Newland AIDC
SCANNING MADE SIMPLE



BS80 Piranha II 2D

General Purpose Handheld Scanners

1.2m drop | 1D & 2D | Bluetooth 4.0 | CMOS | EasySet | IP42

Laser Aimer | Megapixel | Warranty 3 Years



Features

Superior Reading Performance
The BS80 Piranha II is offered in 2 versions, containing a 1D or a 1D+2D barcode scanning engine. Both of these engines read virtually any barcode from paper or screen. The 2D device has been equipped with a laser aimer with a red cross to make barcode reading easier and faster.

Easy Bluetooth Pairing
With Bluetooth 4.0 wireless technology, the BS80 Piranha II enables effortless pairing to any Android, iOS, or Windows device, making it simple and convenient for users to transmit data.

Seamless Barcode Capture and Storage
Offering versatile barcode scanning capabilities, the BS80 Piranha II enables fast real-time scanning with seamless data transfer to the host via Bluetooth. However, users can also take advantage of the 1MB memory when operating in batch collection mode, which can store thousands of barcodes offline for subsequent download via Bluetooth or cable.

Edits On the Go
The BS80 Piranha II boasts not only a reliable scan button but also two extra buttons for convenient data editing. For data collection mode, the Delete button allows users to quickly rectify scanning errors by deleting the last scanned barcode. Meanwhile, the Function button serves as a virtual keyboard recall feature, enabling manual data input on a wide range of host devices, including iOS products. This makes the BS80 Piranha II an ideal companion for all your data collection needs.

Versatile Charging & Communication
The BS80 Piranha II features a fast and reliable USB-C port that can be used both for charging and establishing a connection to a host to download data or access the EasySet configuration software. In addition, the device also supports the use of pogo pins to charge via the cradle.

3 Years Full Warranty

EasySet

TECHNICAL SPECIFICATIONS

BS80 Piranha II 2D

Data Capture

1D	All major 1D symbologies, including Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, ISSN, Interleaved 2 of 5, ISBN, Code 93, UCC/EAN-128, GS1 Databar, etc.
2D	All major 2D symbologies, including PDF417, QR Code, Data Matrix, etc.
Depth of Field Code 128 (10mil)	38 mm - 411 mm
Depth of Field Code 39 (5mil)	65 mm - 260 mm
Depth of Field DataMatrix (10mil)	40 mm - 250 mm
Depth of Field EAN 13 (13mil)	50 mm - 540 mm
Depth of Field QR (15mil)	20 mm - 320 mm
Image Sensor	1280 x 800 CMOS
Minimal Print Contrast	20%
Resolution	≥5mil
Scan Angle Pitch	±60°
Scan Angle Roll	360°
Scan Angle Skew	±60°

Physical

Battery Type	3.7 V, 900 mA, Rechargeable Li-ion battery
Current @ 5VDC Operating	280 mA (Bluetooth is on)
Current @ 5VDC Standby	11 mA
Dimensions	88(W) × 46(D) × 24.5(H) mm
Expected Battery Life	5 hours of continuous operation (scan once per 6s)
Interfaces	USB-C
Notifications	Beep, LED, Vibration
Weight	63 g

Wireless

Radio Technology	2.4 - 2.5 GHz ISM band, compatible with Bluetooth 4.0/3.0/2.1+EDR
Wireless Distance (max.)	50 m (open space)

Environmental

Charge Temperature	0°C to 45°C (32°F to 113°F)
Drop	1.2 m
Electro Static Discharge (ESD)	±4 kV (direct discharge), ±12 kV (air discharge)
Humidity	5% to 95% (non-condensing)
IP Rating	IP42
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)

Software

Configuration Tools	EasySet

Certifications	
Certifications Hardware	CE RED, IEC 62471, CE UK, FCC, TELEC, RoHS, IEC 60825
Warranty	
Comprehensive Service Contract	3 Years, 5 Years
Warranty Extension	+2 Years
Warranty Standard	3 Years
Accessories	
Accessories Optional	Fast charging power adapter, Charging and communication cradle
Accessories Standard	USB-C cable
What's in the box?	
NLS-BS8080-2D	BS80 Piranha 2D, USB-C cable

Accessories

Charging/Power	AD60-D-M Power Supply with Multiplug Adapter (AD60-D-M) ADP710 Power Supply for Mobile Computers (ADP710)
Cables	CBL-TC-N7 USB to USB-C Cable (CBL-TC-N7)
Base Stations	NLS-CCC-BS80-01 Charging and Communication Cradle for BS80 Series (NLS-CCC-BS80-01)

Newland AIDC EMEA
SCANNING MADE SIMPLE

Newland AIDC EMEA
Feel free to contact us or a partner near you.
info@newland-id.com - newland-id.com

Specifications are subject to change without notice
© Newland AIDC EMEA 2026 - All rights reserved