Print2/3 & mPOP®)**

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.

Desktop Barcode Scanner

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BSD-FR4080 Tilt 60 Degrees

60° Angle

Small counter footprint

83mm / 3.27in

Switch (LED)

Trigger(Left)   Scan Window

148mm / 5.83in

81mm / 3.19in
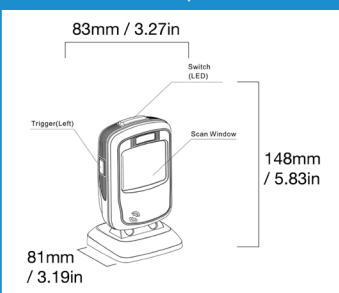
Connects to PC/MAC

Connects to Star printer

BSD-FR4080 Specifications

Category	Spec	Sub	Value
Performance	Image Sensor		1280×800 CMOS
	Illumination		White LED
	Symbologies	2D	PDF417, Data Matrix, QR Code, Micro QR Code, Aztec, etc.
		1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code 128, Code 93, ITF-6, ITF-14, Interleaved 2 of 5, Industrial 25, Standard 25, Matrix 2 of 5, GS1 Databar, Code 39, Code 11, MSI-Plessey, Plessey, etc.
	Resolution		≥3mil
	Typical Depth of Field	EAN-13	10-210mm (13mil)
		QR Code	10-180mm (15mil)
	Motion Tolerance		2.5m/s
	Scan Angle		Pitch: ±50°, Roll: 360°, Skew: ±45°
	Field of View		Horizontal 51°, Vertical 32°
	Min. Symbol Contrast		25%
Mechanical/ Electrical	Interfaces		USB
	Dimensions		83(W)×81(D)×148(H)mm
	Weight		293g
	Notification		Beep, LED indicator
Environmental	Storage Temperature		-40°C to 70°C (-40°F to 158°F)
	Humidity		5%~95% (non-condensing)
	Drop		1.2m drops to concrete (for six sides, one drop per side)
	Sealing		IP52
Certifications			FCC Part15 Class B, CE EMC Class B
Included	Cable	USB	Used to connect the scanner to a Star printer or host device.

Description	Model	Part Number
Scanner, Desktop, 1D/2D Imager, USB Cable, Black, mC-Print and mPOP Compatible	BSD-FR4080	37950440